CONTRACT NUMBER: DAAA15-90-D-0014
DELIVERY ORDER NO 012

FINAL REPORT

AIR POLLUTION EMISSION STATEMENT FOR

SENECA ARMY DEPOT ACTIVITY

NEW YORK

Volume II

SUBMITTED TO:

U.S. ARMY ENVIRONMENTAL CENTER
ABERDEEN PROVING GROUND, MARYLAND 21010-5401

SUBMITTED BY:

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GEOMET Report No. EA-2738

September 23, 1994

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....N/A

Unit ID #.....1 active unit

Location.....Bldg 6

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....#2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....350,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....N/A

Unit ID #.....2 active units

Location.....Bldg 101

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....#2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....150,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....N/A

Unit ID #.....1 active unit

Location.....Bldg 103

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....#2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....350,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 104

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 106

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 250,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 106a

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 70,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 113

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 250,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....N/A

Unit ID #.....1 active unit

Location.....Bldg 114

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....#2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... Steam Cleaner

Location..... Bldg 117

Permit #.....

POC..... Jack LaBour

Inventoried by..... T. Sletten

Phone..... (607) 869-1396

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use..... 60 gallons (units)

Rated Capacity..... 70,000 - 420,000 Btu/hr (units)

Max Heat Input..... (units)

Operating Schedule
Hours/day..... 3 hr/wk
Days/week.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... 1.5 %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Date Temp. Rev: 9/2/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001162500	lb/day
NOx Emissions	0.0029347826	lb/day
CO Emissions	0.0008152174	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000213900	ton/yr
NOx Emissions	0.0005400000	ton/yr
CO Emissions	0.0001500000	ton/yr
SO2 Emissions	0.0021300000	ton/yr
PM10 Emissions	0.0000412500	ton/yr
Total Particulate	0.0000750000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0000352800
Beryllium Compounds	0	0.0000210000
Cadmium Compounds	0	0.0000924000
Chromium Compounds	0	0.0005628000
Lead Compounds	0	0.0000747600
Mercury Compounds	0	0.0000252000
Manganese Compounds	0	0.0001176000
Nickel Compounds	0	0.0014280000
Polycylic Organic Matter	0	N/A
Formaldehyde	50-00-0	N/A
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	0.0023520000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	9/14/94
Location:	Bldg 117	Initials:	MJO
ID Number:	Steam Cleaner	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.245	MMBTU/hr	
TOTAL FUEL USED	60	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 0.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	0.15	lbs/year
PARTICULATE EMISSIONS (PM10)	0.08	lbs/year
SULFUR DIOXIDE EMISSIONS	4.26	lbs/year
CARBON MONOXIDE EMISSIONS	0.30	lbs/year
VOC EMISSIONS (NON METHANE)	0.04	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	1.08	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X = 1%, if default fuel oil grade is #2, and X = 4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS > 100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

:stillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	0.04	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	3.53E-05	E
Beryllium Compounds	0	2.10E-05	E
Cadmium Compounds	0	9.24E-05	E
Chromium Compounds	0	5.63E-04	E
Lead Compounds	0	7.48E-05	E
Mercury Compounds	0	2.52E-05	E
Manganese Compounds	0	1.18E-04	E
Nickel Compounds	0	1.43E-03	E
Polycylic Organic Matter	0	N/A	E
Formaldehyde	50-00-0	N/A	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	2.35E-03	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... Steam Cleaner

Location..... Bldg 118

Permit #.....

POC..... Jack LaBour

Inventoried by..... T. Sletten

Phone..... (607) 869-1396

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use..... 60 gallons (units)

Rated Capacity..... 70,000 - 420,000 Btu/hr (units)

Operating Schedule
Hours/day..... 3 hr/wk
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... 1.5 %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 9/2/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001162500	lb/day
NOx Emissions	0.0029347826	lb/day
CO Emissions	0.0008152174	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000213900	ton/yr
NOx Emissions	0.0005400000	ton/yr
CO Emissions	0.0001500000	ton/yr
SO2 Emissions	0.0021300000	ton/yr
PM10 Emissions	0.0000412500	ton/yr
Total Particulate	0.0000750000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0000352800
Beryllium Compounds	0	0.0000210000
Cadmium Compounds	0	0.0000924000
Chromium Compounds	0	0.0005628000
Lead Compounds	0	0.0000747600
Mercury Compounds	0	0.0000252000
Manganese Compounds	0	0.0001176000
Nickel Compounds	0	0.0014280000
Polycylic Organic Matter	0	N/A
Formaldehyde	50-00-0	N/A
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	0.0023520000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack?

Stack Sampling report available? (Y/ N, results ?)

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION

Federal and New York State Regulations

(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	9/14/94
Location:	Bldg 118	Initials:	MJO
ID Number:	Steam Cleaner	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.245	MMBTU/hr	
TOTAL FUEL USED	60	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"

SULFUR CONTENT	**0.5**	**ACTUAL % SULFUR**
BOILER FIRING METHOD	OTHER	(TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	0.15	lbs/year
PARTICULATE EMISSIONS (PM10)	0.08	lbs/year
SULFUR DIOXIDE EMISSIONS	4.26	lbs/year
CARBON MONOXIDE EMISSIONS	0.30	lbs/year
VOC EMISSIONS (NON METHANE)	0.04	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	1.08	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:

N/A: NOT AVAILABLE

X: Default value of sulfur content of fuel. X = 1%, if default fuel oil grade is #2, and X = 4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)

DATA QUALITY: A

^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS > 100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

stillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	0.04	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	3.53E-05	E
Beryllium Compounds	0	2.10E-05	E
Cadmium Compounds	0	9.24E-05	E
Chromium Compounds	0	5.63E-04	E
Lead Compounds	0	7.48E-05	E
Mercury Compounds	0	2.52E-05	E
Manganese Compounds	0	1.18E-04	E
Nickel Compounds	0	1.43E-03	E
Polycylic Organic Matter	0	N/A	E
Formaldehyde	50-00-0	N/A	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	2.35E-03	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-03-004-02

Unit ID #.....2 active units

Location.....Bldg 121

Permit #.....00121

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....American Standard Kewanee

Fuel Type.....#6 Fuel Oil

Date Installed.....

Annual Fuel Use.....See comments (units)

Rated Capacity.....6,600,000 Btu/hr (each) (units)

Operating Schedule
Hours/day.....24
Days/week.....212 days/yr

Max Heat Input.....(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1714345109	lb/day
NOx Emissions	8.3441576087	lb/day
CO Emissions	0.7585597826	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0315439500	ton/yr
NOx Emissions	1.5353250000	ton/yr
CO Emissions	0.1395750000	ton/yr
SO2 Emissions	6.5739825000	ton/yr
PM10 Emissions	0.2943106365	ton/yr
Total Particulate	0.4746945750	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	0.3852270000
Arsenic Compounds	0	0.9546930000
Beryllium Compounds	0	0.0351729000
Cadmium Compounds	0	1.7670195000
Chromium Compounds	0	1.0719360000
Lead Compounds	0	1.6246530000
Mercury Compounds	0	0.2679840000
Manganese Compounds	0	0.6197130000
Nickel Compounds	0	19.5125850000
Polycylic Organic Matter	0	0.0703458000
Formaldehyde	50-00-0	3.3916725000
Selenium Compounds	0	0.3182310000
Cobalt Compounds	0	1.0133145000
Copper Compounds*	0	2.3448600000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Heig	117.00	feet	Stack Gas Velocity	3.1	ft/sec
Stack Diameter	63	inch	Stack Gas Flow Rate	4,000	ascf/min
			Stack Gas Temperature	350	oF

Other sources that share this stack? There are two identical boilers sharing the same stack.

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

Annual Fiuel Use: 38,955 Jan-May, 16,875 Oct-Dec, 55,830 Total Use

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 121	Initials:	DCP
ID Number:	2 active units	SCC:	1-03-004-01

INPUT DATA

SIZE OF BOILER	6.6	MMBTU/hr	
TOTAL FUEL USED	55,830	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	6	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 1.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	949.39	lbs/year
PARTICULATE EMISSIONS (PM10)	588.62	lbs/year
SULFUR DIOXIDE EMISSIONS	13147.97	lbs/year
CARBON MONOXIDE EMISSIONS	279.15	lbs/year
VOC EMISSIONS (NON METHANE)	63.09	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	3070.65	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	63.09	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	33.38	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	3.85E-01	E
Arsenic Compounds	0	9.55E-01	E
Beryllium Compounds	0	3.52E-02	E
Cadmium Compounds	0	1.77E+00	E
Chromium Compounds	0	1.07E+00	E
Lead Compounds	0	1.62E+00	E
Mercury Compounds	0	2.68E-01	E
Manganese Compounds	0	6.20E-01	E
Nickel Compounds	0	1.95E+01	E
Polycylic Organic Matter	0	7.03E-02	E
Formaldehyde	50-00-0	3.39E+00	E
Selenium Compounds	0	3.18E-01	E
Copper compounds*	0	2.34E+00	
Cobalt Compounds	0	1.01E+00	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 126

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 138

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Propane

Date Installed.....

Annual Fuel Use..... 2,640 gal (units)

Rated Capacity..... 138,000 Btu/hr (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

1993	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	341	616	484	230	183	54	15	30	0	214	311	162

Indicate Units: gal

Total Annual Use: 2,640

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0005380435	lb/day
NOx Emissions	0.0150652174	lb/day
CO Emissions	0.0020445652	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0006600000	ton/yr
NOx Emissions	0.0184800000	ton/yr
CO Emissions	0.0025080000	ton/yr
SO2 Emissions	0.0019800000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0005280000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

COMMENTS

EMISSIONS FOR LIQUIFIED PETROLEUM GAS COMBUSTION
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/25/94
Location:	Bldg 138	Inititals:	DCP
ID Number:	1 active unit	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.138	MMBTU/hr	
TOTAL FUEL USED	2,640	gal/year	
OZONE SEASON FUEL USAGE	99	gal/year	(Enter N/A if not known,and zero if no ozone season use)

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT x Default Sulfur (15 Grains/100 cu ft)

FUEL TYPE propane (BUTANE/PROPANE)
(Note if fuel type is not Butane or Propane furthur research is needed)

SOLUTION

PARTICULATE EMISSIONS (TSP)	1.06 LBS/YR
SULFUR OXIDE EMISSIONS (as SO2)	3.96 LBS/YR
CARBON MONOXIDE EMISSIONS	5.02 LBS/YR
VOC EMISSIONS	1.32 LBS/YR
NITROGEN OXIDE EMISSIONS (as NO2)	36.96 LBS/YR

REFERENCES: Criteria Pollutant Emission Factors are from AP-42, Vol 1, Section 1.5, Table 1.5-1, dated 10/92.

SULFUR DEFAULT OF 15 GRAINS/100 CUBIC FT IS AN ASTM SPECIFICATION FROM AEHA

VOC emissions are reported as Total Organic Matter (TOM) in AP-42. TOM includes Methane and Non-methane

NOTES: Industrial Furnace > 10 MMBTU/hr
Commercial & Domestic Boiler < 10 MMBTU/hr

* If ozone season usage is not known, it is assumed to be 25% of the total annual usage

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 142

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 350,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 308

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 200,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 1-03-005-01

Unit ID #..... 1 active unit

Location..... Bldg 309

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 500,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-02-004-02

Unit ID #.....1 active unit

Location.....Bldg 319

Permit #.....00319

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....International WT Type FD 18-356

Fuel Type.....No. 6 Fuel Oil

Date Installed.....

Annual Fuel Use.....See comments (units)

Rated Capacity.....12,000,000 Btu/hr (units)

Operating Schedule
Hours/day.....24
Days/week.....212 days/yr

Max Heat Input.....(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0386179348	lb/day
NOx Emissions	7.5856657609	lb/day
CO Emissions	0.6896059783	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0071057000	ton/yr
NOx Emissions	1.3957625000	ton/yr
CO Emissions	0.1268875000	ton/yr
SO2 Emissions	5.9764012500	ton/yr
PM10 Emissions	0.3711281733	ton/yr
Total Particulate	0.4315443875	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	0.3502095000
Arsenic Compounds	0	0.8679105000
Beryllium Compounds	0	0.0319756500
Cadmium Compounds	0	1.6063957500
Chromium Compounds	0	0.9744960000
Lead Compounds	0	1.4769705000
Mercury Compounds	0	0.2436240000
Manganese Compounds	0	0.5633805000
Nickel Compounds	0	17.7388725000
Polycylic Organic Matter	0	0.0639513000
Formaldehyde	50-00-0	3.0833662500
Selenium Compounds	0	0.2893035000
Cobalt Compounds	0	0.9212032500
Copper Compounds*	0	2.1317100000

*New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Heig	90.00	feet	Stack Gas Velocity	10.7	ft/sec
Stack Diameter	48	inch	Stack Gas Flow Rate	8,050	ascf/min
			Stack Gas Temperature	350	oF

Other sources that share this stack? Bldg 319 - 16,100,000 Btu/hr boiler

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

Annual Fuel Use: 35,414 gal Jan-May, 15,341 gal Oct-Dec, 50,755 gal Total Use

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/24/94
Location:	Bldg. 319	Initials:	DCP
ID Number:	1 active unit	SCC:	1-02-004-02

INPUT DATA

SIZE OF BOILER	12	MMBTU/hr	
TOTAL FUEL USED	50,755	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	6	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 1.5 ACTUAL % SULFUR

BOILER FIRING METHOD	OTHER	(TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	863.09	lbs/year
PARTICULATE EMISSIONS (PM10)	742.26	lbs/year
SULFUR DIOXIDE EMISSIONS	11952.80	lbs/year
CARBON MONOXIDE EMISSIONS	253.78	lbs/year
VOC EMISSIONS (NON METHANE)	14.21	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	2791.53	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	14.21	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	30.34	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	3.50E-01	E
Arsenic Compounds	0	8.68E-01	E
Beryllium Compounds	0	3.20E-02	E
Cadmium Compounds	0	1.61E+00	E
Chromium Compounds	0	9.74E-01	E
Lead Compounds	0	1.48E+00	E
Mercury Compounds	0	2.44E-01	E
Manganese Compounds	0	5.63E-01	E
Nickel Compounds	0	1.77E+01	E
Polycylic Organic Matter	0	6.40E-02	E
Formaldehyde	50-00-0	3.08E+00	E
Selenium Compounds	0	2.89E-01	E
Copper compounds*	0	2.13E+00	
Cobalt Compounds	0	9.21E-01	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 1-02-004-02

Unit ID #..... 1 active unit

Location..... Bldg 319

Permit #..... 00319

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Keeler Model DS-15 WT

Fuel Type..... No. 6 Fuel Oil

Date Installed.....

Annual Fuel Use..... See comments (units)

Rated Capacity..... 16,100,000 Btu/hr (units)

Operating Schedule
Hours/day..... 24
Days/week..... 212 days/yr

Max Heat Input..... (units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0386179348	lb/day
NOx Emissions	7.5856657609	lb/day
CO Emissions	0.6896059783	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0071057000	ton/yr
NOx Emissions	1.3957625000	ton/yr
CO Emissions	0.1268875000	ton/yr
SO2 Emissions	5.9764012500	ton/yr
PM10 Emissions	0.3711281733	ton/yr
Total Particulate	0.4315443875	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	0.3502095000
Arsenic Compounds	0	0.8679105000
Beryllium Compounds	0	0.0319756500
Cadmium Compounds	0	1.6063957500
Chromium Compounds	0	0.9744960000
Lead Compounds	0	1.4769705000
Mercury Compounds	0	0.2436240000
Manganese Compounds	0	0.5633805000
Nickel Compounds	0	17.7388725000
Polycylic Organic Matter	0	0.0639513000
Formaldehyde	50-00-0	3.0833662500
Selenium Compounds	0	0.2893035000
Cobalt Compounds	0	0.9212032500
Copper Compounds*	0	2.1317100000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Heig	90.00	feet	Stack Gas Velocity	10.7	ft/sec
Stack Diameter	48	inch	Stack Gas Flow Rate	8,050	ascf/min
			Stack Gas Temperature	350	oF

Other sources that share this stack? Bldg 319 - 16,100,000 Btu/hr boiler

Stack Sampling report available? (Y/ N, results ?)

COMMENTS

Annual Fuel Use: 47,514 gal Jan-May, 20,582 gal Oct-Dec, 68,096 gal Total Use

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/24/94
Location:	Bldg. 319	Initials:	DCP
ID Number:	1 active unit	SCC:	1-02-004-02

INPUT DATA

SIZE OF BOILER	16.1	MMBTU/hr	
TOTAL FUEL USED	50,755	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	6	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 1.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	863.09	lbs/year
PARTICULATE EMISSIONS (PM10)	742.26	lbs/year
SULFUR DIOXIDE EMISSIONS	11952.80	lbs/year
CARBON MONOXIDE EMISSIONS	253.78	lbs/year
VOC EMISSIONS (NON METHANE)	14.21	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	2791.53	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	14.21	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	30.34	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	3.50E-01	E
Arsenic Compounds	0	8.68E-01	E
Beryllium Compounds	0	3.20E-02	E
Cadmium Compounds	0	1.61E+00	E
Chromium Compounds	0	9.74E-01	E
Lead Compounds	0	1.48E+00	E
Mercury Compounds	0	2.44E-01	E
Manganese Compounds	0	5.63E-01	E
Nickel Compounds	0	1.77E+01	E
Polycylic Organic Matter	0	6.40E-02	E
Formaldehyde	50-00-0	3.08E+00	E
Selenium Compounds	0	2.89E-01	E
Copper compounds*	0	2.13E+00	
Cobalt Compounds	0	9.21E-01	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 334

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use..... (units)

Rated Capacity..... 90,000 Btu/hr (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 353

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 150,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 360

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use..... (units)

Rated Capacity..... 90,000 Btu/hr (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 606

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use..... (units)

Rated Capacity..... 150,000 Btu/hr (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 1-03-005-01

Unit ID #..... 1 active unit

Location..... Bldg 609

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 1,000,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-02-004-02

Unit ID #.....3 active units

Location.....Bldg 718

Permit #.....Jan-May 1993 only 0781, 0783, 07182

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Kewanee

Fuel Type.....No. 6 Oil

Date Installed.....

Annual Fuel Use.....128,375 gal (Jan-May 1993) (units)

Rated Capacity.....14,500,000 Btu/hr (each) (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0976766304	lb/day
NOx Emissions	19.1864809783	lb/day
CO Emissions	1.7442255435	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0179725000	ton/yr
NOx Emissions	3.5303125000	ton/yr
CO Emissions	0.3209375000	ton/yr
SO2 Emissions	15.1161562500	ton/yr
PM10 Emissions	0.9386972563	ton/yr
Total Particulate	1.0915084375	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	0.8857875000
Arsenic Compounds	0	2.1952125000
Beryllium Compounds	0	0.0808762500
Cadmium Compounds	0	4.0630687500
Chromium Compounds	0	2.4648000000
Lead Compounds	0	3.7357125000
Mercury Compounds	0	0.6162000000
Manganese Compounds	0	1.4249625000
Nickel Compounds	0	44.8670625000
Polycylic Organic Matter	0	0.1617525000
Formaldehyde	50-00-0	7.7987812500
Selenium Compounds	0	0.7317375000
Cobalt Compounds	0	2.3300062500
Copper Compounds*	0	5.3917500000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Heig	32.00	feet	Stack Gas Velocity	31.85	ft/sec
Stack Diameter	24	inch	Stack Gas Flow Rate	6,000	ascf/min
			Stack Gas Temperature	350	oF

Other sources that share this stack? _____

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(L only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/24/94
Location:	Bldg. 718	Initials:	DCP
ID Number:	3 active units	SCC:	N/A

INPUT DATA

SIZE OF BOILER	14.5	MMBTU/hr	
TOTAL FUEL USED	128,375	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	6	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 1.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	2183.02	lbs/year
PARTICULATE EMISSIONS (PM10)	1877.39	lbs/year
SULFUR DIOXIDE EMISSIONS	30232.31	lbs/year
CARBON MONOXIDE EMISSIONS	641.88	lbs/year
VOC EMISSIONS (NON METHANE)	35.95	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	7060.63	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	35.95	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	76.75	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	8.86E-01	E
Arsenic Compounds	0	2.20E+00	E
Beryllium Compounds	0	8.09E-02	E
Cadmium Compounds	0	4.06E+00	E
Chromium Compounds	0	2.46E+00	E
Lead Compounds	0	3.74E+00	E
Mercury Compounds	0	6.16E-01	E
Manganese Compounds	0	1.42E+00	E
Nickel Compounds	0	4.49E+01	E
Polycylic Organic Matter	0	1.62E-01	E
Formaldehyde	50-00-0	7.80E+00	E
Selenium Compounds	0	7.32E-01	E
Copper compounds*	0	5.39E+00	
Cobalt Compounds	0	2.33E+00	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-03-005-01

Unit ID #.....1 active unit

Location.....Bldg 2073

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....#2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....1,000,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
- Dry Bottom.....
- Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
- Uncontrolled.....
- Multiple Cyclone
  - w/flyash reinjection.....
  - wo/flyash reinjection.....

Overfeed Stoker
- Uncontrolled.....

Underfired Stoker
- Uncontrolled.....
- Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2086

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2104

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 150,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2113

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2301

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 250,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 1-03-005-01

Unit ID #..... 1 active unit

Location..... Bldg 2305

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 500,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2306

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 350,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2410

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 350,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2411

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 150,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Bldg 2485

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 175,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 1 active unit

Location..... Loran C - Coast Guard

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 100,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 4 of 17 active units

Location..... Family Housing - Lake Housing

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 80,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 31 active units

Location..... Family Housing - New Lake Housing

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 90,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 47 of 69 active units

Location..... Family Housing - Eliot Acres

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... #2 Fuel Oil

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 90,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19--	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	___	___	___	___	___	___	___	___	___	___	___	___

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 21 active units

Location..... Trailer Camp

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Propane

Date Installed.....

Annual Fuel Use..... 30,130 gal (units)

Rated Capacity..... 75,000 Btu/hr (units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input..... (units)

MONTHLY FUEL USE

1993	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	3,893	7,036	5,524	2,625	2,093	616	176	341	0	2,441	3,547	1,838

Indicate Units: gal

Total Annual Use: 30,130

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0061576087	lb/day
NOx Emissions	0.1724130435	lb/day
CO Emissions	0.0233989130	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0075325000	ton/yr
NOx Emissions	0.2109100000	ton/yr
CO Emissions	0.0286235000	ton/yr
SO2 Emissions	0.0225975000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0060260000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

COMMENTS

EMISSIONS FOR LIQUIFIED PETROLEUM GAS COMBUSTION
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/25/94
Location:	Trailer Camp	Inititals:	DCP
ID Number:	21 active units	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.075	MMBTU/hr	
TOTAL FUEL USED	30,130	gal/year	
OZONE SEASON FUEL USAGE	1,133	gal/year	(Enter N/A if not known,and zero if no ozone season use)

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT x Default Sulfur (15 Grains/100 cu ft)

FUEL TYPE propane (BUTANE/PROPANE)
(Note if fuel type is not Butane or Propane furthur research is needed)

SOLUTION

PARTICULATE EMISSIONS (TSP)	12.05 LBS/YR
SULFUR OXIDE EMISSIONS (as SO2)	45.20 LBS/YR
CARBON MONOXIDE EMISSIONS	57.25 LBS/YR
VOC EMISSIONS	15.07 LBS/YR
NITROGEN OXIDE EMISSIONS (as NO2)	421.82 LBS/YR

REFERENCES: Criteria Pollutant Emission Factors are from AP-42, Vol 1, Section 1.5, Table 1.5-1, dated 10/92.

SULFUR DEFAULT OF 15 GRAINS/100 CUBIC FT IS AN ASTM SPECIFICATION FROM AEHA

VOC emissions are reported as Total Organic Matter (TOM) in AP-42. TOM includes Methane and Non-methane

NOTES: Industrial Furnace > 10 MMBTU/hr
Commercial & Domestic Boiler < 10 MMBTU/hr

* If ozone season usage is not known, it is assumed to be 25% of the total annual usage

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....N/A

Unit ID #.....107 Residential Boilers
Active Nov - Dec 1993

Location.....Various

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....No. 2 Fuel Oil

Date Installed.....

Annual Fuel Use.....19,287 gal (Nov-Dec)
(units)

Rated Capacity.....<500,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 9/2/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0373685625	lb/day
NOx Emissions	0.9433858696	lb/day
CO Emissions	0.2620516304	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0068758155	ton/yr
NOx Emissions	0.1735830000	ton/yr
CO Emissions	0.0482175000	ton/yr
SO2 Emissions	0.6846885000	ton/yr
PM10 Emissions	0.0132598125	ton/yr
Total Particulate	0.0241087500	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0113407560
Beryllium Compounds	0	0.0067504500
Cadmium Compounds	0	0.0297019800
Chromium Compounds	0	0.1809120600
Lead Compounds	0	0.0240316020
Mercury Compounds	0	0.0081005400
Manganese Compounds	0	0.0378025200
Nickel Compounds	0	0.4590306000
Polycylic Organic Matter	0	N/A
Formaldehyde	50-00-0	N/A
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	0.7560504000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	9/14/94
Location:	Various	Initials:	MJO
ID Number:	107 Residential Boilers	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.49	MMBTU/hr	
TOTAL FUEL USED	19,287	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 0.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	48.22	lbs/year
PARTICULATE EMISSIONS (PM10)	26.52	lbs/year
SULFUR DIOXIDE EMISSIONS	1369.38	lbs/year
CARBON MONOXIDE EMISSIONS	96.44	lbs/year
VOC EMISSIONS (NON METHANE)	13.75	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	347.17	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X = 1%, if default fuel oil grade is #2, and X = 4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS > 100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

istillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	13.75	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	1.51	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	1.13E-02	E
Beryllium Compounds	0	6.75E-03	E
Cadmium Compounds	0	2.97E-02	E
Chromium Compounds	0	1.81E-01	E
Lead Compounds	0	2.40E-02	E
Mercury Compounds	0	8.10E-03	E
Manganese Compounds	0	3.78E-02	E
Nickel Compounds	0	4.59E-01	E
Polycylic Organic Matter	0	N/A	E
Formaldehyde	50-00-0	N/A	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	7.56E-01	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 158 Residential Boilers
Active Jan 1993 - May 1993

Location..... Various

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... No. 2 Fuel Oil

Date Installed.....

Annual Fuel Use..... 107,333 gal (Jan-May)
(units)

Rated Capacity..... <500,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Lead Content (Pb)..... %

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 9/2/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.2079576875	lb/day
NOx Emissions	5.2499836957	lb/day
CO Emissions	1.4583288043	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0382642145	ton/yr
NOx Emissions	0.9659970000	ton/yr
CO Emissions	0.2683325000	ton/yr
SO2 Emissions	3.8103215000	ton/yr
PM10 Emissions	0.0737914375	ton/yr
Total Particulate	0.1341662500	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0631118040
Beryllium Compounds	0	0.0375665500
Cadmium Compounds	0	0.1652928200
Chromium Compounds	0	1.0067835400
Lead Compounds	0	0.1337369180
Mercury Compounds	0	0.0450798600
Manganese Compounds	0	0.2103726800
Nickel Compounds	0	2.5545254000
Polycylic Organic Matter	0	N/A
Formaldehyde	50-00-0	N/A
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	4.2074536000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	9/14/94
Location:	Various	Initials:	MJO
ID Number:	158 Residential Boilers	SCC:	N/A

INPUT DATA

SIZE OF BOILER	0.49	MMBTU/hr	
TOTAL FUEL USED	107,333	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 0.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	268.33	lbs/year
PARTICULATE EMISSIONS (PM10)	147.58	lbs/year
SULFUR DIOXIDE EMISSIONS	7620.64	lbs/year
CARBON MONOXIDE EMISSIONS	536.67	lbs/year
VOC EMISSIONS (NON METHANE)	76.53	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	1931.99	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS > 100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

.stillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	76.53	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	8.42	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	6.31E-02	E
Beryllium Compounds	0	3.76E-02	E
Cadmium Compounds	0	1.65E-01	E
Chromium Compounds	0	1.01E+00	E
Lead Compounds	0	1.34E-01	E
Mercury Compounds	0	4.51E-02	E
Manganese Compounds	0	2.10E-01	E
Nickel Compounds	0	2.55E+00	E
Polycylic Organic Matter	0	N/A	E
Formaldehyde	50-00-0	N/A	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	4.21E+00	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-03-005-01

Unit ID #.....4 Commercial Boilers
Active Jan 1993 - May 1993

Location.....Various

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....No. 2 Fuel Oil

Date Installed.....

Annual Fuel Use.....4,877 gal (Nov-Dec 1993)
(units)

Rated Capacity.....500,000 - 1,000,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0045059239	lb/day
NOx Emissions	0.2650543478	lb/day
CO Emissions	0.0662635870	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0008290900	ton/yr
NOx Emissions	0.0487700000	ton/yr
CO Emissions	0.0121925000	ton/yr
SO2 Emissions	0.1731335000	ton/yr
PM10 Emissions	0.0026823500	ton/yr
Total Particulate	0.0048770000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0028676760
Beryllium Compounds	0	0.0017069500
Cadmium Compounds	0	0.0075105800
Chromium Compounds	0	0.0457462600
Lead Compounds	0	0.0060767420
Mercury Compounds	0	0.0020483400
Manganese Compounds	0	0.0095589200
Nickel Compounds	0	0.1160726000
Polycylic Organic Matter	0	0.0150211600
Formaldehyde	50-00-0	0.2765259000
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	0.1911784000

*New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Various	Initials:	DCP
ID Number:	4 Commercial Boilers	SCC:	1-03-005-01

INPUT DATA

SIZE OF BOILER	0.75	MMBTU/hr	
TOTAL FUEL USED	4,877	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 0.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	9.75	lbs/year
PARTICULATE EMISSIONS (PM10)	5.36	lbs/year
SULFUR DIOXIDE EMISSIONS	346.27	lbs/year
CARBON MONOXIDE EMISSIONS	24.39	lbs/year
VOC EMISSIONS (NON METHANE)	1.66	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	97.54	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	1.66	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.67	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	2.87E-03	E
Beryllium Compounds	0	1.71E-03	E
Cadmium Compounds	0	7.51E-03	E
Chromium Compounds	0	4.57E-02	E
Lead Compounds	0	6.08E-03	E
Mercury Compounds	0	2.05E-03	E
Manganese Compounds	0	9.56E-03	E
Nickel Compounds	0	1.16E-01	E
Polycylic Organic Matter	0	1.50E-02	E
Formaldehyde	50-00-0	2.77E-01	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	1.91E-01	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

BOILERS/HEATERS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....1-03-005-01

Unit ID #.....12 Commercial Boilers
Active Jan 1993 - May 1993

Location.....Various

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....No. 2 Fuel Oil

Date Installed.....

Annual Fuel Use.....72,267 gal (Jan-May)
(units)

Rated Capacity.....500,000 - 2,000,000 Btu/hr
(units)

Operating Schedule
Hours/day.....
Days/week.....

Max Heat Input.....
(units)

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

FIRING CONFIGURATION

Tangentially Fired.....
Horizontally Fired.....
Vertically Fired.....

Pulverized Coal Fired
Dry Bottom.....
Wet Bottom.....

Cyclone Furnace.....

Spreader Stoker
Uncontrolled.....
Multiple Cyclone
w/flyash reinjection.....
wo/flyash reinjection.....

Overfeed Stoker
Uncontrolled.....

Underfired Stoker
Uncontrolled.....
Multiple Cyclone.....

Handfired Units.....

Wet/Dry Bottom?.....

Other..

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

FUEL ANALYSIS

Sulfur Content (S).....%

Ash Content.....%

Nitrogen Content (N).....%

Lead Content (Pb).....%

Reference..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 8/23/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOLUME 1, STATIONARY SOURCES AND L&E SERIES, TABLE 4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0667684239	lb/day
NOx Emissions	3.9275543478	lb/day
CO Emissions	0.9818885870	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0122853900	ton/yr
NOx Emissions	0.7226700000	ton/yr
CO Emissions	0.1806675000	ton/yr
SO2 Emissions	2.5654785000	ton/yr
PM10 Emissions	0.0397468500	ton/yr
Total Particulate	0.0722670000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
NONE		
Antimony Compounds	0	N/A
Arsenic Compounds	0	0.0424929960
Beryllium Compounds	0	0.0252934500
Cadmium Compounds	0	0.1112911800
Chromium Compounds	0	0.6778644600
Lead Compounds	0	0.0900446820
Mercury Compounds	0	0.0303521400
Manganese Compounds	0	0.1416433200
Nickel Compounds	0	1.7199546000
Polycylic Organic Matter	0	0.2225823600
Formaldehyde	50-00-0	4.0975389000
Selenium Compounds	0	N/A
Cobalt Compounds	0	N/A
Copper Compounds*	0	2.8328664000

*New York State HAP

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling report available? (Y/ N, results ?) _____

COMMENTS

EMISSIONS FOR FUEL OIL COMBUSTION
Federal and New York State Regulations
(Use only for FO #2 or FO #6)

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Various	Initials:	DCP
ID Number:	12 Commercial Boilers	SCC:	1-03-005-01

INPUT DATA

SIZE OF BOILER	1.25	MMBTU/hr	
TOTAL FUEL USED	72,267	gal/year	
TOTAL OZONE SEASON FUEL USED	N/A	gal/year	**(Enter N/A, if not known and zero, if no ozone season use^)**
FUEL OIL GRADE	2	(#2 or #6 OIL)	

ENTER ACTUAL SULFUR CONTENT, IF KNOWN, OR ELSE ENTER "X"
SULFUR CONTENT 0.5 ACTUAL % SULFUR

BOILER FIRING METHOD OTHER (TANGENTIAL/VERTICAL/OTHER)

SOLUTION

PARTICULATE EMISSIONS (TSP)	144.53	lbs/year
PARTICULATE EMISSIONS (PM10)	79.49	lbs/year
SULFUR DIOXIDE EMISSIONS	5130.96	lbs/year
CARBON MONOXIDE EMISSIONS	361.34	lbs/year
VOC EMISSIONS (NON METHANE)	24.57	lbs/year
NITROGEN OXIDE EMISSIONS(as NO2)	1445.34	lbs/year

REFERENCES: CRITERIA POLLUTANT EMISSION FACTORS WERE OBTAINED FROM TABLES 1.3-2

NOTES:
N/A: NOT AVAILABLE
X: Default value of sulfur content of fuel. X=1%, if default fuel oil grade is #2, and X=4% if fuel oil grades are nos. 4,5 & 6. (AP-42 Appendix A)
DATA QUALITY: A
^: Ozone season usage, if not known, is assumed to be 25% of the total annual usage.

UTILITY BOILERS>100 MMBTU/HR
INDUSTRIAL BOILER:10-100 MMBTU/HR
COMMERCIAL BOILERS:0.5-<10 MMBTU/HR
RESIDENTIAL FURNACES:<0.5 MMBTU/HR

Distillate Fuel is fuel oil #2, and Residual Fuels are Fuel Oil Nos 4, 5,& 6 (See AP-42)

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	24.57	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	9.99	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Antimony Compounds	0	N/A	E
Arsenic Compounds	0	4.25E-02	E
Beryllium Compounds	0	2.53E-02	E
Cadmium Compounds	0	1.11E-01	E
Chromium Compounds	0	6.78E-01	E
Lead Compounds	0	9.00E-02	E
Mercury Compounds	0	3.04E-02	E
Manganese Compounds	0	1.42E-01	E
Nickel Compounds	0	1.72E+00	E
Polycylic Organic Matter	0	2.23E-01	E
Formaldehyde	50-00-0	4.10E+00	E
Selenium Compounds	0	N/A	E
Copper compounds*	0	2.83E+00	
Cobalt Compounds	0	N/A	E

* New York State HAP

REFERENCES: HAZARDOUS AIR POLLUTION EMISSION FACTORS TAKEN

FROM TABLE 1.3-11 OF AP-42 (SUPPLEMENT F), EXCEPT FOR COPPER WHICH WAS TAKEN FROM TABLE 4-1 OF "ESTIMATING AIR TOXIC EMISSIONS FROM COAL AND OIL COMBUSTION SOURCES"

NOTES:

HEATING VALUES FOR RESIDUAL AND DISTILATE FUEL OIL ARE TAKEN FROM AP-42 APPENDIX A. PAGE A-3. 150,000 BTU/GAL FOR RESIDUAL OIL AND 140,000 BTU/GAL FOR DISTILLATE OIL

WHEN HAP EMISSION FACTORS WERE PRESENTED AS A RANGE , THE FACTOR WHICH RESULTED IN THE HIGHEST HAP EMISSION WAS USED IN THE CALCULATION

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 4

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Kohler

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....260 kw
(units)

Operating Schedule
Hours/day.....1 hr/2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0618959584	lb/day
NOx Emissions	0.7601258052	lb/day
CO Emissions	0.1645129421	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0113888563	ton/yr
NOx Emissions	0.1398631481	ton/yr
CO Emissions	0.0302703813	ton/yr
SO2 Emissions	0.0093008994	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0099902249	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0215118151
Toluene	108-88-3	0.0094301526
Xylenes (Isomers)	1330-20-7	0.0065711332
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0272067972
1,3-Butadiene	106-99-0	0.0009015134
Acetaldehyde	75-07-0	0.0176844182
Acrolein	107-02-8	0.0021327362
Naphthalene	91-20-3	0.0019552003
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 4	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	348.58	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	19.98	lbs/year
SULFUR OXIDE EMISSIONS	18.60	lbs/year
CARBON MONOXIDE EMISSIONS	60.54	lbs/year
NITROGEN OXIDE EMISSIONS	279.73	lbs/year
EXHAUST VOC EMISSIONS	22.38	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.40	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	22.78	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	19.98	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.09	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	2.15E-02	E
Toluene	108-88-3	9.43E-03	E
Xylenes (Isomers)	1330-20-7	6.57E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	2.72E-02	E
1,3-Butadiene	106-99-0	9.02E-04	E
Acetaldehyde	75-07-0	1.77E-02	E
Acrolein	107-02-8	2.13E-03	E
Naphthalene	91-20-3	1.96E-03	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 101

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Kohler

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....125 kw
(units)

Operating Schedule
Hours/day.....1 hr/2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0297576723	lb/day
NOx Emissions	0.3654450986	lb/day
CO Emissions	0.0790927606	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0054754117	ton/yr
NOx Emissions	0.0672418981	ton/yr
CO Emissions	0.0145530680	ton/yr
SO2 Emissions	0.0044715862	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0048029927	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0103422188
Toluene	108-88-3	0.0045337272
Xylenes (Isomers)	1330-20-7	0.0031591987
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0130801910
1,3-Butadiene	106-99-0	0.0004334199
Acetaldehyde	75-07-0	0.0085021241
Acrolein	107-02-8	0.0010253540
Naphthalene	91-20-3	0.0009400002
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 101	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	167.59	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	9.61	lbs/year
SULFUR OXIDE EMISSIONS	8.94	lbs/year
CARBON MONOXIDE EMISSIONS	29.11	lbs/year
NITROGEN OXIDE EMISSIONS	134.48	lbs/year
EXHAUST VOC EMISSIONS	10.76	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.19	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	10.95	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	9.61	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.04	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.03E-02	E
Toluene	108-88-3	4.53E-03	E
Xylenes (Isomers)	1330-20-7	3.16E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	1.31E-02	E
1,3-Butadiene	106-99-0	4.33E-04	E
Acetaldehyde	75-07-0	8.50E-03	E
Acrolein	107-02-8	1.03E-03	E
Naphthalene	91-20-3	9.40E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-003-01

Unit ID #..... 1 active generator

Location..... Bldg 102

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Onan

Fuel Type..... Gasoline

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 30 kw
(units)

Operating Schedule
Hours/day..... 1
Days/week..... 1

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1211607121	lb/day
NOx Emissions	0.0646524586	lb/day
CO Emissions	2.4933797015	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0222935710	ton/yr
NOx Emissions	0.0118960524	ton/yr
CO Emissions	0.4587818651	ton/yr
SO2 Emissions	0.0006178570	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0007538777	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.6197612747
Toluene	108-88-3	2.2917791021
Xylenes (Isomers)	1330-20-7	N/A
o-Xylene	95-47-6	0.6955594162
p-Xylene	106-42-3	1.1414308368
m-Xylene	108-38-3	0.0000000000
Formaldehyde	50-00-0	0.3299448513
1,3-Butadiene	106-99-0	0.7490639867
Acetaldehyde	75-07-0	0.1248439978
Acrolein	107-02-8	0.0267522852
Naphthalene	91-20-3	N/A
Hexane	110-54-3	0.3879081360
2,2,4-Trimethylpentane	540-84-1	0.8783666987
Propionaldehyde	123-38-6	0.0089174284
Ethyl benzene	100-41-4	0.3433209939
Cyclohexane*	110-82-7	0.6242199889
n-Heptane*	142-82-5	0.2898164234

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 4	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-003-01

INPUT DATA

TOTAL HOURS ENGINE RUN	52	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	40.22	hp	
FUEL TYPE	gasoline		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	1.51	lbs/year
SULFUR OXIDE EMISSIONS	1.24	lbs/year
CARBON MONOXIDE EMISSIONS	917.56	lbs/year
NITROGEN OXIDE EMISSIONS	23.79	lbs/year
EXHAUST VOC EMISSIONS	30.80	lbs/year
EVAPORATIVE VOC EMISSIONS	1.38	lbs/year
CRANKCASE VOC EMISSIONS	10.14	lbs/year
REFUELING VOC EMISSIONS	2.26	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	44.59	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	1.51	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	8.51	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	6.20E-01	B
Toluene	108-88-3	2.29E+00	B
Xylenes (Isomers)	1330-20-7	N/A	B
o-Xylene	95-47-6	6.96E-01	B
p-Xylene	106-42-3	1.14E+00	B
m-Xylene	108-38-3	0.00E+00	B
Formaldehyde	50-00-0	3.30E-01	B
1,3-Butadiene	106-99-0	7.49E-01	B
Acetaldehyde	75-07-0	1.25E-01	B
Acrolein	107-02-8	2.68E-02	B
Naphthalene	91-20-3	N/A	B
Hexane	110-54-3	3.88E-01	B
2,2,4-Trimethylpentane	540-84-1	8.78E-01	B
Propionaldehyde	123-38-6	8.92E-03	B
Ethyl benzene	100-41-4	3.43E-01	B
Cyclohexane*	110-82-7	6.24E-01	B
n-Heptane*	142-82-5	2.90E-01	B

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 122

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Onan

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....25 kw
(units)

Operating Schedule
Hours/day.....1 hr/2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0059515345	lb/day
NOx Emissions	0.0730890197	lb/day
CO Emissions	0.0158185521	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0010950823	ton/yr
NOx Emissions	0.0134483796	ton/yr
CO Emissions	0.0029106136	ton/yr
SO2 Emissions	0.0008943172	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0009605985	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0020684438
Toluene	108-88-3	0.0009067454
Xylenes (Isomers)	1330-20-7	0.0006318397
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0026160382
1,3-Butadiene	106-99-0	0.0000866840
Acetaldehyde	75-07-0	0.0017004248
Acrolein	107-02-8	0.0002050708
Naphthalene	91-20-3	0.0001880000
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 122	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	33.52	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	1.92	lbs/year
SULFUR OXIDE EMISSIONS	1.79	lbs/year
CARBON MONOXIDE EMISSIONS	5.82	lbs/year
NITROGEN OXIDE EMISSIONS	26.90	lbs/year
EXHAUST VOC EMISSIONS	2.15	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.04	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	2.19	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	1.92	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.01	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	2.07E-03	E
Toluene	108-88-3	9.07E-04	E
Xylenes (Isomers)	1330-20-7	6.32E-04	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	2.62E-03	E
1,3-Butadiene	106-99-0	8.67E-05	E
Acetaldehyde	75-07-0	1.70E-03	E
Acrolein	107-02-8	2.05E-04	E
Naphthalene	91-20-3	1.88E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #.....1 active water pump

Location.....Bldg 334

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Ford Engine

Fuel Type.....Gasoline

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....2.3 L 130 hp
(units)

Operating Schedule
Hours/day.....1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0903712330	lb/day
NOx Emissions	0.0482229124	lb/day
CO Emissions	1.8597596043	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0166283069	ton/yr
NOx Emissions	0.0088730159	ton/yr
CO Emissions	0.3421957672	ton/yr
SO2 Emissions	0.0004608466	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0005623016	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.4622669312
Toluene	108-88-3	1.7093899471
Xylenes (Isomers)	1330-20-7	N/A
o-Xylene	95-47-6	0.5188031746
p-Xylene	106-42-3	0.8513693122
m-Xylene	108-38-3	0.0000000000
Formaldehyde	50-00-0	0.2460989418
1,3-Butadiene	106-99-0	0.5587111111
Acetaldehyde	75-07-0	0.0931185185
Acrolein	107-02-8	0.0199539683
Naphthalene	91-20-3	N/A
Hexane	110-54-3	0.2893325397
2,2,4-Trimethylpentane	540-84-1	0.6551552910
Propionaldehyde	123-38-6	0.0066513228
Ethyl benzene	100-41-4	0.2560759259
Cyclohexane*	110-82-7	0.4655925926
n-Heptane*	142-82-5	0.2161679894

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height	_____	feet	Stack Gas Velocity	_____	ft/sec
Stack Diameter	_____	inch	Stack Gas Flow Rate	_____	ascf/min
			Stack Gas Temperature	_____	oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 334	Initials:	DCP
ID Number:	1 active water pump	SCC:	n/a

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	130.00	hp	
FUEL TYPE	gasoline		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	1.12	lbs/year
SULFUR OXIDE EMISSIONS	0.92	lbs/year
CARBON MONOXIDE EMISSIONS	684.39	lbs/year
NITROGEN OXIDE EMISSIONS	17.75	lbs/year
EXHAUST VOC EMISSIONS	22.97	lbs/year
EVAPORATIVE VOC EMISSIONS	1.03	lbs/year
CRANKCASE VOC EMISSIONS	7.57	lbs/year
REFUELING VOC EMISSIONS	1.69	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	33.26	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	1.12	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	6.35	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	4.62E-01	B
Toluene	108-88-3	1.71E+00	B
Xylenes (Isomers)	1330-20-7	N/A	B
o-Xylene	95-47-6	5.19E-01	B
p-Xylene	106-42-3	8.51E-01	B
m-Xylene	108-38-3	0.00E+00	B
Formaldehyde	50-00-0	2.46E-01	B
1,3-Butadiene	106-99-0	5.59E-01	B
Acetaldehyde	75-07-0	9.31E-02	B
Acrolein	107-02-8	2.00E-02	B
Naphthalene	91-20-3	N/A	B
Hexane	110-54-3	2.89E-01	B
2,2,4-Trimethylpentane	540-84-1	6.55E-01	B
Propionaldehyde	123-38-6	6.65E-03	B
Ethyl benzene	100-41-4	2.56E-01	B
Cyclohexane*	110-82-7	4.66E-01	B
n-Heptane*	142-82-5	2.16E-01	B

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #..... 3 active water pumps

Location..... Bldg 353

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Wajkeha Model 145 GK

Fuel Type..... Gasoline

Date Installed.....

Annual Fuel Use..... (units)

Rated Capacity..... 130 hp at 1750 RPM (units)

Operating Schedule
Hours/day..... 1/ hr/month (each)
Days/week.....

Max Heat Input..... (units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.2711136991	lb/day
NOx Emissions	0.1446687371	lb/day
CO Emissions	5.5792788130	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0498849206	ton/yr
NOx Emissions	0.0266190476	ton/yr
CO Emissions	1.0265873016	ton/yr
SO2 Emissions	0.0013825397	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0016869048	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	1.3868007937
Toluene	108-88-3	5.1281698413
Xylenes (Isomers)	1330-20-7	N/A
o-Xylene	95-47-6	1.5564095238
p-Xylene	106-42-3	2.5541079365
m-Xylene	108-38-3	0.0000000000
Formaldehyde	50-00-0	0.7382968254
1,3-Butadiene	106-99-0	1.6761333333
Acetaldehyde	75-07-0	0.2793555556
Acrolein	107-02-8	0.0598619048
Naphthalene	91-20-3	N/A
Hexane	110-54-3	0.8679976190
2,2,4-Trimethylpentane	540-84-1	1.9654658730
Propionaldehyde	123-38-6	0.0199539683
Ethyl benzene	100-41-4	0.7682277778
Cyclohexane*	110-82-7	1.3967777778
n-Heptane*	142-82-5	0.6485039683

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 353	Initials:	DCP
ID Number:	3 active water pumps	SCC:	n/a

INPUT DATA

TOTAL HOURS ENGINE RUN	36	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	130.00	hp	
FUEL TYPE	gasoline		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	3.37	lbs/year
SULFUR OXIDE EMISSIONS	2.77	lbs/year
CARBON MONOXIDE EMISSIONS	2,053.17	lbs/year
NITROGEN OXIDE EMISSIONS	53.24	lbs/year
EXHAUST VOC EMISSIONS	68.92	lbs/year
EVAPORATIVE VOC EMISSIONS	3.10	lbs/year
CRANKCASE VOC EMISSIONS	22.70	lbs/year
REFUELING VOC EMISSIONS	5.06	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	99.77	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	3.37	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	19.05	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.39E+00	B
Toluene	108-88-3	5.13E+00	B
Xylenes (Isomers)	1330-20-7	N/A	B
o-Xylene	95-47-6	1.56E+00	B
p-Xylene	106-42-3	2.55E+00	B
m-Xylene	108-38-3	0.00E+00	B
Formaldehyde	50-00-0	7.38E-01	B
1,3-Butadiene	106-99-0	1.68E+00	B
Acetaldehyde	75-07-0	2.79E-01	B
Acrolein	107-02-8	5.99E-02	B
Naphthalene	91-20-3	N/A	B
Hexane	110-54-3	8.68E-01	B
2,2,4-Trimethylpentane	540-84-1	1.97E+00	B
Propionaldehyde	123-38-6	2.00E-02	B
Ethyl benzene	100-41-4	7.68E-01	B
Cyclohexane*	110-82-7	1.40E+00	B
n-Heptane*	142-82-5	6.49E-01	B

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 701

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Onan

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....40 kw
(units)

Operating Schedule
Hours/day.....1 hr/2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0095224551	lb/day
NOx Emissions	0.1169424316	lb/day
CO Emissions	0.0253096834	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0017521317	ton/yr
NOx Emissions	0.0215174074	ton/yr
CO Emissions	0.0046569817	ton/yr
SO2 Emissions	0.0014309076	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0015369577	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0033095100
Toluene	108-88-3	0.0014507927
Xylenes (Isomers)	1330-20-7	0.0010109436
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0041856611
1,3-Butadiene	106-99-0	0.0001386944
Acetaldehyde	75-07-0	0.0027206797
Acrolein	107-02-8	0.0003281133
Naphthalene	91-20-3	0.0003008001
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 701	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	53.63	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	3.07	lbs/year
SULFUR OXIDE EMISSIONS	2.86	lbs/year
CARBON MONOXIDE EMISSIONS	9.31	lbs/year
NITROGEN OXIDE EMISSIONS	43.03	lbs/year
EXHAUST VOC EMISSIONS	3.44	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.06	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	3.50	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	3.07	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.01	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	3.31E-03	E
Toluene	108-88-3	1.45E-03	E
Xylenes (Isomers)	1330-20-7	1.01E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	4.19E-03	E
1,3-Butadiene	106-99-0	1.39E-04	E
Acetaldehyde	75-07-0	2.72E-03	E
Acrolein	107-02-8	3.28E-04	E
Naphthalene	91-20-3	3.01E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 715

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Kohler

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....45 kw
(units)

Operating Schedule
Hours/day.....1 hr/2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0107127620	lb/day
NOx Emissions	0.1315602355	lb/day
CO Emissions	0.0284733938	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0019711482	ton/yr
NOx Emissions	0.0242070833	ton/yr
CO Emissions	0.0052391045	ton/yr
SO2 Emissions	0.0016097710	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0017290774	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0037231988
Toluene	108-88-3	0.0016321418
Xylenes (Isomers)	1330-20-7	0.0011373115
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0047088687
1,3-Butadiene	106-99-0	0.0001560312
Acetaldehyde	75-07-0	0.0030607647
Acrolein	107-02-8	0.0003691274
Naphthalene	91-20-3	0.0003384001
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height	_____	feet	Stack Gas Velocity	_____	ft/sec
Stack Diameter	_____	inch	Stack Gas Flow Rate	_____	ascf/min
			Stack Gas Temperature	_____	oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 715	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	60.33	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	3.46	lbs/year
SULFUR OXIDE EMISSIONS	3.22	lbs/year
CARBON MONOXIDE EMISSIONS	10.48	lbs/year
NITROGEN OXIDE EMISSIONS	48.41	lbs/year
EXHAUST VOC EMISSIONS	3.87	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.07	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	3.94	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	3.46	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.02	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	3.72E-03	E
Toluene	108-88-3	1.63E-03	E
Xylenes (Isomers)	1330-20-7	1.14E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	4.71E-03	E
1,3-Butadiene	106-99-0	1.56E-04	E
Acetaldehyde	75-07-0	3.06E-03	E
Acrolein	107-02-8	3.69E-04	E
Naphthalene	91-20-3	3.38E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-001-02

Unit ID #.....1 active generator

Location.....Bldg 722 Fire Station

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....Military

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....60 kw
(units)

Operating Schedule
Hours/day.....1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0065924689	lb/day
NOx Emissions	0.0809601449	lb/day
CO Emissions	0.0175220885	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0012130143	ton/yr
NOx Emissions	0.0148966667	ton/yr
CO Emissions	0.0032240643	ton/yr
SO2 Emissions	0.0009906283	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0010640476	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0022911992
Toluene	108-88-3	0.0010043950
Xylenes (Isomers)	1330-20-7	0.0006998840
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0028977654
1,3-Butadiene	106-99-0	0.0000960192
Acetaldehyde	75-07-0	0.0018835475
Acrolein	107-02-8	0.0002271553
Naphthalene	91-20-3	0.0002082462
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 722 Fire Station	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	80.44	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	2.13	lbs/year
SULFUR OXIDE EMISSIONS	1.98	lbs/year
CARBON MONOXIDE EMISSIONS	6.45	lbs/year
NITROGEN OXIDE EMISSIONS	29.79	lbs/year
EXHAUST VOC EMISSIONS	2.38	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.04	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	2.43	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	2.13	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.01	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	2.29E-03	E
Toluene	108-88-3	1.00E-03	E
Xylenes (Isomers)	1330-20-7	7.00E-04	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	2.90E-03	E
1,3-Butadiene	106-99-0	9.60E-05	E
Acetaldehyde	75-07-0	1.88E-03	E
Acrolein	107-02-8	2.27E-04	E
Naphthalene	91-20-3	2.08E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 1 active generator

Location..... Bldg 729

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Kohler

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 20 kw
(units)

Operating Schedule
Hours/day..... 1
Days/week..... 1

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0087899586	lb/day
NOx Emissions	0.1079468599	lb/day
CO Emissions	0.0233627847	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0016173524	ton/yr
NOx Emissions	0.0198622222	ton/yr
CO Emissions	0.0042987524	ton/yr
SO2 Emissions	0.0013208378	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0014187302	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0030549323
Toluene	108-88-3	0.0013391933
Xylenes (Isomers)	1330-20-7	0.0009331787
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0038636872
1,3-Butadiene	106-99-0	0.0001280256
Acetaldehyde	75-07-0	0.0025113967
Acrolein	107-02-8	0.0003028738
Naphthalene	91-20-3	0.0002776616
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

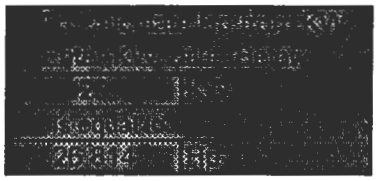
EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 729	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	48	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	26.81	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)



SOLUTION

PARTICULATE EMISSIONS (TSP)	2.84	lbs/year
SULFUR OXIDE EMISSIONS	2.64	lbs/year
CARBON MONOXIDE EMISSIONS	8.60	lbs/year
NITROGEN OXIDE EMISSIONS	39.72	lbs/year
EXHAUST VOC EMISSIONS	3.18	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.06	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	3.23	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	2.84	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.01	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	3.05E-03	E
Toluene	108-88-3	1.34E-03	E
Xylenes (Isomers)	1330-20-7	9.33E-04	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	3.86E-03	E
1,3-Butadiene	106-99-0	1.28E-04	E
Acetaldehyde	75-07-0	2.51E-03	E
Acrolein	107-02-8	3.03E-04	E
Naphthalene	91-20-3	2.78E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....2-02-004-01

Unit ID #.....1 active generator

Location.....Bldg 819

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type.....Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity.....850 kw
(units)

Operating Schedule
Hours/day.....1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S).....%

Lead Content (Pb).....%

Ash Content.....%

Nitrogen Content (N).....%

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 VOL 1,SECTION 3.3, TABLES 3.3-1,3.3-2 & 3.3-3 AND EPA AIR EMISSIONS SPECIES MANUAL

VOL 1, PROFILE NO 1101

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0270349055	lb/day
NOx Emissions	0.9011635179	lb/day
CO Emissions	0.1966174948	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0049744226	ton/yr
NOx Emissions	0.1658140873	ton/yr
CO Emissions	0.0361776190	ton/yr
SO2 Emissions	0.0221286437	ton/yr
PM10 Emissions	0.0023786785	ton/yr
Total Particulate	0.0036569543	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0269807777
Toluene	108-88-3	0.0097701012
Xylenes (Isomers)	1330-20-7	0.0067104254
Formaldehyde	50-00-0	0.0027432775
Acetaldehyde	75-07-0	0.0008761799
Acrolein	107-02-8	0.0002739801
Naphthalene	91-20-3	0.0045199756

(use additional sheets if necessary)

STACK INFORMATION

Stack Ht.	_____	feet	Stack Gas Velocity	_____	ft/sec
Stack Diameter	_____	inch	Stack Gas Flow Rate	_____	ascf/min
			Stack Gas Temperature	_____	oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR LARGE DIESEL INDUSTRIAL ENGINES (>600 KW)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/25/94
Location:	Bldg 819	Initials:	DCP
ID Number:	1 active generator	SCC #	2-02-004-01

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING	1,139.60	hp	
FUEL TYPE	diesel		
FUEL USAGE (gal)		gallons/yr	(Use only when you do not have engine power and hrs.)
Sulfur content in diesel fuel (% by weight)	0.4	% by weight	(default is 0.4 %)

SOLUTION

			Data Quality
PARTICULATE EMISSIONS (TSP)	7.31	lbs/year	E
SULFUR OXIDE EMISSIONS	44.26	lbs/year	B
CARBON MONOXIDE EMISSIONS	72.36	lbs/year	C
NITROGEN OXIDE EMISSIONS	331.63	lbs/year	C
VOC EMISSIONS	9.95	lbs/year	E
PM10 EMISSIONS	4.76	lbs/year	E

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.4, TABLE 3.4-1.

Btu CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	9.95	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	7.31	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.05	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	2.70E-02	E
Toluene	108-88-3	9.77E-03	E
Xylenes (Isomers)	1330-20-7	6.71E-03	E
Formaldehyde	50-00-0	2.74E-03	E
Acetaldehyde	75-07-0	8.76E-04	E
Acrolein	107-02-8	2.74E-04	E
Naphthalene	91-20-3	4.52E-03	E

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 1 active generator

Location..... Bldg 2304

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Kato

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 150 kw
(units)

Operating Schedule
Hours/day..... 1 hr/ 2 wk
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0357092068	lb/day
NOx Emissions	0.4385341184	lb/day
CO Emissions	0.0949113128	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0065704940	ton/yr
NOx Emissions	0.0806902778	ton/yr
CO Emissions	0.0174636815	ton/yr
SO2 Emissions	0.0053659035	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0057635913	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0124106625
Toluene	108-88-3	0.0054404727
Xylenes (Isomers)	1330-20-7	0.0037910384
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0156962292
1,3-Butadiene	106-99-0	0.0005201039
Acetaldehyde	75-07-0	0.0102025490
Acrolein	107-02-8	0.0012304247
Naphthalene	91-20-3	0.0011280002
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

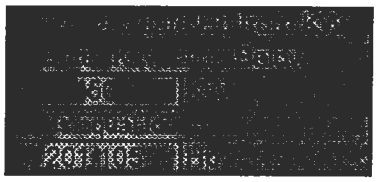
EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 2304	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	26	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	201.11	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)



SOLUTION

PARTICULATE EMISSIONS (TSP)	11.53	lbs/year
SULFUR OXIDE EMISSIONS	10.73	lbs/year
CARBON MONOXIDE EMISSIONS	34.93	lbs/year
NITROGEN OXIDE EMISSIONS	161.38	lbs/year
EXHAUST VOC EMISSIONS	12.91	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.23	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	13.14	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	11.53	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.05	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.24E-02	E
Toluene	108-88-3	5.44E-03	E
Xylenes (Isomers)	1330-20-7	3.79E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	1.57E-02	E
1,3-Butadiene	106-99-0	5.20E-04	E
Acetaldehyde	75-07-0	1.02E-02	E
Acrolein	107-02-8	1.23E-03	E
Naphthalene	91-20-3	1.13E-03	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 2 active generators

Location..... Bldg 2411

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... Onan

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 250 kw
(units)

Operating Schedule
Hours/day..... 1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0549372412	lb/day
NOx Emissions	0.6746678744	lb/day
CO Emissions	0.1460174042	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0101084524	ton/yr
NOx Emissions	0.1241388889	ton/yr
CO Emissions	0.0268672024	ton/yr
SO2 Emissions	0.0082552361	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0088670635	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0190933270
Toluene	108-88-3	0.0083699579
Xylenes (Isomers)	1330-20-7	0.0058323668
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0241480449
1,3-Butadiene	106-99-0	0.0008001598
Acetaldehyde	75-07-0	0.0156962292
Acrolein	107-02-8	0.0018929611
Naphthalene	91-20-3	0.0017353849
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 2411	Initials:	DCP
ID Number:	2 active generators	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	24	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	335.18	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	17.73	lbs/year
SULFUR OXIDE EMISSIONS	16.51	lbs/year
CARBON MONOXIDE EMISSIONS	53.73	lbs/year
NITROGEN OXIDE EMISSIONS	248.28	lbs/year
EXHAUST VOC EMISSIONS	19.86	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.35	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	20.22	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	17.73	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.08	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.91E-02	E
Toluene	108-88-3	8.37E-03	E
Xylenes (Isomers)	1330-20-7	5.83E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	2.41E-02	E
1,3-Butadiene	106-99-0	8.00E-04	E
Acetaldehyde	75-07-0	1.57E-02	E
Acrolein	107-02-8	1.89E-03	E
Naphthalene	91-20-3	1.74E-03	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-04

Unit ID #..... 1 active water pump

Location..... Bldg 2411

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... General Motors Model 60310

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 130 hp at 1600 RPM
(units)

Operating Schedule
Hours/day..... 1 hr/month
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0106538992	lb/day
NOx Emissions	0.1308373591	lb/day
CO Emissions	0.0283169427	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0019603175	ton/yr
NOx Emissions	0.0240740741	ton/yr
CO Emissions	0.0052103175	ton/yr
SO2 Emissions	0.0016009259	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0017195767	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0037027411
Toluene	108-88-3	0.0016231738
Xylenes (Isomers)	1330-20-7	0.0011310624
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0046829952
1,3-Butadiene	106-99-0	0.0001551738
Acetaldehyde	75-07-0	0.0030439469
Acrolein	107-02-8	0.0003670992
Naphthalene	91-20-3	0.0003365407
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 2411	Initials:	DCP
ID Number:	1 active water pump	SCC:	n/a

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	130.00	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	3.44	lbs/year
SULFUR OXIDE EMISSIONS	3.20	lbs/year
CARBON MONOXIDE EMISSIONS	10.42	lbs/year
NITROGEN OXIDE EMISSIONS	48.15	lbs/year
EXHAUST VOC EMISSIONS	3.85	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.07	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	3.92	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	3.44	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.02	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	3.70E-03	E
Toluene	108-88-3	1.62E-03	E
Xylenes (Isomers)	1330-20-7	1.13E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	4.68E-03	E
1,3-Butadiene	106-99-0	1.55E-04	E
Acetaldehyde	75-07-0	3.04E-03	E
Acrolein	107-02-8	3.67E-04	E
Naphthalene	91-20-3	3.37E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 2 active generators

Location..... Loran C

Permit #.....

POC..... Commandor Allen

Inventoried by..... T. Sletten

Phone..... (607) 869-5393

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use..... 2,000 gal/yr (units)

Rated Capacity..... 330 kw (units)

Operating Schedule
Hours/day..... 26 hr/yr
Days/week.....

Max Heat Input..... (units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1571205098	lb/day
NOx Emissions	1.9295501208	lb/day
CO Emissions	0.4176097761	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0289101738	ton/yr
NOx Emissions	0.3550372222	ton/yr
CO Emissions	0.0768401988	ton/yr
SO2 Emissions	0.0236099753	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0253598016	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0546069152
Toluene	108-88-3	0.0239380797
Xylenes (Isomers)	1330-20-7	0.0166805690
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0690634083
1,3-Butadiene	106-99-0	0.0022884570
Acetaldehyde	75-07-0	0.0448912154
Acrolein	107-02-8	0.0054138689
Naphthalene	91-20-3	0.0049632009
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Loran C	Initials:	DCP
ID Number:	2 active generators	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	52	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	442.43	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	50.72	lbs/year
SULFUR OXIDE EMISSIONS	47.22	lbs/year
CARBON MONOXIDE EMISSIONS	153.68	lbs/year
NITROGEN OXIDE EMISSIONS	710.07	lbs/year
EXHAUST VOC EMISSIONS	56.81	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	1.01	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	57.82	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	50.72	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.22	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	5.46E-02	E
Toluene	108-88-3	2.39E-02	E
Xylenes (Isomers)	1330-20-7	1.67E-02	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	6.91E-02	E
1,3-Butadiene	106-99-0	2.29E-03	E
Acetaldehyde	75-07-0	4.49E-02	E
Acrolein	107-02-8	5.41E-03	E
Naphthalene	91-20-3	4.96E-03	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 1 active generator

Location..... Portable

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer..... John Deere

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 50 kw
(units)

Operating Schedule
Hours/day..... 1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0054937241	lb/day
NOx Emissions	0.0674667874	lb/day
CO Emissions	0.0146017404	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0010108452	ton/yr
NOx Emissions	0.0124138889	ton/yr
CO Emissions	0.0026867202	ton/yr
SO2 Emissions	0.0008255236	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0008867063	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0019093327
Toluene	108-88-3	0.0008369958
Xylenes (Isomers)	1330-20-7	0.0005832367
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0024148045
1,3-Butadiene	106-99-0	0.0000800160
Acetaldehyde	75-07-0	0.0015696229
Acrolein	107-02-8	0.0001892961
Naphthalene	91-20-3	0.0001735385
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Portable	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	67.04	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	1.77	lbs/year
SULFUR OXIDE EMISSIONS	1.65	lbs/year
CARBON MONOXIDE EMISSIONS	5.37	lbs/year
NITROGEN OXIDE EMISSIONS	24.83	lbs/year
EXHAUST VOC EMISSIONS	1.99	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.04	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	2.02	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	1.77	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.01	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.91E-03	E
Toluene	108-88-3	8.37E-04	E
Xylenes (Isomers)	1330-20-7	5.83E-04	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	2.41E-03	E
1,3-Butadiene	106-99-0	8.00E-05	E
Acetaldehyde	75-07-0	1.57E-03	E
Acrolein	107-02-8	1.89E-04	E
Naphthalene	91-20-3	1.74E-04	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

GENERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 2-02-001-02

Unit ID #..... 1 active generator

Location..... Portable

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

SOURCE INFORMATION

Manufacturer.....

Fuel Type..... Diesel

Date Installed.....

Annual Fuel Use.....
(units)

Rated Capacity..... 300 kw
(units)

Operating Schedule
Hours/day..... 1 hr/mnth
Days/week.....

Max Heat Input.....
(units)

Load Factor.....

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Indicate Units: _____

Total Annual Use: _____

POLLUTION CONTROL EQUIPMENT
(enter control efficiency)

ESP.....

Baghouse.....

Wet Scrubber.....

Dry Scrubber.....

Spray Dryer.....

Cyclone.....

Other..

None?.....

Other..

FUEL ANALYSIS

Sulfur Content (S)..... %

Lead Content (Pb)..... %

Ash Content..... %

Nitrogen Content (N)..... %

Reference..

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 Vol 1,Stationary sources and EPA Air Emissions Species Manual, Vol 1. Profile No. 1101.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0329623447	lb/day
NOx Emissions	0.4048007246	lb/day
CO Emissions	0.0876104425	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0060650714	ton/yr
NOx Emissions	0.0744833333	ton/yr
CO Emissions	0.0161203214	ton/yr
SO2 Emissions	0.0049531417	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0053202381	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Benzene	71-43-2	0.0114559962
Toluene	108-88-3	0.0050219748
Xylenes (Isomers)	1330-20-7	0.0034994201
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-Xylene	108-38-3	N/A
Formaldehyde	50-00-0	0.0144888269
1,3-Butadiene	106-99-0	0.0004800959
Acetaldehyde	75-07-0	0.0094177375
Acrolein	107-02-8	0.0011357767
Naphthalene	91-20-3	0.0010412310
Hexane	110-54-3	N/A
2,2,4-Trimethylpentane	540-84-1	N/A
Propionaldehyde	123-38-6	N/A
Ethyl benzene	100-41-4	N/A
Cyclohexane*	110-82-7	N/A
n-Heptane*	142-82-5	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height _____ feet
Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec
Stack Gas Flow Rate _____ ascf/min
Stack Gas Temperature _____ oF

Other sources that share this stack? _____
Stack Sampling Report Available? (Y/ N, results?) _____
Describe in detail what the generators are used for:(ie., training, emergency power, etc.)

COMMENTS

EMISSIONS FOR GASOLINE AND DIESEL INDUSTRIAL ENGINES *

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Portable	Initials:	DCP
ID Number:	1 active generator	SCC:	2-02-001-02

INPUT DATA

TOTAL HOURS ENGINE RUN	12	hrs/year	
ENGINE POWER RATING *(use only if power rating is less than 600 hp)*	402.21	hp	
FUEL TYPE	diesel		(GASOLINE/DIESEL)
FUEL USAGE (gal)	0	gallons/yr	(Use only when you do not have engine power and hrs.)

SOLUTION

PARTICULATE EMISSIONS (TSP)	10.64	lbs/year
SULFUR OXIDE EMISSIONS	9.91	lbs/year
CARBON MONOXIDE EMISSIONS	32.24	lbs/year
NITROGEN OXIDE EMISSIONS	148.97	lbs/year
EXHAUST VOC EMISSIONS	11.92	lbs/year
EVAPORATIVE VOC EMISSIONS	0.00	lbs/year
CRANKCASE VOC EMISSIONS	0.21	lbs/year
REFUELING VOC EMISSIONS	0.00	lbs/year

EMISSION FACTORS TAKEN FROM AP-42, SECTION 3.3, TABLE 3.3-1.
DATA QUALITY RATING D AND E.
BTU CONTENT OF THE FUELS TAKEN FROM AP-42 APPENDIX A.
*: Template used for heaters, pumps, air compressors, and generators.

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	12.13	Lbs/Yr
TOTAL PARTICULATE EMISSIONS	10.64	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.05	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Benzene	71-43-2	1.15E-02	E
Toluene	108-88-3	5.02E-03	E
Xylenes (Isomers)	1330-20-7	3.50E-03	E
o-Xylene	95-47-6	N/A	E
p-Xylene	106-42-3	N/A	E
m-Xylene	108-38-3	N/A	E
Formaldehyde	50-00-0	1.45E-02	E
1,3-Butadiene	106-99-0	4.80E-04	E
Acetaldehyde	75-07-0	9.42E-03	E
Acrolein	107-02-8	1.14E-03	E
Naphthalene	91-20-3	1.04E-03	E
Hexane	110-54-3	N/A	E
2,2,4-Trimethylpentane	540-84-1	N/A	E
Propionaldehyde	123-38-6	N/A	E
Ethyl benzene	100-41-4	N/A	E
Cyclohexane*	110-82-7	N/A	E
n-Heptane*	142-82-5	N/A	E

* New York State HAP

DATA QUALITY RATING "E" SPECIATION TAKEN FROM AP-42 SECTION 3.3, TABLE3.3-3, PAGE 3.3-5

DATA RATING "B" TAKEN FROM AIR EMISSIONS SPECIATION MANUAL, PROFILE No. 1101

"N/A" STANDS FOR NOT APPLICABLE

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-98

Unit ID #.....2 active tanks

Location.....Bldg 117; 355A

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Waste Oil

*Liq Density..(W_L) _____ lb/gal

*Molec Weight (M_V)_____ lb/lb-mol

*Vapor Pressure (P_{VA})_____ psia

TANK INFORMATION

Tank Size .....2,005 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...N/A gal/yr

*Tank Max Liq Vol (V_{LX}).._____ ft^2

*Turnovers/year (N).....

*Product Factor (K_P).....
Crude Oil = 0.75
Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....5.3 ft

Tank Length (L).....12 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....5 active tanks

Location.....Bldg 6; 106A; 353; 3605

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....500 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...2,535 gal/yr

*Tank Max Liq Vol (V_{LX}).._____ ft^2

*Turnovers/year (N).....

*Product Factor (K_P).....

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....4 ft

Tank Length (L).....5.5 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000290318 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 6;106A;353;3605	Inititals:	DCP
ID Number:	5 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	4	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	6	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	2,535	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
! Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.06 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.06	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....4 active tanks

Location.....Bldg 101; 609; 816; 819

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....3,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...12,166 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....5.3 ft

Tank Length (L).....18 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0001393297 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 101:609;816:819	Inititals:	DCP
ID Number:	4 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	5	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	18	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	12,166	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.28 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.28	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....2 active tanks

Location.....Bldg 103; 813

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....2,500 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...5,069 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....5.3 ft

Tank Length (L).....15 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000580521 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 103:813	Inititals:	DCP
ID Number:	2 active tank	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	5	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	15	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	5,069	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.12 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.12	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....1 active tank

Location.....Bldg 106

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....5,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...5,069 gal/yr

*Tank Max Liq Vol (V_{LX}).._____ ft^2

*Turnovers/year (N).....

*Product Factor (K_P).....
Crude Oil = 0.75
Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....8 ft

Tank Length (L).....13.4 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000580521 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 106	Inititals:	DCP
ID Number:	1 active tank	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	8	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	13	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	5,069	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
·8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.12 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.12	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....2 active tanks

Location.....Bldg 113; 606

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....2,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...4,056 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....5.3 ft

Tank Length (L).....12 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000464509 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 113:606	Inititals:	DCP
ID Number:	1 active tank	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	5	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	12	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	4,056	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.09 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.09	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....1 active tank

Location..Bldg 120 (Public Works Fueling Site)

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....10,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...31,707 gal/yr

*Tank Max Liq Vol (V_{LX}).._____ ft^2

*Turnovers/year (N).....

*Product Factor (K_P).....

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....8 ft

Tank Length (L).....26.75 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
Oct 92	3,975	Apr	2,412
Nov	3,071	May	2,759
Dec	3,138	Jun	981
Jan 93	2,345	Jul	1,212
Feb	3,164	Aug	2,734
Mar	3,797	Sep	2,119
		ANNUAL TOTALS:	31,707

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0012266496 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0003631206 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 120 (Public Works Fueling Site)	Inititals:	DCP
ID Number:	1 active tank	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	8	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	27	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	31,707	Gal/yr	
OZONE SEASON THROUGHPUT	4,927	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.73 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.73	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-98

Unit ID #..... 2 active tanks

Location..... Bldg 121; 319

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #6

*Liq Density..(W_L) 6.4 lb/gal

*Molec Weight (M_V) 190 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.00004 at 60°F psia

TANK INFORMATION

Tank Size ..... 30,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 129,882 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... _____

Tank Length (L)..... _____ ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000117512 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 121; 319	Inititals:	DCP
ID Number:	2 active tanks	SCC:	4-04-004-98

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	11	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	47	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	129,882	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	190	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00004	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.02 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	D	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.02	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....1 active tank

Location.....Bldg 127

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....12,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...12,166 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....8 ft

Tank Length (L).....32 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0001393297 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 127	Inititals:	DCP
ID Number:	1 active tank	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	8	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	32	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	12,166	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
I Oil#6 190AMU, 0.00004 psia
.. -8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.28 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.28	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-98

Unit ID #..... 2 active tanks

Location..... Bldg 319; 718

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #6

*Liq Density..(W_L) 6.4 lb/gal

*Molec Weight (M_V) 190 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.00004 at 60°F psia

TANK INFORMATION

Tank Size ..... 20,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 86,587 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... _____

Tank Length (L)..... _____ ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000078341 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 319; 718	Inititals:	DCP
ID Number:	2 active tanks	SCC:	4-04-004-98

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	11	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	38	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	86,587	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	190	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00004	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.02 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	D	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.02	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-98

Unit ID #..... 1 active tank

Location..... Bldg 718

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #6

*Liq Density..(W_L) 6.4 lb/gal

*Molec Weight (M_V) 190 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.00004 at 60°F psia

TANK INFORMATION

Tank Size ..... 40,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 86,587 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... 12 ft.

Tank Length (L)..... 48 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000078341 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 718	Inititals:	DCP
ID Number:	1 active tanks	SCC:	4-04-004-98

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	12	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	48	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	86,587	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	190	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00004	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
el Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.02 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	D	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.02	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....2 active tanks

Location.....Bldg 729

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....550 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...1,115 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....4.125 ft

Tank Length (L).....5.6 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000127694 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 729	Inititals:	DCP
ID Number:	2 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	4	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	6	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	1,115	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
' Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.03 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.03	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-14

Unit ID #..... 1 active tank

Location..... Bldg 815

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size ..... 3,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 3,041 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... 5.3 ft

Tank Length (L)..... 18 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000348267 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 815	Inititals:	DCP
ID Number:	1 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	5	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	18	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	3,041	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.07 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.07	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....1 active tank

Location.....Bldg 819

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....10,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...10,138 gal/yr

*Tank Max Liq Vol (V_{LX}).._____ ft^2

*Turnovers/year (N).....

*Product Factor (K_P).....
Crude Oil = 0.75
Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....8 ft

Tank Length (L).....26.75 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0001161042 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 819	Inititals:	DCP
ID Number:	1 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	8	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	27	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	10,138	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.23 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.23	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-10

Unit ID #..... 1 active tank

Location..... Air Field

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product JP-4

*Liq Density..(W_L) _____ lb/gal

*Molec Weight (M_V) _____ lb/lb-mol

*Vapor Pressure (P_{VA}) _____ psia

TANK INFORMATION

Tank Size ..... 30,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 25,813 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... 10.5 ft

Tank Length (L)..... 46.5 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
Oct 92	4,603	Apr	947
Nov	1,404	May	281
Dec	706	Jun	0
Jan 93	245	Jul	231
Feb	396	Aug	4,078
Mar	570	Sep	12,352
		ANNUAL TOTALS:	25,813

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.1159772257 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0319589524 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	1.4125856952
Cumene	98-82-8	N/A
Benzene	71-43-2	0.3195895238
Toluene	108-88-3	0.8501081333
Ethylbenzene	100-41-4	0.2364962476
o-Xylene	95-47-6	0.6455708381
p-Xylene	106-42-3	0.2237126667
m-xylene	108-38-3	0.6136118857
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	0.3195895238
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	2.3457871048
Cyclohexane*	110-82-7	0.7925820190

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Air Field	Inititals:	DCP
ID Number:	1 active tank	SCC:	4-04-004-10

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	11	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	47	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	25,813	Gal/yr	
OZONE SEASON THROUGHPUT	4,309	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	80	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	1.30000	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
Fuel Oil#6 190AMU, 0.00004 psia
JP-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	63.92 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	B	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	63.92	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	7.76	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	1.41E+00	AEHA
Cumene	98-82-8	N/A	AEHA
Benzene	71-43-2	3.20E-01	AEHA
Toluene	108-88-3	8.50E-01	AEHA
Ethylbenzene	100-41-4	2.36E-01	AEHA
O-Xylene	95-47-6	6.46E-01	AEHA
P-Xylene	106-42-3	2.24E-01	AEHA
M-xylene	108-38-3	6.14E-01	AEHA
Styrene	100-42-5	N/A	AEHA
Chlorobenzene	108-90-7	N/A	AEHA
Napthalene	91-20-3	3.20E-01	AEHA
Xylenes (M & P)		N/A	AEHA
Heptane*	142-82-5	2.35E+00	AEHA
Cyclohexane*	110-82-7	7.93E-01	AEHA

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-04-004-14

Unit ID #.....7 active tanks

Location.....Various

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....1,000 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)...7,097 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation.....horizontal

Tank Diameter (D).....4.5 ft

Tank Length (L).....6 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0000812775 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

Date Temp. Rev: 4/18/94

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Various	Inititals:	DCP
ID Number:	7 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	5	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	6	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	7,097	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
' Oil#6 190AMU, 0.00004 psia
.. -8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.16 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.16	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-14

Unit ID #..... 23 active tanks

Location..... Various

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size ..... 550 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... 12,825 gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... 4.125 ft

Tank Length (L)..... 5.6 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL 1, PROFILE NO 1190, AND INSTALLATION RESTORATION TOXICOLOGY GUIDE

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0000000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0001468768 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
o-Xylene	95-47-6	N/A
p-Xylene	106-42-3	N/A
m-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)	-	N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

REMARKS

EMISSIONS FOR UNDERGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Various	Inititals:	DCP
ID Number:	23 active tanks	SCC:	4-04-004-14

CRUDE OIL STORED	no	(YES / NO)	
TANK DIAMETER (D)	4	Ft	*(see table of standard dimensions,*
TANK LENGTH (L)	6	Ft	*if dimensions are unknown)*
ANNUAL THROUGHPUT (Q)	12,825	Gal/yr	
OZONE SEASON THROUGHPUT	0	Gal/Yr	**(Enter N/A, if unknown and zero, if no O3 season use)**
MOLECULAR WEIGHT OF LIQUID (See Enclosed Charts)	130	Lb / Lb * mole	
TRUE VAPOR PRESSURE (PVA) (See Enclosed Charts)	0.00740	psia at 60 degrees F	

(Note if you have another fuel stored that is not listed make sure you use the right lb/lb mole and psia for the stored product)

Gasoline 62AMU, 6.9 psia
Jet naptha (JP-4) 80AMU,1.3 psia
Fuel Oil#2 130AMU, .0074 psia
l Oil#6 190AMU, 0.00004 psia
-8 130AMU, 0.0085 psia

TOTAL VOC EMISSIONS	0.29 lb/yr

NOTE:
All emissions from the storage of liquids in a underground storage tank are working losses only, there are no breathing losses assumed.
Emission factors are obtained from section 12.3 of AP-42, page 12-31 the working loss equation.
All fuels AMU and psia are taken from table 12.3-2, section 12.3 of AP-42 (JP-8 was assumed to be similar to jet kerosene).

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED	C	A - GASOLINE B - JET NAPTHA (JP-4) C - FUEL OIL #2 (DIESEL) D - FUEL OIL #6 E - JP-8 F - OTHER
TOTAL VOC EMISSIONS	0.29	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.00	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

* New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-001-03

Unit ID #.....1 active tank

Location.....Bldg 102

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Gasoline

*Liq Density..(W_L) 4.9 lb/gal

*Molec Weight (M_V) 62 at 60°F lb/lb-mol

*Vapor Pressure (P_{VA}) 6.9 at 60°F psia

TANK INFORMATION

Tank Size .....275 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....250 gal/yr

*Tank Diameter (D).....3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.3716229343	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0237068547	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	1.8538760364
Cumene	98-82-8	0.156465241
Benzene	71-43-2	1.540945555
Toluene	108-88-3	7.216366566
Ethylbenzene	100-41-4	1.929737971
O-Xylene	95-47-6	3.039218771
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	0.080603306
Chlorobenzene	108-90-7	0.014224113
Napthalene	91-20-3	0.379309675
Xylenes (M & P)		7.244814792
Heptane*	142-82-5	0.872412252
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Bldg 102	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-001-03

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	3	Ft
TANK LENGTH / HEIGHT (L / H)	5	Ft
ANNUAL THROUGHPUT (Q)	250	Gal / Yr
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	62	Lb / Lb * mole
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	6.90000	psia
	Annual Average	
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day

Gasoline RVP13 62AMU, 6.9 psia
Fuel oil #2 130AMU, .0074 psia
Fuel oil #6 190AMU, .00004 psia
JP-4 80AMU,1.3 psia
JP-8 130AMU, 0.0085 psia

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	45.35	lb/yr
WORKING LOSS EMISSIONS	2.06	lb/yr
TOTAL VOC EMISSIONS	47.41	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED A

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 47.41 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 24.33 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	1.85E+00	B
Cumene	98-82-8	1.56E-01	B
Benzene	71-43-2	1.54E+00	B
Toluene	108-88-3	7.22E+00	B
Ethylbenzene	100-41-4	1.93E+00	B
O-Xylene	95-47-6	3.04E+00	B
P-Xylene	106-42-3	N/A	B
M-xylene	108-38-3	N/A	B
Styrene	100-42-5	8.06E-02	B
Chlorobenzene	108-90-7	1.42E-02	B
Napthalene	91-20-3	3.79E-01	B
Xylenes (M & P)		7.24E+00	B
Heptane*	142-82-5	8.72E-01	B
Cyclohexane*	110-82-7	N/A	B

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-001-03

Unit ID #.....1 active tank

Location.....Bldg 334

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Gasoline

*Liq Density..(W_L) 4.9 lb/gal

*Molec Weight (M_V) 62 lb/lb-mol

*Vapor Pressure (P_{VA}) 6.9 at 60°F psia

TANK INFORMATION

Tank Size .....500 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....250 gal/yr

*Tank Diameter (D).....4 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I)....._____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.5779088110	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0375908656	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	2.9396056871
Cumene	98-82-8	0.248099713
Benzene	71-43-2	2.443406262
Toluene	108-88-3	11.44265948
Ethylbenzene	100-41-4	3.059896457
O-Xylene	95-47-6	4.819148965
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	0.127808943
Chlorobenzene	108-90-7	0.022554519
Napthalene	91-20-3	0.601453849
Xylenes (M & P)		11.48776852
Heptane*	142-82-5	1.383343853
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Bldg 334	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-001-03

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	4	Ft	
TANK LENGTH / HEIGHT (L / H)	5	Ft	
ANNUAL THROUGHPUT (Q)	250	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	62	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	6.90000	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	73.12	lb/yr
WORKING LOSS EMISSIONS	2.06	lb/yr
TOTAL VOC EMISSIONS	75.18	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED A

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 75.18 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 38.58 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	2.94E+00	B
Cumene	98-82-8	2.48E-01	B
Benzene	71-43-2	2.44E+00	B
Toluene	108-88-3	1.14E+01	B
Ethylbenzene	100-41-4	3.06E+00	B
O-Xylene	95-47-6	4.82E+00	B
P-Xylene	106-42-3	N/A	B
M-xylene	108-38-3	N/A	B
Styrene	100-42-5	1.28E-01	B
Chlorobenzene	108-90-7	2.26E-02	B
Napthalene	91-20-3	6.01E-01	B
Xylenes (M & P)		1.15E+01	B
Heptane*	142-82-5	1.38E+00	B
Cyclohexane*	110-82-7	N/A	B

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21 Unit ID #.....3 active tanks

Location.....Bldg 4; 715; 2304 Permit #.....

POC.....Thomas Grasek Inventoried by.....T. Sletten

Phone.....(607) 869-1450 Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel *Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol *Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....275 gal *Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....836 gal/yr *Tank Diameter (D).....3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____psia *Vapor Press Function (P^*)_____

Color of Paint.....White Condition of Paint: Good _____ Poor _____ (check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____°R

*MIN Ambient Temp (T_{AN})....._____°R

*Avg Liquid Surface Temp (T_{LA})_____°R *Solar Isolation Factor (I)..... _____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1,

PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001755528	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000179840	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 4; 715; 2304	Initials:	DCP
ID Number:	3 active tanks	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	3	Ft	
TANK LENGTH / HEIGHT (L / H)	5	Ft	
ANNUAL THROUGHPUT (Q)	836	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.02	lb/yr
WORKING LOSS EMISSIONS	0.01	lb/yr
TOTAL VOC EMISSIONS	0.04	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.04 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 104

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....185 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....188 gal/yr

*Tank Diameter (D).....3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I)....._____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001404422	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000111481	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 104	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	3	Ft	
TANK LENGTH / HEIGHT (L / H)	4	Ft	
ANNUAL THROUGHPUT (Q)	188	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.02	lb/yr
WORKING LOSS EMISSIONS	0.00	lb/yr
TOTAL VOC EMISSIONS	0.02	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.02 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 106G

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....550 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....557 gal/yr

*Tank Diameter (D).....4.125 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0003981757	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000317724	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 106G	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	4	Ft	
TANK LENGTH / HEIGHT (L / H)	6	Ft	
ANNUAL THROUGHPUT (Q)	557	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.06	lb/yr
WORKING LOSS EMISSIONS	0.01	lb/yr
TOTAL VOC EMISSIONS	0.06	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.06 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-001-99

Unit ID #.....1 active tank

Location.....Bldg 118

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Waste Oil

*Liq Density..(W_L) _____ lb/gal

*Molec Weight (M_V)_____ lb/lb-mol

*Vapor Pressure (P_{VA})_____ psia

TANK INFORMATION

Tank Size .....500 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....N/A gal/yr

*Tank Diameter (D).....4 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/$(mph)^n$ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})....._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 129

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....60,000 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....60,830 gal/yr

*Tank Diameter (D).....18 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good ✓
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I)..... _____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0377806315	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0030732272	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 129	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	18	Ft	
TANK LENGTH / HEIGHT (L / H)	30	Ft	
ANNUAL THROUGHPUT (Q)	60,830	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	5.33	lb/yr
WORKING LOSS EMISSIONS	0.82	lb/yr
TOTAL VOC EMISSIONS	6.15	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 6.15 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21 Unit ID #.....2 active tanks

Location.....Bldg 138; 2113 Permit #.....

POC.....Thomas Grasek Inventoried by.....T. Sletten

Phone.....(607) 869-1450 Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2 *Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol *Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....500 gal *Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....1,014 gal/yr *Tank Diameter (D).....4 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia *Vapor Press Function (P^*)_____

Color of Paint.....White Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R *Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0003120175	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000287877	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 138; 2113	Initials:	DCP
ID Number:	2 active tanks	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	4	Ft	
TANK LENGTH / HEIGHT (L / H)	5	Ft	
ANNUAL THROUGHPUT (Q)	1,014	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.04	lb/yr
WORKING LOSS EMISSIONS	0.01	lb/yr
TOTAL VOC EMISSIONS	0.06	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.06 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 2411

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....2,000 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....2,028 gal/yr

*Tank Diameter (D).....5.3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/$(mph)^n$ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0013142673	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0001061625	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 2411	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	5	Ft
TANK LENGTH / HEIGHT (L / H)	12	Ft
ANNUAL THROUGHPUT (Q)	2,028	Gal / Yr
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia
	Annual Average	
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day

Gasoline RVP13 62AMU, 6.9 psia
Fuel oil #2 130AMU, .0074 psia
Fuel oil #6 190AMU, .00004 psia
JP-4 80AMU,1.3 psia
JP-8 130AMU, 0.0085 psia

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.19	lb/yr
WORKING LOSS EMISSIONS	0.03	lb/yr
TOTAL VOC EMISSIONS	0.21	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.21 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 367

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....2,000 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....2,027 gal/yr

*Tank Diameter (D).....5.3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})....._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I)....._____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0013291781	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0001072056	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 367	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	5	Ft	
TANK LENGTH / HEIGHT (L / H)	12	Ft	
ANNUAL THROUGHPUT (Q)	2,027	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.19	lb/yr
WORKING LOSS EMISSIONS	0.03	lb/yr
TOTAL VOC EMISSIONS	0.21	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.21 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 609

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....1,000 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....1,014 gal/yr

*Tank Diameter (D).....4.5 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0004738185	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000401758	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 609	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	5	Ft	
TANK LENGTH / HEIGHT (L / H)	6	Ft	
ANNUAL THROUGHPUT (Q)	1,014	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.07	lb/yr
WORKING LOSS EMISSIONS	0.01	lb/yr
TOTAL VOC EMISSIONS	0.08	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.08 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL PROFILE # 1190

SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION TOXICOLOGY GUIDE

DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg 717

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....40,600 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....41,161 gal/yr

*Tank Diameter (D).....18 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0251870877	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0020529118	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg 717	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	18	Ft
TANK LENGTH / HEIGHT (L / H)	20	Ft
ANNUAL THROUGHPUT (Q)	41,161	Gal / Yr
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia
	Annual Average	
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day

Gasoline RVP13 62AMU, 6.9 psia
Fuel oil #2 130AMU, .0074 psia
Fuel oil #6 190AMU, .00004 psia
JP-4 80AMU,1.3 psia
JP-8 130AMU, 0.0085 psia

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	3.55	lb/yr
WORKING LOSS EMISSIONS	0.55	lb/yr
TOTAL VOC EMISSIONS	4.11	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 4.11 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Field

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....550 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....558 gal/yr

*Tank Diameter (D)..... _____ ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n).... _____

*Roof Fitting Loss Factor(F_F).. _____

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)... _____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α)..... _____

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})... _____ °R

*MIN Ambient Temp (T_{AN}).... _____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I)..... _____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0003782669	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000303781	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Field	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	4	Ft	
TANK LENGTH / HEIGHT (L / H)	6	Ft	
ANNUAL THROUGHPUT (Q)	558	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.05	lb/yr
WORKING LOSS EMISSIONS	0.01	lb/yr
TOTAL VOC EMISSIONS	0.06	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.06 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Loran C

Permit #.....

POC.....Cmdr. Allen

Inventoried by.....T. Sletten

Phone.....(607) 869-5393

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....6,000 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....6,083 gal/yr

*Tank Diameter (D).....6 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0022594602	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0002000187	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Loran C	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)	
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)	
TANK DIAMETER (D)	6	Ft	
TANK LENGTH / HEIGHT (L / H)	16	Ft	
ANNUAL THROUGHPUT (Q)	6,083	Gal / Yr	
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole	Gasoline RVP13 62AMU, 6.9 psia Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia	Fuel oil #6 190AMU, .00004 psia JP-4 80AMU,1.3 psia JP-8 130AMU, 0.0085 psia
	Annual Average		
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit	
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit	
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -	
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day	

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.32	lb/yr
WORKING LOSS EMISSIONS	0.08	lb/yr
TOTAL VOC EMISSIONS	0.40	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.40 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21

Unit ID #.....1 active tank

Location.....Bldg T137

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Diesel Fuel

*Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol

*Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....200 gal

*Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....203 gal/yr

*Tank Diameter (D).....3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____ lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____ psia

*Vapor Press Function (P^*)_____

Color of Paint.....White

Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____ °R

*MIN Ambient Temp (T_{AN})...._____ °R

*Avg Liquid Surface Temp (T_{LA})_____ °R

*Solar Isolation Factor (I).....
btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001404422	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000112492	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Bldg T137	Initials:	DCP
ID Number:	1 active tank	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	3	Ft
TANK LENGTH / HEIGHT (L / H)	4	Ft
ANNUAL THROUGHPUT (Q)	203	Gal / Yr
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia
	Annual Average	
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day

Gasoline RVP13 62AMU, 6.9 psia
Fuel oil #2 130AMU, .0074 psia
Fuel oil #6 190AMU, .00004 psia
JP-4 80AMU,1.3 psia
JP-8 130AMU, 0.0085 psia

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.02	lb/yr
WORKING LOSS EMISSIONS	0.00	lb/yr
TOTAL VOC EMISSIONS	0.02	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.02 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

ABOVEGROUND STORAGE TANKS -- HORIZONTAL FIXED ROOF

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-03-010-21 Unit ID #.....43 active tanks

Location.....Various Permit #.....

POC.....Thomas Grasek Inventoried by.....T. Sletten

Phone.....(607) 869-1450 Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Fuel Oil #2 *Liq Density..(W_L) 6.1 lb/gal

*Molec Weight (M_V) 130 lb/lb-mol *Vapor Pressure (P_{VA}) 0.0074 at 60°F psia

TANK INFORMATION

Tank Size .....275 gal *Average Wind Speed (V).... _____ mph

Annual Net Thruput.(Q).....11,988 gal/yr *Tank Diameter (D).....3 ft

*Shell Clingage Factor (C)._____ bbl/1000 ft^2

*Product Factor (K_C)
Crude Oil = 0.40
Organic Liquid = 1.00

*Wind Speed Exponent (n)....

*Roof Fitting Loss Factor(F_F)..

*Rim-Seal Loss Factor (K_R)_____lb-mole/(mph)^{n}ft.yr

Atmospheric Press(P_a)..._____psia *Vapor Press Function (P^*)_____

Color of Paint.....White Condition of Paint: Good _____
Poor _____
(check one)

*Paint Factor (α).....

Shell Condition.....Lt Rust _____
Dense Rust _____
Gunite Lining _____

*MAX Ambient Temp (T_{AX})..._____°R

*MIN Ambient Temp (T_{AN})...._____°R

*Avg Liquid Surface Temp (T_{LA})_____°R *Solar Isolation Factor (I)....._____ btu/ft^2day

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Facto X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0001755528	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0000792503	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	N/A
Cumene	98-82-8	N/A
Benzene	71-43-2	N/A
Toluene	108-88-3	N/A
Ethylbenzene	100-41-4	N/A
O-Xylene	95-47-6	N/A
P-Xylene	106-42-3	N/A
M-xylene	108-38-3	N/A
Styrene	100-42-5	N/A
Chlorobenzene	108-90-7	N/A
Napthalene	91-20-3	N/A
Xylenes (M & P)		N/A
Heptane*	142-82-5	N/A
Cyclohexane*	110-82-7	N/A

* New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FOR ABOVEGROUND STORAGE TANKS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/15/94
Location:	Various	Initials:	DCP
ID Number:	43 active tanks	SCC #	4-03-010-21

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	3	Ft
TANK LENGTH / HEIGHT (L / H)	5	Ft
ANNUAL THROUGHPUT (Q)	11,988	Gal / Yr
MOLECULAR WEIGHT OF LIQUID (Mv) (See Enclosed Charts)	130	Lb / Lb * mole
TRUE VAPOR PRESSURE (psia) (See Enclosed Charts)	0.00740	psia
	Annual Average	
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I) (See Enclosed Charts)	1034	Btu / Ft^2 * Day

Gasoline RVP13 62AMU, 6.9 psia
Fuel oil #2 130AMU, .0074 psia
Fuel oil #6 190AMU, .00004 psia
JP-4 80AMU,1.3 psia
JP-8 130AMU, 0.0085 psia

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL) (If not known enter 1/2 the value of tank height) (this template for flat roof tanks only)	3	Ft

STANDING STORAGE LOSS EMISSIONS	0.02	lb/yr
WORKING LOSS EMISSIONS	0.13	lb/yr
TOTAL VOC EMISSIONS	0.16	lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof
Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit
Emission factors obtained from AP-42 section 12.3.

OZONE SEASON DATA

	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2
Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED D

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 0.16 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 0.00 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	N/A	N/A
Cumene	98-82-8	N/A	N/A
Benzene	71-43-2	N/A	N/A
Toluene	108-88-3	N/A	N/A
Ethylbenzene	100-41-4	N/A	N/A
O-Xylene	95-47-6	N/A	N/A
P-Xylene	106-42-3	N/A	N/A
M-xylene	108-38-3	N/A	N/A
Styrene	100-42-5	N/A	N/A
Chlorobenzene	108-90-7	N/A	N/A
Napthalene	91-20-3	N/A	N/A
Xylenes (M & P)		N/A	N/A
Heptane*	142-82-5	N/A	N/A
Cyclohexane*	110-82-7	N/A	N/A

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

UNDERGROUND STORAGE TANKS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-04-004-98

Unit ID #..... 2 active tanks

Location..... Bldg 117; 355A

Permit #.....

POC..... Thomas Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Waste Oil

*Liq Density..(W_L) _____ lb/gal

*Molec Weight (M_V) _____ lb/lb-mol

*Vapor Pressure (P_{VA}) _____ psia

TANK INFORMATION

Tank Size ..... 2,005 gal

Turnover Factor (K_N).... _____

Annual Net Thruput.(Q)... N/A gal/yr

*Tank Max Liq Vol (V_{LX}).. _____ ft^2

*Turnovers/year (N)..... _____

*Product Factor (K_P)..... _____

Crude Oil = 0.75

Organic Liquid = 1.00

Tank Orientation..... horizontal

Tank Diameter (D)..... 5.3 ft

Tank Length (L)..... 12 ft

THROUGHPUT INFORMATION

MONTH	gal	MONTH	gal
		ANNUAL TOTALS:	

AP-42 References:
(M_V) (W_L) (P_{VA}) - Tables 12.3-2, 12.3-3
(K_N) - Pg 12-31 / (H_{LX}) = Diameter of Tank

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #..... 2 active degreasers

Location..... Bldg 117

Permit #.....

POC..... Jack LaBour

Inventoried by..... T. Sletten

Phone..... (607) 869-1396

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks..... 2

Tank Size..... Safety Kleen Model 30.3

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)
Solid Stream..... ✓
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir.... ✓

Tank Dimensions: Length.... 3'
Depth..... 2'
Height.... 6"

EMISSION CONTROL

Lid or Cover present?..... [Y] or N

Open or Closed?..... O or [C]
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch.. Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 1 hr/mnth each

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0224264348 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0041264640 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0414720000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.0829440000
Ethyl benzene	100-41-4	0.0414720000
Tetrachloroethylene	127-18-4	0.0414720000
Methyl chloroform	71-55-6	0.0414720000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 117	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	2	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	12	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	8.25	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	8.25	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.25	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	4.15E-02	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	8.29E-02	*
Ethyl benzene	100-41-4	4.15E-02	*
Tetrachloroethylene	127-18-4	4.15E-02	*
Methyl chloroform	71-55-6	4.15E-02	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #..... 3 active degreasers

Location..... Bldg 118

Permit #.....

POC..... Jack LaBour

Inventoried by..... T. Sletten

Phone..... (607) 869-1396

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Solvent 105					

DEGREASING UNIT DESIGN

No. of Tanks..... 3

Tank Size..... Safety Kleen Model 30.3R

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)

Solid Stream..... ✓

Dispersed Stream.....

Interior Drain Rack.....

Solvent Recycle Reservoir.... ✓

Tank Dimensions: Length.... 3'

Depth..... 2'

Height.... 6"

EMISSION CONTROL

Lid or Cover present?..... Y or N

Open or Closed?..... O or C

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch.. Y or N (for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Usage 1 hr/wk

Changed: Once every 2 months

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.1457718261 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0268220160 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.2695680000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.5391360000
Ethyl benzene	100-41-4	0.2695680000
Tetrachloroethylene	127-18-4	0.2695680000
Methyl chloroform	71-55-6	0.2695680000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 118	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	3	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	52	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	53.64	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	53.64	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	1.62	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	2.70E-01	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	5.39E-01	*
Ethyl benzene	100-41-4	2.70E-01	*
Tetrachloroethylene	127-18-4	2.70E-01	*
Methyl chloroform	71-55-6	2.70E-01	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 121

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....1

Tank Size.....Safety Kleen Model 30.3

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)

Solid Stream.....✓

Dispersed Stream.....

Interior Drain Rack.....

Solvent Recycle Reservoir....✓

Tank Dimensions: Length....3'

Depth.....2'

Height....6"

EMISSION CONTROL

Lid or Cover present?.....Y or N

Open or Closed?.....O or C

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch..Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 10 hr/mnth

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.1121321739 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0206323200 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.2073600000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.4147200000
Ethyl benzene	100-41-4	0.2073600000
Tetrachloroethylene	127-18-4	0.2073600000
Methyl chloroform	71-55-6	0.2073600000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 121	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	120	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	41.26	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	41.26	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	1.24	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	2.07E-01	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	4.15E-01	*
Ethyl benzene	100-41-4	2.07E-01	*
Tetrachloroethylene	127-18-4	2.07E-01	*
Methyl chloroform	71-55-6	2.07E-01	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #.....

Location..... Bldg 122

Permit #.....

POC..... Fred Kaufman

Inventoried by..... T. Sletten

Phone..... (607) 869-1456

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks..... 1

Tank Size..... Safety Kleen Model 30.3R

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)
Solid Stream..... ✓
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir.... ✓

Tank Dimensions: Length.... 3'
Depth..... 2'
Height.... 6"

EMISSION CONTROL

Lid or Cover present?..... [Y] or N

Open or Closed?..... O or [C]
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch.. Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 3 hr/wk

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.1457718261 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0268220160 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.2695680000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.5391360000
Ethyl benzene	100-41-4	0.2695680000
Tetrachloroethylene	127-18-4	0.2695680000
Methyl chloroform	71-55-6	0.2695680000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 122	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	156	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	53.64	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	53.64	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	1.62	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	2.70E-01	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	5.39E-01	*
Ethyl benzene	100-41-4	2.70E-01	*
Tetrachloroethylene	127-18-4	2.70E-01	*
Methyl chloroform	71-55-6	2.70E-01	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #.....

Location..... Bldg 317 (COMIS)

Permit #.....

POC..... David Nichols

Inventoried by..... T. Sletten

Phone..... (607) 869-1525

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Heavy Duty Lacquer Thinner	6782	6.6	80	**60	

DEGREASING UNIT DESIGN

No. of Tanks..... 1

Tank Size..... Safety Kleen Model 107

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)
Solid Stream..... ✓
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir.... ✓

Tank Dimensions: Length.... 2' diameter
Depth..... 10"
Height....

EMISSION CONTROL

Lid or Cover present?..... Y or N

Open or Closed?..... O or C
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch.. Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Gun & Equipment Cleaner

Frequency/Operating Practices:

Operated: 3 hr/mnth

Changed: Once every 6 weeks

CONTRACTOR INFORMATION

Contractor

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

**Most thinner recovered although exact amount is unknown. Assumed they recovered 75% of the 80 gallons

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Date Temp. Rev: 4/19/94 cdem

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.3675000000 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0676200000 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	86.5260000000
Methylene Chloride	75-09-2	1.3800000000
Methanol	67-56-1	4.0020000000
Methyl ethyl ketone	78-93-3	54.2340000000
Methyl isobutyl ketone	108-10-1	40.7100000000
Xylenes(Isomers)	1330-20-7	14.3520000000
Ethyl benzene	100-41-4	14.3520000000
Tetrachloroethylene	127-18-4	1.3800000000
Methyl chloroform	71-55-6	1.3800000000
Acetone^	67-64-1	26.4960000000
Ethyl acetate^	141-78-6	25.3920000000
Isobutyl acetate^	110-19-0	25.3920000000
N-Butyl acetate^	123-86-4	25.3920000000
Isopropyl alcohol^	67-63-0	13.2480000000
N-Butyl alcohol^	71-36-3	13.2480000000

^New York State HAP

(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/24/94
Location:	Bldg 317 (COMIS)	Initials:	MJO
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1		
Amount of Solvent used/unit (If not known enter "0")	80	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	60	Gal/Yr	
Density (calculated based on solvent type)	6.9	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.98		
	0.00		
	0		
Type of Degreaser	a		A - COLD DEGREASER (closed top) B - VAPOR DEGREASER C - CONVEYORIZED DEGREASER (Vapor) D - CONVEYORIZED (Non-Boiling)
TYPE OF SOLVENT USED	k		A - SAFETY-KLEEN 105 SOLVENT-MS B - 1,1,1-TRICHLOROETHANE C - TRICHLOROFLUOROMETHANE (FREON 11) D - 1,1,2-TRICHLOROETHANE E - TOLUENE F - METHYLENE CHLORIDE G - TRICHLORETHYLENE H - TRICHLOROTRIFLUOROETHANE (FREON 113) I - CHLOROSOLVE J - STODDARD SOLVENT K - OTHER

SOLUTION

VOC EMISSIONS	135.24	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	135.24	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	347.48	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Toluene	108-88-3	8.65E+01	*
Methylene Chloride	75-09-2	1.38E+00	*
Methanol	67-56-1	4.00E+00	*
Methyl ethyl ketone	78-93-3	5.42E+01	*
Methyl isobutyl ketone	108-10-1	4.07E+01	*
Xylenes(Isomers)	1330-20-7	1.44E+01	*
Ethyl benzene	100-41-4	1.44E+01	*
Tetrachloroethylene	127-18-4	1.38E+00	*
Methyl chloroform	71-55-6	1.38E+00	*
Acetone^	67-64-1	2.65E+01	*
Ethyl acetate^	141-78-6	2.54E+01	*
Isobutyl acetate^	110-19-0	2.54E+01	*
N-Butyl acetate^	123-86-4	2.54E+01	*
Isopropyl alcohol^	67-63-0	1.32E+01	*
N-Butyl alcohol^	71-36-3	1.32E+01	*

^New York State HAP

* Emission Factors obtained from Heavy Duty Lacquer Thinner MSDS.

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 317 (COMIS)

Permit #.....

POC.....David Nichols

Inventoried by.....T. Sletten

Phone.....(607) 869-1525

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....4

Tank Size.....Safety Kleen Model 30.3

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature.....(°F)

Dispensing Nozzle (check all appropriate)
Solid Stream.....✓
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir....✓

Tank Dimensions: Length....3'
Depth.....2'
Height....6"

EMISSION CONTROL

Lid or Cover present?.....[Y] or N

Open or Closed?.....O or [C]
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch..Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 15 hr/mnth

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0560660870 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0103161600 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.1036800000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.2073600000
Ethyl benzene	100-41-4	0.1036800000
Tetrachloroethylene	127-18-4	0.1036800000
Methyl chloroform	71-55-6	0.1036800000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS

Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 317 (COMIS)	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	4		
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr	
Density (calculated based on solvent type)	6.6552	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.995		
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2	
Operation of Degreaser (If not known enter "0")	15	Hrs/Yr	

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	20.63	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	20.63	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.62	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	1.04E-01	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	2.07E-01	*
Ethyl benzene	100-41-4	1.04E-01	*
Tetrachloroethylene	127-18-4	1.04E-01	*
Methyl chloroform	71-55-6	1.04E-01	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #.....

Location..... Bldg 317 (COMIS)

Permit #.....

POC..... David Nichols

Inventoried by..... T. Sletten

Phone..... (607) 869-1525

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks..... 3

Tank Size..... Safety Kleen Model SK44

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)

Solid Stream..... ✓ (Re-circulating)

Dispersed Stream.....

Interior Drain Rack..... ✓

Solvent Recycle Reservoir....

Tank Dimensions: Length.... 44"

Depth..... 25"

Height.... 17"

*1/2 full = 30 gal

EMISSION CONTROL

Lid or Cover present?..... [Y] or N

Open or Closed?..... O or [C]

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch.. Y or N (for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 15 hr/mnth

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0533328652 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0098132472 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0986256000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.1972512000
Ethyl benzene	100-41-4	0.0986256000
Tetrachloroethylene	127-18-4	0.0986256000
Methyl chloroform	71-55-6	0.0986256000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 317 (COMIS)	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	3		
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr	
Density (calculated based on solvent type)	6.6552	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.995		
Surface Area of Degreaser (If not known enter "0")	7.61	Ft^2	
Operation of Degreaser (If not known enter "0")	15	Hrs/Yr	

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	19.63	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	19.63	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.59	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	9.86E-02	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	1.97E-01	*
Ethyl benzene	100-41-4	9.86E-02	*
Tetrachloroethylene	127-18-4	9.86E-02	*
Methyl chloroform	71-55-6	9.86E-02	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-003-35

Unit ID #.....

Location..... Bldg 319

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks..... 1

Tank Size..... Safety Kleen Model 30.3

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)
Solid Stream..... ✓
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir.... ✓

Tank Dimensions: Length.... 3'
Depth..... 2'
Height.... 6"

EMISSION CONTROL

Lid or Cover present?..... [Y] or N

Open or Closed?..... O or [C]
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch.. Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 10 hr/mnth

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.1121321739 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0206323200 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.2073600000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.4147200000
Ethyl benzene	100-41-4	0.2073600000
Tetrachloroethylene	127-18-4	0.2073600000
Methyl chloroform	71-55-6	0.2073600000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 319	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	120	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	41.26	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	41.26	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	1.24	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	2.07E-01	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	4.15E-01	*
Ethyl benzene	100-41-4	2.07E-01	*
Tetrachloroethylene	127-18-4	2.07E-01	*
Methyl chloroform	71-55-6	2.07E-01	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 320 (Machine Shop)

Permit #.....

POC.....Jim Lavoie

Inventoried by.....T. Sletten

Phone.....(607) 869-1434

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....1

Tank Size.....

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)
Solid Stream.....
Dispersed Stream.....

Interior Drain Rack.....
Solvent Recycle Reservoir....

Tank Dimensions: Length....40"
Depth.....24"
Height....24"

EMISSION CONTROL

Lid or Cover present?.....Y or N

Open or Closed?.....O or C
Manually operated.....
Automatically operated...

Thermostat Cutoff Switch..Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 1 hr/wk

Changed: 1 time per month

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0539355757 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0099241459 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0997401600
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.1994803200
Ethyl benzene	100-41-4	0.0997401600
Tetrachloroethylene	127-18-4	0.0997401600
Methyl chloroform	71-55-6	0.0997401600

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 320 (Machine Shop)	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1		
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr	
Density (calculated based on solvent type)	6.6552	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.995		
Surface Area of Degreaser (If not known enter "0")	6.66	Ft^2	
Operation of Degreaser (If not known enter "0")	52	Hrs/Yr	

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	19.85	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	19.85	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.60	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	9.97E-02	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	1.99E-01	*
Ethyl benzene	100-41-4	9.97E-02	*
Tetrachloroethylene	127-18-4	9.97E-02	*
Methyl chloroform	71-55-6	9.97E-02	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 321 (TMDE)

Permit #.....

POC.....Clint Kunkk

Inventoried by.....T. Sletten

Phone.....(607) 869-1385

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....2

Tank Size.....Safety Kleen Model 30.3R

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature..... (°F)

Dispensing Nozzle (check all appropriate)

Solid Stream.....✓

Dispersed Stream.....

Interior Drain Rack.....

Solvent Recycle Reservoir....✓

Tank Dimensions: Length....3'

Depth.....2'

Height....6"

EMISSION CONTROL

Lid or Cover present?.....Y or N

Open or Closed?.....O or C

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch..Y or N
(for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated 44 hr before (total)

Removed in June 93

CONTRACTOR INFORMATION

Contractor

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0411151304 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0075651840 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0760320000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.1520640000
Ethyl benzene	100-41-4	0.0760320000
Tetrachloroethylene	127-18-4	0.0760320000
Methyl chloroform	71-55-6	0.0760320000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 321 (TMDE)	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	2		
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr	
Density (calculated based on solvent type)	6.6552	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.995		
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2	
Operation of Degreaser (If not known enter "0")	22	Hrs/Yr	

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	15.13	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	15.13	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.46	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	7.60E-02	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	1.52E-01	*
Ethyl benzene	100-41-4	7.60E-02	*
Tetrachloroethylene	127-18-4	7.60E-02	*
Methyl chloroform	71-55-6	7.60E-02	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 323 (Shipping)

Permit #.....

POC.....Roy Wilde

Inventoried by.....T. Sletten

Phone.....(607) 869-1677

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....2

Tank Size.....

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature.....(°F)

Dispensing Nozzle (check all appropriate)

Solid Stream.....

Dispersed Stream.....

Interior Drain Rack.....

Solvent Recycle Reservoir....✓

Tank Dimensions: Length....40"

Depth.....24"

Height....24"

EMISSION CONTROL

Lid or Cover present?.....[Y] or N

Open or Closed?.....O or [C]

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch..Y or N (for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 2 hr/yr

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0041488904 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0007633958 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0076723200
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.0153446400
Ethyl benzene	100-41-4	0.0076723200
Tetrachloroethylene	127-18-4	0.0076723200
Methyl chloroform	71-55-6	0.0076723200

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 323 (Shipping)	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	2		
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr	** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr	
Density (calculated based on solvent type)	6.6552	lb/gal	
Volatile Fraction by Weight (calculated based on solvent type)	0.995		
Surface Area of Degreaser (If not known enter "0")	6.66	Ft^2	
Operation of Degreaser (If not known enter "0")	2	Hrs/Yr	

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	1.53	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	1.53	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.05	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	7.67E-03	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	1.53E-02	*
Ethyl benzene	100-41-4	7.67E-03	*
Tetrachloroethylene	127-18-4	7.67E-03	*
Methyl chloroform	71-55-6	7.67E-03	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

DEGREASING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-003-35

Unit ID #.....

Location.....Bldg 718

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

DEGREASING SOLVENT DATA

Solvent Type	NSN/MILSPEC	Quantity Used (gal/mon)	Quantity Used (gal/yr)	Quantity Disposed (gal/yr)	%VO (lb/gal)
Safety Kleen 105 Solvent					

DEGREASING UNIT DESIGN

No. of Tanks.....1

Tank Size.....Safety Kleen Model 30.3

Cold Cleaner.....

Vapor Degreaser.....

Solvent Temperature.....(°F)

Dispensing Nozzle (check all appropriate)

Solid Stream.....✓

Dispersed Stream.....

Interior Drain Rack.....

Solvent Recycle Reservoir....✓

Tank Dimensions: Length....3'

Depth.....2'

Height....6"

EMISSION CONTROL

Lid or Cover present?.....Y or N

Open or Closed?.....O or C

Manually operated.....

Automatically operated...

Thermostat Cutoff Switch..Y or N (for heated solvent)

Chiller Temperature.....

Freeboard Height.....

Carbon Absorption?.....

Incineration?.....

OPERATING PRACTICES

Materials Degreased:

Frequency/Operating Practices:

Operated: 10 hr/mnth Used only Jan-Apr in 1993 Degreaser out of service since May 1993

CONTRACTOR INFORMATION

Contractor Safety Kleen

Contractor POC

Phone No.

Contracting Officer's Representative

COR Phone Number

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.6 AND EPA AIR EMISSIONS SPECIES MANUAL AND SAFETY KLEEN

MSDS

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0373773913 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0068774400 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,1,2 - Trichloroethane	79-00-5	N/A
Toluene	108-88-3	0.0691200000
Methylene Chloride	75-09-2	N/A
Trichloroethylene	79-01-6	N/A
Hexane	110-54-3	N/A
o-Xylenes	95-47-6	N/A
Cumene	98-82-8	N/A
Naphthalene	91-20-3	N/A
m&p-Xylenes		N/A
Xylenes(Isomers)	1330-20-7	0.1382400000
Ethyl benzene	100-41-4	0.0691200000
Tetrachloroethylene	127-18-4	0.0691200000
Methyl chloroform	71-55-6	0.0691200000

^New York State HAP
(use additional sheets if necessary)

VENTILATION INFORMATION

Capture Device Present? _____ (Y or N)

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

COMMENTS

EMISSIONS FOR SOLVENT DEGREASING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/16/94
Location:	Bldg 718	Initials:	DCP
ID Number:		SCC:	4-01-003-35

INPUT DATA

Number of Degreasing Units	1	
Amount of Solvent used/unit (If not known enter "0")	0	Gal/Yr
Amount of Solvent Disposed/unit (If not known enter "0")	0	Gal/Yr
Density (calculated based on solvent type)	6.6552	lb/gal
Volatile Fraction by Weight (calculated based on solvent type)	0.995	
Surface Area of Degreaser (If not known enter "0")	6.00	Ft^2
Operation of Degreaser (If not known enter "0")	40	Hrs/Yr

** If the amount of solvent used/unit AND disposed/unit is not known then the volatile % by weight must be entered, otherwise the program will use surface area and operation time of the degreaser to calculate emissions.

Type of Degreaser: a

A - COLD DEGREASER (closed top)
B - VAPOR DEGREASER
C - CONVEYORIZED DEGREASER (Vapor)
D - CONVEYORIZED (Non-Boiling)

TYPE OF SOLVENT USED: a

A - SAFETY-KLEEN 105 SOLVENT-MS
B - 1,1,1-TRICHLOROETHANE
C - TRICHLOROFLUOROMETHANE (FREON 11)
D - 1,1,2-TRICHLOROETHANE
E - TOLUENE
F - METHYLENE CHLORIDE
G - TRICHLORETHYLENE
H - TRICHLOROTRIFLUOROETHANE (FREON 113)
I - CHLOROSOLVE
J - STODDARD SOLVENT
K - OTHER

SOLUTION

VOC EMISSIONS	13.75	Lbs/Yr

REFERENCES:
Emission Calculations based on AP-42 Emission Factors,section 4.6, Table 4.6-2 and Table 4.6-3 and Mass Balance
AP-42 Data Quality: C

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS	13.75	Lbs/Yr
TOTAL AIR TOXIC EMISSIONS	0.41	Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
1,1,2 - Trichloroethane	79-00-5	N/A	E
Toluene	108-88-3	6.91E-02	E/B/*
Methylene Chloride	75-09-2	N/A	E
Trichloroethylene	79-01-6	N/A	E
Hexane	110-54-3	N/A	B
o-Xylenes	95-47-6	N/A	B
Cumene	98-82-8	N/A	B
Naphthalene	91-20-3	N/A	B
m&p-Xylenes		N/A	B
Xylenes(Isomers)	1330-20-7	1.38E-01	*
Ethyl benzene	100-41-4	6.91E-02	*
Tetrachloroethylene	127-18-4	6.91E-02	*
Methyl chloroform	71-55-6	6.91E-02	*

^New York State HAP

* Emission Factors obtained from Safety-Kleen 105 MSDS
** SPECIATION FACTORS OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL

GASOLINE SERVICE STATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....listed below

Unit ID #.....Public Works Gas Station

Location.....Bldg 120

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Mogas - UST

*Liq Density..(W_L) 4.9 lb/gal

*Molec Weight (M_v) 62 at 60°F

*Vapor Pressure (P_{VA}) 6.9 at 60°F psia

TANK INFORMATION

Tank Size 20,000 gal

Annual Net Thruput..(Q) 136,314 gal

EVAPORATIVE EMISSIONS FROM GASOLINE SERVICE STATION OPERATIONS

Loading underground tank

	(check one)		
Submerged filling	_____ lb/10^3 gal		Note: 2 Mogas Pumps
Splash filling	_____ lb/10^3 gal	4-06-003-06	2 Nozzles Each
Balanced submerged filling	✓ lb/10^3 gal		Stage I

Underground Breathing and Emptying 1.0 lb/10^3 gal 4-06-003-07

Vehicle fueling operations

	(check one)	
Displacement losses - uncontrolled	✓ lb/10^3 gal	4-06-004-01
Displacement losses - controlled	_____ lb/10^3 gal	

Spillage - .7 lb/10^3 gal 4-06-004-02

THROUGHPUT INFORMATION (bbl)

MONTH	gal	MONTH	gal
Oct 1992	10,064	Apr	8,945
Nov	11,241	May	13,629
Dec	12,108	Jun	18,417
Jan 1993	11,584	Jul	6,229
Feb	11,654	Aug	10,905
Mar	11,051	Sep	10,487
		ANNUAL TOTALS:	136,314

MOGAS Loading Losses..... _____ VOC Emissions tpy

MOGAS Breathing Losses..... _____ VOC Emissions tpy

MOGAS Displacement Losses..... _____ VOC Emissions tpy

SPILLAGE Losses..... _____ VOC Emissions tpy

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 4.4, TABLE 4.4-7 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1,

PROFILE NO 1190

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 4.9302281370 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.8695879002 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	68.0017737956
Cumene	98-82-8	5.7392801413
Benzene	71-43-2	56.5232135130
Toluene	108-88-3	264.7025568209
Ethylbenzene	100-41-4	70.7844550763
o-Xylenes	95-47-6	111.4811688056
Styrene	100-42-5	2.9565988607
Chlorobenzene	108-90-7	0.5217527401
Naphthalene	91-20-3	13.9134064032
Xylenes(M&P)		265.7460623011
Heptane*	142-82-5	32.0008347274

* New York State HAP
(use additional sheets if necessary)

COMMENTS

EMISSIONS FROM SERVICE STATION OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/17/94
Location:	Bldg 120	Initials:	DCP
ID Number:			

(1) FILLING UNDERGROUND TANK

UNDERGROUND FILLING METHOD	submerged	(SUBMERGED/SPLASH)
STAGE I VAPOR CONTROL	yes	(YES/NO)

(2) VEHICLE REFUELING OPERATIONS
(Enter N/A, if ozone season use is unknown and zero, if no ozone season use)

TOTAL THROUGHPUT	136,314	gal/year
OZONE SEASON THROUGHPUT	35,551	gal/year
STAGE II VAPOR CONTROL	no	(YES/NO)

ENTER REFUELING EMISSION FACTOR FOR THE INSTALLATION
(See table 3-6 for factors)
1290 mg/liter

ENTER EFFICIENCY OF STAGE II VAPOR RECOVERY SYSTEM
(See table 4-2 for efficency's, use 90% if efficiency is not known)
90 % (use whole number)

SCC	Type of Loss	VOC EMISSIONS	
4-06-003-06	Filling UST Losses	40.89	lbs/year
4-06-003-07	UST Beathing/ Empting losses	136.314	lbs/year
4-06-004-01	Vehicle refueling losses	1466.55	lbs/year
4-06-004-02	Spillage losses	95.4198	lbs/year
	TOTAL VOC EMISSIONS	1739.18	lbs/year

** EMISSION FACTORS OBTAINED FROM AP-42, SECTION 4.4, TABLE4.4-7

** VEHICLE REFUELING EMISSION FACTORS TAKEN FROM EPA TECHNICAL GUIDANCE-STAGE II VAPOR RECOVERY SYSTEMS FOR CONTROL OF VEHICLE REFUELING EMISSIONS AT GASOLINE DISPENSING FACILITIES, VOLUME 1: EPA-40/3-91-022a

SPECIATION OF EMISSIONS

TOTAL VOC EMISSIONS 1,739.18 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 892.37 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	6.80E+01	B
Cumene	98-82-8	5.74E+00	B
Benzene	71-43-2	5.65E+01	B
Toluene	108-88-3	2.65E+02	B
Ethylbenzene	100-41-4	7.08E+01	B
o-Xylene	95-47-6	1.11E+02	B
Styrene	100-42-5	2.96E+00	B
Chlorobenzene	108-90-7	5.22E-01	B
Napthalene	91-20-3	1.39E+01	B
Xylenes (M & P)		2.66E+02	B
Heptane*	142-82-5	3.20E+01	B

*New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE #

GASOLINE SERVICE STATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....listed below

Unit ID #.....Lake Boat House

Location.....Bldg 2456

Permit #.....

POC.....Thomas Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

LIQUID PRODUCT INFORMATION

Stored Product Gasoline - AST

*Liq Density..(W_L) 4.9 lb/gal

*Molec Weight (M_v) 62 at 60°F

*Vapor Pressure (P_{VA}) 6.9 at 60°F psia

Tank Color - White

TANK INFORMATION

Tank Size 550 gal

Annual Net Thruput..(Q) 500 gal

EVAPORATIVE EMISSIONS FROM GASOLINE SERVICE STATION OPERATIONS

Loading aboveground tank

	(check one)		
Submerged filling	_____	lb/10^3 gal	
Splash filling	✓	lb/10^3 gal	4-06-010-07
Balanced submerged filling	_____	lb/10^3 gal	

Aboveground Breathing and Emptying _____ lb/10^3 gal 4-03-001-01

Vehicle fueling operations

	(check one)		
Displacement losses - uncontrolled	✓	lb/10^3 gal	4-06-004-01
Displacement losses - controlled	_____	lb/10^3 gal	

Spillage - .7 lb/10^3 gal 4-06-004-02

THROUGHPUT INFORMATION (bbl)

MONTH	gal	MONTH	gal
Jan		Jul	100
Feb		Aug	100
Mar		Sep	100
Apr		Oct	
May	100	Nov	
Jun	100	Dec	
		ANNUAL TOTALS:	500

MOGAS Loading Losses..... _____ VOC Emissions tpy

MOGAS Breathing Losses..... _____ VOC Emissions tpy

MOGAS Displacement Losses..... _____ VOC Emissions tpy

SPILLAGE Losses..... _____ VOC Emissions tpy

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42 , VOLUME 1, SECTION 12.3 AND EPA AIR EMISSIONS SPECIES MANUAL, VOL1, PROFILE NO 1190.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.758303	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0487419	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Hexane	110-54-3	3.811616113
Napthalene	91-20-3	0.779870304
Xylenes (M & P)		14.89552281
Benzene	71-43-2	3.168223112
Toluene	108-88-3	14.83703254
Ethyl benzene	100-41-4	3.967590174
o-Xylenes	95-47-6	6.248710814
Styrene	100-42-5	0.16572244
Cumene	98-82-8	0.321696501
Chlorobenzene	108-90-7	0.029245136
Heptane*	142-82-5	1.7937017

*New York State HAP
(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

Date Temp. Rev: 8/16/94

EMISSIONS FOR ABOVEGROUNDGASOLINE SERVICE STATIONS
(FIXED ROOF STORAGE TANK)
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/28/94
Location:	Bldg 2456	Initials:	LLN
ID Number:	Lake Boat House	SCC #	see below

CRUDE OIL STORED	no	(YES / NO)
ORIENTATION OF TANK	horizontal	(HORIZONTAL / VERTICAL)
TANK DIAMETER (D)	4	Ft
TANK LENGTH / HEIGHT (L / H)	6	Ft
ANNUAL THROUGHPUT (Q)	500	Gal / Yr
OZONE SEASON THRUPUT (Q)	300	Gal
MOLECULAR WEIGHT OF LIQUID (Mv)	62	Lb / Lb * mole
(See Enclosed Charts)		Gasoline RVP13 62AMU, 6.9 psia
		Fuel oil #2 130AMU, .0074 psia
TRUE VAPOR PRESSURE (psia)	6.90000	psia Fuel oil #6 190AMU, .00004 psia
(See Enclosed Charts)		JP-4 80AMU,1.3 psia
	Annual Average	JP-8 130AMU, 0.0085 psia
DAILY MAX AMBIENT TEMP (Tax)	55.8	Fahrenheit
DAILY MIN AMBIENT TEMP (Tan)	39.3	Fahrenheit
TANK PAINT SOLAR ABSORBANCE (a)	0.17	- -
DAILY SOLAR INSOLATION FACTOR (I)	1034	Btu / Ft^2 * Day
(See Enclosed Charts)		

FOR VERTICAL TANKS ONLY

SHAPE OF TANK ROOF	FLAT	
HEIGHT OF LIQUID IN TANK (HL)	2.85	Ft
(If not known enter 1/2 the value of tank height)		
(this template for flat roof tanks only)		

ENTER EFFICIENCY OF STAGE II VAPOR RECOVERY SYSTEM 0 %
ENTER STATE VEHICLE REFUELING EMISSION FACTOR 1290 mg/liter

SCC	TYPE OF LOSS	EMISSION RATE
4-03-001-01	STANDING STORAGE LOSS EMISSIONS	87.62 lb/yr
4-06-010-07	WORKING LOSS EMISSIONS	4.13 lb/yr
4-06-004-01	VEHICLE REFUELING LOSSES	5.38 lb/yr
4-06-004-02	SPILLAGE LOSSES	0.35 lb/yr
	TOTAL VOC EMISSIONS	97.48 lb/yr

NOTE:
The tank height does not inlcude the roof height for tanks which do not have a flat roof. Molecular weights and psia taken from AP-42 section 12.3 table 12.3-2 at 60 degrees fahrenheit. EF's for standing and working losses obtained from AP-42 section 12.3. Emission factors for spillage losses taken from AP-42 section 4.4. EF's for vehicle refueling taken from EPA Technical Guidance-Stage II vapor recovery systems for control of vehilce refuling emissions at gasoline sevice stations.

Ozone Season Data	June	July	August
Daily Max Ambient Temp (°F) (Tax)	75.6	80.2	78.2

Daily Min Ambient Temp (°F) (Tan)	56.4	61.2	59.6
Daily Solar Insolation Factor (I)	1804	1776	1513

(See Enclosed Charts)

The nearest location to Seneca listed on the charts was Buffalo, New York.

SPECIATION OF EMISSIONS

TYPE OF LIQUID STORED A

A - GASOLINE
B - JET NAPTHA (JP-4)
C - JP-8
D - FUEL OIL #2/DIESEL
E - FUEL OIL #6
F - OTHER

TOTAL VOC EMISSIONS 97.48 Lbs/Yr

TOTAL AIR TOXIC EMISSIONS 50.02 Lbs/Yr

INDIVIDUAL AIR TOXIC EMISSIONS

Chemical Name	CAS #	Emissions (Lbs/Yr)	Profile Data Quality
Hexane	110-54-3	3.81E+00	B
Cumene	98-82-8	3.22E-01	B
Benzene	71-43-2	3.17E+00	B
Toluene	108-88-3	1.48E+01	B
Ethylbenzene	100-41-4	3.97E+00	B
o-Xylene	95-47-6	6.25E+00	B
p-Xylene	106-42-3	N/A	B
m-xylene	108-38-3	N/A	B
Styrene	100-42-5	1.66E-01	B
Chlorobenzene	108-90-7	2.92E-02	B
Napthalene	91-20-3	7.80E-01	B
Xylenes (m & p)		1.49E+01	B
Heptane*	142-82-5	1.79E+00	B

*:New York State HAP

SPECIATION FACTORS FOR GASOLINE OBTAINED FROM EPA AIR EMISSIONS SPECIES MANUAL
PROFILE # 1190
SPECIATION FACTORS FOR JP-4 ARE FROM THE INSTALLATION RESTORATION
TOXICOLOGY GUIDE
DATA QUALITY RATING "AEHA" STANDS FOR AN APPROVED FUEL SPECIATION METHODOLOGY.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 94

SCC..... 2-75-020-11 Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Aircraft

DOD Designation (i.e., A-4, F-14)..... C-141

Name (i.e., Skyhawk, Tomcat)... Starlifter Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)...

Number of Power Plants (engines)... 4

Power Plant Manufacturer (i.e., G.E.)...

Power Plant Designation (i.e., J52, J65, F100)... TF33

Number of Take-offs and Landings per year... 12

Typical Duration for Landing/Take-off Cycle:

Idle: _____ min.
Take-off: _____ min.
Climbout: _____ min.
Approach: _____ min.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	2.8591304348	lb/day
NOx Emissions	0.6260869565	lb/day
CO Emissions	3.0130434783	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.5260800000	ton/yr
NOx Emissions	0.1152000000	ton/yr
CO Emissions	0.5544000000	ton/yr
SO2 Emissions	0.0180000000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.1980000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	19.8858240000
Formaldehyde	50-00-0	162.8743680000
Acetaldehyde	75-07-0	50.8193280000
Propionaldehyde	123-38-6	10.3111680000
Acrolein	107-02-8	25.0414080000
Benzene	71-43-2	21.2536320000
Toluene	108-88-3	5.7868800000
Ethylbenzene	100-41-4	1.8938880000
o-xylene	95-47-6	2.1043200000
Styrene	100-42-5	4.3138560000
Phenol	108-95-2	2.7356160000
Naphthalene	91-12-3	6.3129600000
m-Xylene and p-Xylene	-	3.1564800000
Heptane*	142-82-5	0.7365120000
Acetone*	67-64-1	25.3570560000

* New York State HAP

(use additional sheets if necessary)

REMARKS

GEOMET Technologies ,Inc.

Date Template Rev :4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-75-020-11		

TYPE OF AIRCRAFT: C-141

AIRCRAFT ALPHANUMERIC CODE: **C-141** (See AP-42, Vol. 2, Table II-1-10)

NOTES: Starlifter

NUMBER OF LANDING - TAKE-OFF CYCLES: **12** PER YEAR

EMISSION FACTORS:

CO	**92.4**	lb/LTO cycle
NOx	**19.2**	lb/LTO cycle
SOx	**3**	lb/LTO cycle
VOC	**87.68**	lb/LTO cycle
TSP	**33.00**	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**1,108.80**	**lbs/year**
NITROGEN OXIDE (NOx)	**230.40**	**lbs/year**
SULFUR OXIDE (SOX)	**36.00**	**lbs/year**
VOC(as hydrocarbon)	**1,052.16**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**396.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 1052.16 lbs/year
TOTAL PARTICULATE EMISSIONS = 396.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 342.5833 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	19.88582	B
Formaldehyde	50-00-0	162.8744	B
Acetaldehyde	75-07-0	50.81933	B
Propionaldehyde	123-38-6	10.31117	B
Acrolein	107-02-8	25.04141	B
Benzene	71-43-2	21.25363	B
Toluene	108-88-3	5.78688	B
Ethylbenzene	100-41-4	1.893888	B
o-xylene	95-47-6	2.10432	B
Styrene	100-42-5	4.313856	B
Phenol	108-95-2	2.735616	B
Naphthalene	91-12-3	6.31296	B
m-Xylene and p-Xylene		3.15648	B
Heptane*	142-82-5	0.736512	B
Acetone*	67-64-1	25.35706	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 93

SCC..... 2-75-020-11 Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Aircraft

DOD Designation (i.e., A-4, F-14)..... C-12

Name (i.e., Skyhawk, Tomcat)... Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)... Turbo prop.

Number of Power Plants (engines)... 2

Power Plant Manufacturer (i.e., G.E.)... Pratt and Whitney

Power Plant Designation (i.e., J52, J65, F100)... PT600

Number of Take-offs and Landings per year... 34

Typical Duration for Landing/Take-off Cycle:

Idle: _____ min.
Take-off: _____ min.
Climbout: _____ min.
Approach: _____ min.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1173369565	lb/day
NOx Emissions	0.0138586957	lb/day
CO Emissions	0.1598369565	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0215900000	ton/yr
NOx Emissions	0.0025500000	ton/yr
CO Emissions	0.0294100000	ton/yr
SO2 Emissions	0.0005100000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.8161020000
Formaldehyde	50-00-0	6.6842640000
Acetaldehyde	75-07-0	2.0855940000
Propionaldehyde	123-38-6	0.4231640000
Acrolein	107-02-8	1.0276840000
Benzene	71-43-2	0.8722360000
Toluene	108-88-3	0.2374900000
Ethylbenzene	100-41-4	0.0777240000
o-xylene	95-47-6	0.0863600000
Styrene	100-42-5	0.1770380000
Phenol	108-95-2	0.1122680000
Naphthalene	91-12-3	0.2590800000
m-Xylene and p-Xylene	-	0.1295400000
Heptane*	142-82-5	0.0302260000
Acetone*	67-64-1	1.0406380000

* New York State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev.:4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Airfield
SCC: 2-75-020-11

Date: 8/23/94
Initials: MJO

TYPE OF AIRCRAFT: C-12

AIRCRAFT ALPHANUMERIC CODE: T-34C (See AP-42, Vol. 2, Table II-1-10)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 34 PER YEAR

EMISSION FACTORS:

CO	1.73	lb/LTO cycle
NOx	0.15	lb/LTO cycle
SOx	0.03	lb/LTO cycle
VOC	1.27	lb/LTO cycle
TSP	0.00	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**58.82**	**lbs/year**
NITROGEN OXIDE (NOx)	**5.10**	**lbs/year**
SULFUR OXIDE (SOX)	**1.02**	**lbs/year**
VOC(as hydrocarbon)	**43.18**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 43.18 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 14.05941 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.816102	B
Formaldehyde	50-00-0	6.684264	B
Acetaldehyde	75-07-0	2.085594	B
Propionaldehyde	123-38-6	0.423164	B
Acrolein	107-02-8	1.027684	B
Benzene	71-43-2	0.872236	B
Toluene	108-88-3	0.23749	B
Ethylbenzene	100-41-4	0.077724	B
o-xylene	95-47-6	0.08636	B
Styrene	100-42-5	0.177038	B
Phenol	108-95-2	0.112268	B
Naphthalene	91-12-3	0.25908	B
m-Xylene and p-Xylene		0.12954	B
Heptane*	142-82-5	0.030226	B
Acetone*	67-64-1	1.040638	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 93

SCC..... 2-75-020-11 Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Utility Plane

DOD Designation (i.e., A-4, F-14)..... U-21

Name (i.e., Skyhawk, Tomcat)... Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)... Turbo prop.

Number of Power Plants (engines)... 2

Power Plant Manufacturer (i.e., G.E.)... Pratt and Whitney

Power Plant Designation (i.e., J52, J65, F100)... PT60

Number of Take-offs and Landings per year... 28

Typical Duration for Landing/Take-off Cycle:

Idle: _____ min.
Take-off: _____ min.
Climbout: _____ min.
Approach: _____ min.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0966304348	lb/day
NOx Emissions	0.0114130435	lb/day
CO Emissions	0.1316304348	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0177800000	ton/yr
NOx Emissions	0.0021000000	ton/yr
CO Emissions	0.0242200000	ton/yr
SO2 Emissions	0.0004200000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.6720840000
Formaldehyde	50-00-0	5.5046880000
Acetaldehyde	75-07-0	1.7175480000
Propionaldehyde	123-38-6	0.3484880000
Acrolein	107-02-8	0.8463280000
Benzene	71-43-2	0.7183120000
Toluene	108-88-3	0.1955800000
Ethylbenzene	100-41-4	0.0640080000
o-xylene	95-47-6	0.0711200000
Styrene	100-42-5	0.1457960000
Phenol	108-95-2	0.0924560000
Naphthalene	91-12-3	0.2133600000
m-Xylene and p-Xylene	-	0.1066800000
Heptane*	142-82-5	0.0248920000
Acetone*	67-64-1	0.8569960000

* New York State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev :4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Airfield
SCC: 2-75-020-41

Date: 8/23/94
Initials: MJO

TYPE OF AIRCRAFT: U-21

AIRCRAFT ALPHANUMERIC CODE: T-34C (See AP-42, Vol. 2, Table II-1-10)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 28 PER YEAR

EMISSION FACTORS:

CO	1.73	lb/LTO cycle
NOx	0.15	lb/LTO cycle
SOx	0.03	lb/LTO cycle
VOC	1.27	lb/LTO cycle
TSP	0.00	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**48.44**	**lbs/year**
NITROGEN OXIDE (NOx)	**4.20**	**lbs/year**
SULFUR OXIDE (SOX)	**0.84**	**lbs/year**
VOC(as hydrocarbon)	**35.56**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 35.56 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 11.57834 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.672084	B
Formaldehyde	50-00-0	5.504688	B
Acetaldehyde	75-07-0	1.717548	B
Propionaldehyde	123-38-6	0.348488	B
Acrolein	107-02-8	0.846328	B
Benzene	71-43-2	0.718312	B
Toluene	108-88-3	0.19558	B
Ethylbenzene	100-41-4	0.064008	B
o-xylene	95-47-6	0.07112	B
Styrene	100-42-5	0.145796	B
Phenol	108-95-2	0.092456	B
Naphthalene	91-12-3	0.21336	B
m-Xylene and p-Xylene		0.10668	B
Heptane*	142-82-5	0.024892	B
Acetone*	67-64-1	0.856996	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 94

SCC..... 2-75-020-11 Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Aircraft

DOD Designation (i.e., A-4, F-14)..... C-5A

Name (i.e., Skyhawk, Tomcat)... Galaxy Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)...

Number of Power Plants (engines)... 4

Power Plant Manufacturer (i.e., G.E.)... G.E.

Power Plant Designation (i.e., J52, J65, F100)... TF39

Number of Take-offs and Landings per year... 12

Typical Duration for Landing/Take-off Cycle:

Idle: _____ min.
Take-off: _____ min.
Climbout: _____ min.
Approach: _____ min.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.9156521739	lb/day
NOx Emissions	2.5956521739	lb/day
CO Emissions	2.6778260870	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.1684800000	ton/yr
NOx Emissions	0.4776000000	ton/yr
CO Emissions	0.4927200000	ton/yr
SO2 Emissions	0.0230400000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0247200000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	6.3685440000
Formaldehyde	50-00-0	52.1614080000
Acetaldehyde	75-07-0	16.2751680000
Propionaldehyde	123-38-6	3.3022080000
Acrolein	107-02-8	8.0196480000
Benzene	71-43-2	6.8065920000
Toluene	108-88-3	1.8532800000
Ethylbenzene	100-41-4	0.6065280000
o-xylene	95-47-6	0.6739200000
Styrene	100-42-5	1.3815360000
Phenol	108-95-2	0.8760960000
Naphthalene	91-12-3	2.0217600000
m-Xylene and p-Xylene	-	1.0108800000
Heptane*	142-82-5	0.2358720000
Acetone*	67-64-1	8.1207360000

* New York State HAP

(use additional sheets if necessary)

REMARKS

GEOMET Technologies ,Inc.

Date Template Rev.:4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-75-020-11		

TYPE OF AIRCRAFT: C-5A

AIRCRAFT ALPHANUMERIC CODE: **C-5A** (See AP-42, Vol. 2, Table II-1-10)

NOTES: Galaxy

NUMBER OF LANDING - TAKE-OFF CYCLES: **12** PER YEAR

EMISSION FACTORS:

CO	**82.12**	lb/LTO cycle
NOx	**79.6**	lb/LTO cycle
SOx	**3.84**	lb/LTO cycle
VOC	**28.08**	lb/LTO cycle
TSP	**4.12**	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**985.44**	**lbs/year**
NITROGEN OXIDE (NOx)	**955.20**	**lbs/year**
SULFUR OXIDE (SOX)	**46.08**	**lbs/year**
VOC(as hydrocarbon)	**336.96**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**49.44**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 336.96 lbs/year
TOTAL PARTICULATE EMISSIONS = 49.44 lbs/year
TOTAL AIR TOXIC EMISSIONS = 109.7142 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	6.368544	B
Formaldehyde	50-00-0	52.16141	B
Acetaldehyde	75-07-0	16.27517	B
Propionaldehyde	123-38-6	3.302208	B
Acrolein	107-02-8	8.019648	B
Benzene	71-43-2	6.806592	B
Toluene	108-88-3	1.85328	B
Ethylbenzene	100-41-4	0.606528	B
o-xylene	95-47-6	0.67392	B
Styrene	100-42-5	1.381536	B
Phenol	108-95-2	0.876096	B
Naphthalene	91-12-3	2.02176	B
m-Xylene and p-Xylene		1.01088	B
Heptane*	142-82-5	0.235872	B
Acetone*	67-64-1	8.120736	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 94

SCC..... 2-76-010-14 Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Helicopter

DOD Designation (i.e., A-4, F-14)..... UH-60

Name (i.e., Skyhawk, Tomcat)... Black Hawk Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)... Turbo prop.

Number of Power Plants (engines)... 2

Power Plant Manufacturer (i.e., G.E.)... G.E

Power Plant Designation (i.e., J52, J65, F100)... T700

Number of Take-offs and Landings per year... 2

Typical Duration for Landing/Take-off Cycle:

Idle: 15.0 min.
Take-off: min.
Climbout: 6.8 min.
Approach: 6.8 min.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0368478261	lb/day
NOx Emissions	0.0164130435	lb/day
CO Emissions	0.0735869565	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0067800000	ton/yr
NOx Emissions	0.0030200000	ton/yr
CO Emissions	0.0135400000	ton/yr
SO2 Emissions	0.0004400000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0004000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.2562840000
Formaldehyde	50-00-0	2.0990880000
Acetaldehyde	75-07-0	0.6549480000
Propionaldehyde	123-38-6	0.1328880000
Acrolein	107-02-8	0.3227280000
Benzene	71-43-2	0.2739120000
Toluene	108-88-3	0.0745800000
Ethylbenzene	100-41-4	0.0244080000
o-xylene	95-47-6	0.0271200000
Styrene	100-42-5	0.0555960000
Phenol	108-95-2	0.0352560000
Naphthalene	91-12-3	0.0813600000
m-Xylene and p-Xylene	-	0.0406800000
Heptane*	142-82-5	0.0094920000
Acetone*	67-64-1	0.3267960000

* New York State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev :4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-76-010-14		

TYPE OF AIRCRAFT: UH-60

AIRCRAFT ALPHANUMERIC CODE: HH-3 (See AP-42, Vol. 2, Table II-1-10)

NOTES: Blackhawk

NUMBER OF LANDING - TAKE-OFF CYCLES: 2 PER YEAR

EMISSION FACTORS:

CO	13.54	lb/LTO cycle
NOx	3.02	lb/LTO cycle
SOx	0.44	lb/LTO cycle
VOC	6.78	lb/LTO cycle
TSP	0.40	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**27.08**	**lbs/year**
NITROGEN OXIDE (NOx)	**6.04**	**lbs/year**
SULFUR OXIDE (SOX)	**0.88**	**lbs/year**
VOC(as hydrocarbon)	**13.56**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.80**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 13.56 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.80 lbs/year
TOTAL AIR TOXIC EMISSIONS = 4.415136 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.256284	B
Formaldehyde	50-00-0	2.099088	B
Acetaldehyde	75-07-0	0.654948	B
Propionaldehyde	123-38-6	0.132888	B
Acrolein	107-02-8	0.322728	B
Benzene	71-43-2	0.273912	B
Toluene	108-88-3	0.07458	B
Ethylbenzene	100-41-4	0.024408	B
o-xylene	95-47-6	0.02712	B
Styrene	100-42-5	0.055596	B
Phenol	108-95-2	0.035256	B
Naphthalene	91-12-3	0.08136	B
m-Xylene and p-Xylene		0.04068	B
Heptane*	142-82-5	0.009492	B
Acetone*	67-64-1	0.326796	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

AIRCRAFT TAKE-OFF/LANDING EMISSIONS

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 93

SCC..... 2-76-010-14 (2-75-020-11) Bldg/Area No..... Airfield

Date..... June 6-10, 1994 Unit ID Number...

POC..... Jon Vanderhoot Phone No.....

Type of Aircraft (i.e., Combat, Bomber, Helicopter)... Various (C-23, C-26, EH-60, G-1, OH-58 P-3, UH-1)

DOD Designation (i.e., A-4, F-14)..... See attached list for assumed information

Name (i.e., Skyhawk, Tomcat)... _____ Manufacturer (i.e., Boeing)...

Power Plant (engine) type (i.e., Turbo Prop, Turbo Fan, Turbo Shaft)...

Number of Power Plants (engines)...

Power Plant Manufacturer (i.e., G.E.)...

Power Plant Designation (i.e., J52, J65, F100)...

Number of Take-offs and Landings per year...

Typical Duration for Landing/Take-off Cycle:

Idle: _____ min.
Take-off: _____ min.
Climbout: _____ min.
Approach: _____ min.

Seneca Army Depot: Aircraft LTO

Aircraft Type	Aircraft Type Assumed Most Similar	Assumed Aircraft Power Plant Type (Model/Series)	LTO Cycles
C-23	Fairchild F27/FH227	R.Da.7	2
C-26	Fairchild F27/FH227	R.Da.7	2
EH-60	UH-60 Black Hawk (Turbo Shaft)	(2) T700-GE	8
G-1	Fairchild F27/FH227	R.Da.7	2
OH-58	UH-1H Iroquois/Huey (Turbo Shaft)	(1) T53-L-11D	4
P-3	E-3A Sentry	TF33-PW-100	12
UH-1	UH-1H Iroquois/Huey (Turbo Shaft)	T53-L-11D	190
TOTAL			**220**

Note: Nitrogen oxides reported as NO2
Note: VOCs reported as total hydrocarbons. Volatile organics include unburned hydrocarbons and organic pyroly
Note: Sulfur oxides and sulfuric acid reported as SO2

Date Template Rev.:3/31/94

Emissions For Commercial Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-75-020-11		

TYPE OF AIRCRAFT: C-23

AIRCRAFT ALPHANUMERIC CODE: **R.Da.7**
(See AP-42, Vol. 2, Table II-1-9)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 2 PER YEAR

EMISSION FACTORS:

CO	36.26	lb/LTO cycle
NOx	0.92	lb/LTO cycle
SOx	0.58	lb/LTO cycle
VOC	22.42	lb/LTO cycle
TSP	0	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**72.52**	**lbs/year**
NITROGEN OXIDE (NOx)	**1.84**	**lbs/year**
SULFUR OXIDE (SOX)	**1.16**	**lbs/year**
VOC(as hydrocarbon)	**44.84**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-9 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 44.84 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 14.1246 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.80712	B
Formaldehyde	50-00-0	6.730484	B
Acetaldehyde	75-07-0	2.08506	B
Propionaldehyde	123-38-6	0.42598	B
Acrolein	107-02-8	1.017868	B
Benzene	71-43-2	0.869896	B
Toluene	108-88-3	0.233168	B
Ethylbenzene	100-41-4	0.076228	B
o-xylene	95-47-6	0.085196	B
Styrene	100-42-5	0.174876	B
Phenol	108-95-2	0.107616	B
Naphthalene	91-12-3	0.255588	B
m-Xylene and p-Xylene		0.130036	B
Heptane*	142-82-5	0.026904	B
Acetone*	67-64-1	1.09858	B

*New York State HAP

NOTES
HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1098.

Date Template Rev.:3/31/94

EMISSION RATE DETERMINATION METHOD

ck Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-9. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1098.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1218478261	lb/day
NOx Emissions	0.0050000000	lb/day
CO Emissions	0.1970652174	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0224200000	ton/yr
Emissions	0.0009200000	ton/yr
CO Emissions	0.0362600000	ton/yr
SO2 Emissions	0.0005800000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.8071200000
Formaldehyde	50-00-0	6.7304840000
Acetaldehyde	75-07-0	2.0850600000
Propionaldehyde	123-38-6	0.4259800000
Acrolein	107-02-8	1.0178680000
Benzene	71-43-2	0.8698960000
Toluene	108-88-3	0.2331680000
Ethylbenzene	100-41-4	0.0762280000
o-xylene	95-47-6	0.0851960000
Styrene	100-42-5	0.1748760000
Phenol	108-95-2	0.1076160000
Naphthalene	91-12-3	0.2555880000
m-Xylene and p-Xylene	-	0.1300360000
Heptane*	142-82-5	0.0269040000
Acetone*	67-64-1	1.0985800000

*Virginia State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev.:3/31/94

Emissions For Commercial Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-75-020-11		

TYPE OF AIRCRAFT: C-26

AIRCRAFT ALPHANUMERIC CODE: **R.Da.7**
(See AP-42, Vol. 2, Table II-1-9)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 2 PER YEAR

EMISSION FACTORS:

CO	36.26	lb/LTO cycle
NOx	0.92	lb/LTO cycle
SOx	0.58	lb/LTO cycle
VOC	22.42	lb/LTO cycle
TSP	0	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**72.52**	**lbs/year**
NITROGEN OXIDE (NOx)	**1.84**	**lbs/year**
SULFUR OXIDE (SOX)	**1.16**	**lbs/year**
VOC(as hydrocarbon)	**44.84**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-9 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 44.84 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 14.1246 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.80712	B
Formaldehyde	50-00-0	6.730484	B
Acetaldehyde	75-07-0	2.08506	B
Propionaldehyde	123-38-6	0.42598	B
Acrolein	107-02-8	1.017868	B
Benzene	71-43-2	0.869896	B
Toluene	108-88-3	0.233168	B
Ethylbenzene	100-41-4	0.076228	B
o-xylene	95-47-6	0.085196	B
Styrene	100-42-5	0.174876	B
Phenol	108-95-2	0.107616	B
Naphthalene	91-12-3	0.255588	B
m-Xylene and p-Xylene		0.130036	B
Heptane*	142-82-5	0.026904	B
Acetone*	67-64-1	1.09858	B

*New York State HAP

NOTES
HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1098.

Date Template Rev.:3/31/94

EMISSION RATE DETERMINATION METHOD

ck Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-9. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1098.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1218478261	lb/day
NOx Emissions	0.0050000000	lb/day
CO Emissions	0.1970652174	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0224200000	ton/yr
Emissions	0.0009200000	ton/yr
CO Emissions	0.0362600000	ton/yr
SO2 Emissions	0.0005800000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.8071200000
Formaldehyde	50-00-0	6.7304840000
Acetaldehyde	75-07-0	2.0850600000
Propionaldehyde	123-38-6	0.4259800000
Acrolein	107-02-8	1.0178680000
Benzene	71-43-2	0.8698960000
Toluene	108-88-3	0.2331680000
Ethylbenzene	100-41-4	0.0762280000
o-xylene	95-47-6	0.0851960000
Styrene	100-42-5	0.1748760000
Phenol	108-95-2	0.1076160000
Naphthalene	91-12-3	0.2555880000
m-Xylene and p-Xylene	-	0.1300360000
Heptane*	142-82-5	0.0269040000
Acetone*	67-64-1	1.0985800000

*Virginia State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev :4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-76-010-14		

TYPE OF AIRCRAFT: EH-60

AIRCRAFT ALPHANUMERIC CODE: HH-3 (See AP-42, Vol. 2, Table II-1-10)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 8 PER YEAR

EMISSION FACTORS:

CO	13.54	lb/LTO cycle
NOx	3.02	lb/LTO cycle
SOx	0.44	lb/LTO cycle
VOC	6.78	lb/LTO cycle
TSP	0.40	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**108.32**	**lbs/year**
NITROGEN OXIDE (NOx)	**24.16**	**lbs/year**
SULFUR OXIDE (SOX)	**3.52**	**lbs/year**
VOC(as hydrocarbon)	**54.24**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**3.20**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 54.24 lbs/year
TOTAL PARTICULATE EMISSIONS = 3.20 lbs/year
TOTAL AIR TOXIC EMISSIONS = 17.66054 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	1.025136	B
Formaldehyde	50-00-0	8.396352	B
Acetaldehyde	75-07-0	2.619792	B
Propionaldehyde	123-38-6	0.531552	B
Acrolein	107-02-8	1.290912	B
Benzene	71-43-2	1.095648	B
Toluene	108-88-3	0.29832	B
Ethylbenzene	100-41-4	0.097632	B
o-xylene	95-47-6	0.10848	B
Styrene	100-42-5	0.222384	B
Phenol	108-95-2	0.141024	B
Naphthalene	91-12-3	0.32544	B
m-Xylene and p-Xylene		0.16272	B
Heptane*	142-82-5	0.037968	B
Acetone*	67-64-1	1.307184	B

* New York State HAP

NOTES
HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

..ack Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1473913043	lb/day
NOx Emissions	0.0656521739	lb/day
CO Emissions	0.2943478261	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0271200000	ton/yr
) \ Emissions	0.0120800000	ton/yr
CO Emissions	0.0541600000	ton/yr
SO2 Emissions	0.0017600000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0016000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	1.0251360000
Formaldehyde	50-00-0	8.3963520000
Acetaldehyde	75-07-0	2.6197920000
Propionaldehyde	123-38-6	0.5315520000
Acrolein	107-02-8	1.2909120000
Benzene	71-43-2	1.0956480000
Toluene	108-88-3	0.2983200000
Ethylbenzene	100-41-4	0.0976320000
o-xylene	95-47-6	0.1084800000
Styrene	100-42-5	0.2223840000
Phenol	108-95-2	0.1410240000
Naphthalene	91-12-3	0.3254400000
m-Xylene and p-Xylene	-	0.1627200000
Heptane*	142-82-5	0.0379680000
Acetone*	67-64-1	1.3071840000

* New York State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev.:3/31/94

Emissions For Commercial Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Airfield
SCC: 2-75-020-11

Date: 8/23/94
Initials: MJO

TYPE OF AIRCRAFT: G-1

AIRCRAFT ALPHANUMERIC CODE: **R.Da.7**
(See AP-42, Vol. 2, Table II-1-9)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 2 PER YEAR

EMISSION FACTORS:

CO	36.26	lb/LTO cycle
NOx	0.92	lb/LTO cycle
SOx	0.58	lb/LTO cycle
VOC	22.42	lb/LTO cycle
TSP	0	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**72.52**	**lbs/year**
NITROGEN OXIDE (NOx)	**1.84**	**lbs/year**
SULFUR OXIDE (SOX)	**1.16**	**lbs/year**
VOC(as hydrocarbon)	**44.84**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-9 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 44.84 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 14.1246 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.80712	B
Formaldehyde	50-00-0	6.730484	B
Acetaldehyde	75-07-0	2.08506	B
Propionaldehyde	123-38-6	0.42598	B
Acrolein	107-02-8	1.017868	B
Benzene	71-43-2	0.869896	B
Toluene	108-88-3	0.233168	B
Ethylbenzene	100-41-4	0.076228	B
o-xylene	95-47-6	0.085196	B
Styrene	100-42-5	0.174876	B
Phenol	108-95-2	0.107616	B
Naphthalene	91-12-3	0.255588	B
m-Xylene and p-Xylene		0.130036	B
Heptane*	142-82-5	0.026904	B
Acetone*	67-64-1	1.09858	B

*New York State HAP

NOTES
HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1098.

Date Template Rev.:3/31/94

EMISSION RATE DETERMINATION METHOD

.ack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 2, TABLE II-1-9. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1098.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1218478261	lb/day
NOx Emissions	0.0050000000	lb/day
CO Emissions	0.1970652174	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0224200000	ton/yr
)x Emissions	0.0009200000	ton/yr
CO Emissions	0.0362600000	ton/yr
SO2 Emissions	0.0005800000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.8071200000
Formaldehyde	50-00-0	6.7304840000
Acetaldehyde	75-07-0	2.0850600000
Propionaldehyde	123-38-6	0.4259800000
Acrolein	107-02-8	1.0178680000
Benzene	71-43-2	0.8698960000
Toluene	108-88-3	0.2331680000
Ethylbenzene	100-41-4	0.0762280000
o-xylene	95-47-6	0.0851960000
Styrene	100-42-5	0.1748760000
Phenol	108-95-2	0.1076160000
Naphthalene	91-12-3	0.2555880000
m-Xylene and p-Xylene	-	0.1300360000
Heptane*	142-82-5	0.0269040000
Acetone*	67-64-1	1.0985800000

*Virginia State HAP

(use additional sheets if necessary)

REMARKS

GEOMET Technologies ,Inc.

Date Template Rev.:4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-76-010-14		

TYPE OF AIRCRAFT: OH-58

AIRCRAFT ALPHANUMERIC CODE: **UH-1H** (See AP-42, Vol. 2, Table II-1-10)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: 4 PER YEAR

EMISSION FACTORS:

CO	1.55	lb/LTO cycle
NOx	1.19	lb/LTO cycle
SOx	0.2	lb/LTO cycle
VOC	2.53	lb/LTO cycle
TSP	0.00	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**6.20**	**lbs/year**
NITROGEN OXIDE (NOx)	**4.76**	**lbs/year**
SULFUR OXIDE (SOX)	**0.80**	**lbs/year**
VOC(as hydrocarbon)	**10.12**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 10.12 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 3.295072 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	0.191268	B
Formaldehyde	50-00-0	1.566576	B
Acetaldehyde	75-07-0	0.488796	B
Propionaldehyde	123-38-6	0.099176	B
Acrolein	107-02-8	0.240856	B
Benzene	71-43-2	0.204424	B
Toluene	108-88-3	0.05566	B
Ethylbenzene	100-41-4	0.018216	B
o-xylene	95-47-6	0.02024	B
Styrene	100-42-5	0.041492	B
Phenol	108-95-2	0.026312	B
Naphthalene	91-12-3	0.06072	B
m-Xylene and p-Xylene		0.03036	B
Heptane*	142-82-5	0.007084	B
Acetone*	67-64-1	0.243892	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

ack Test Data		Emission Factor	X	Material Balance	
Similar Unit Data		Other			

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0275000000	lb/day
NOx Emissions	0.0129347826	lb/day
CO Emissions	0.0168478261	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0050600000	ton/yr
x Emissions	0.0023800000	ton/yr
CO Emissions	0.0031000000	ton/yr
SO2 Emissions	0.0004000000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	0.1912680000
Formaldehyde	50-00-0	1.5665760000
Acetaldehyde	75-07-0	0.4887960000
Propionaldehyde	123-38-6	0.0991760000
Acrolein	107-02-8	0.2408560000
Benzene	71-43-2	0.2044240000
Toluene	108-88-3	0.0556600000
Ethylbenzene	100-41-4	0.0182160000
o-xylene	95-47-6	0.0202400000
Styrene	100-42-5	0.0414920000
Phenol	108-95-2	0.0263120000
Naphthalene	91-12-3	0.0607200000
m-Xylene and p-Xylene	-	0.0303600000
Heptane*	142-82-5	0.0070840000
Acetone*	67-64-1	0.2438920000

* New York State HAP

(use additional sheets if necessary)

REMARKS

Date Template Rev.:4/19/94

Emissions For Aircraft Take-Offs and Landings
Federal and New York State Regulations

acility:	Seneca Army Depot	Date:	8/23/94
Location:	Airfield	Initials:	MJO
SCC:	2-76-010-14		

TYPE OF AIRCRAFT: UH-1

AIRCRAFT ALPHANUMERIC CODE: **UH-1H** (See AP-42, Vol. 2, Table II-1-10)

NOTES:

NUMBER OF LANDING - TAKE-OFF CYCLES: **190** PER YEAR

EMISSION FACTORS:

CO	**1.55**	lb/LTO cycle
NOx	**1.19**	lb/LTO cycle
SOx	**0.2**	lb/LTO cycle
VOC	**2.53**	lb/LTO cycle
TSP	**0.00**	lb/LTO cycle

SOLUTION

CARBON MONOXIDE (CO)	**294.50**	**lbs/year**
NITROGEN OXIDE (NOx)	**226.10**	**lbs/year**
SULFUR OXIDE (SOX)	**38.00**	**lbs/year**
VOC(as hydrocarbon)	**480.70**	**lbs/year**
PARTICULATE EMISSIONS (TSP)	**0.00**	**lbs/year**

NOTES:
Criteria pollutant emissions factors are from AP-42, Volume 2, Table II-1-10 dated 2/80.
Data Rating not available.

TOTAL VOC EMISSIONS = 480.70 lbs/year
TOTAL PARTICULATE EMISSIONS = 0.00 lbs/year
TOTAL AIR TOXIC EMISSIONS = 156.5159 lbs/year

HAP EMISSIONS

POLLUTANT	CAS No.	EMISSIONS (LBS/YR)	RATING
1,3,Butadiene	106-99-0	9.08523	B
Formaldehyde	50-00-0	74.41236	B
Acetaldehyde	75-07-0	23.21781	B
Propionaldehyde	123-38-6	4.71086	B
Acrolein	107-02-8	11.44066	B
Benzene	71-43-2	9.71014	B
Toluene	108-88-3	2.64385	B
Ethylbenzene	100-41-4	0.86526	B
o-xylene	95-47-6	0.9614	B
Styrene	100-42-5	1.97087	B
Phenol	108-95-2	1.24982	B
Naphthalene	91-12-3	2.8842	B
m-Xylene and p-Xylene		1.4421	B
Heptane*	142-82-5	0.33649	B
Acetone*	67-64-1	11.58487	B

* New York State HAP

NOTES

HAP emissions factors are from EPA Air Emissions Species Manual, Volume 1, Profile Number 1097.

Date Template Rev.:4/19/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 2, TABLE II-1-10. SPECIATION PROFILES FROM AIR EMISSIONS SPECIES MANUAL, VOLUME 1, PROFILE NO 1097.

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	1.3062500000	lb/day
NOx Emissions	0.6144021739	lb/day
CO Emissions	0.8002717391	lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.2403500000	ton/yr
NOx Emissions	0.1130500000	ton/yr
CO Emissions	0.1472500000	ton/yr
SO2 Emissions	0.0190000000	ton/yr
PM10 Emissions	-	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
1,3,Butadiene	106-99-0	9.0852300000
Formaldehyde	50-00-0	74.4123600000
Acetaldehyde	75-07-0	23.2178100000
Propionaldehyde	123-38-6	4.7108600000
Acrolein	107-02-8	11.4406600000
Benzene	71-43-2	9.7101400000
Toluene	108-88-3	2.6438500000
Ethylbenzene	100-41-4	0.8652600000
o-xylene	95-47-6	0.9614000000
Styrene	100-42-5	1.9708700000
Phenol	108-95-2	1.2498200000
Naphthalene	91-12-3	2.8842000000
m-Xylene and p-Xylene	-	1.4421000000
Heptane*	142-82-5	0.3364900000
Acetone*	67-64-1	11.5848700000

* New York State HAP

(use additional sheets if necessary)

REMARKS

GEOMET Technologies ,Inc.

WELDING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 94

SCC..... 3-09-999-99

Building No..... 118 - GSA Auto Equip Shop

Date..... June 6-10, 1994

Unit ID Number...

POC..... Jack LaBour

Phone No..... (607) 869-1396

SOURCE INFORMATION

Welding Medium (Electrode)

Type	Amount
Super Blue X	10 lb/yr
American Alloys	
Welding Rod	

Operating Schedule

Hours/day..... 3 hr/yr

Days/week.....

Note: Welding vent is present

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 118 GSA Auto Equip. Shop
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Alloy Welding Rod** (Type of the actual rod used)

alpha/numeric code: **Haynes C-276**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **10.0** **Lbs/yr**

Fume generation rate: 14.2 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	N/A	N/A
Barium	N/A	N/A
Vanadium	N/A	N/A
Zinc	N/A	N/A
Iron	2	0.00
Magnesium	1.4	0.00
Silicon	N/A	N/A
Fluorine	5.9	0.01
Molybdenum	8.4	0.01
Copper	N/A %	N/A
Manganese Compounds	0.70 %	0.00
Chromium Compounds	5.40 %	0.01
Nickel Compounds	16.80 %	0.02
Aluminum	0.70 %	0.00

TSP Emissions	=	0.142	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.142	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.00
Chromium Compounds	0	0.01
Nickel Compounds	0	0.02
Barium*	0	N/A
Copper*	0	N/A

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000711480	ton/yr
Total Particulate	0.0000711480	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.0009960718
Chromium Compounds	0	0.0076839827
Nickel Compounds	0	0.0239057239
Barium*		N/A
Copper*		N/A

*New York State HAP
(use additional sheets if necessary)

REMARKS

WELDING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 93

SCC..... 3-09-999-99

Building No..... 117

Date..... June 6-10, 1994

Unit ID Number...

POC..... Jack LaBour

Phone No..... (607) 869-1396

SOURCE INFORMATION

Welding Medium (Electrode)

Type	Amount
Certanium Part No. 702	10 lb/yr
Certanium Part No. 247	10 lb/yr

Operating Schedule

Hours/day..... 10 hr/yr

Days/week.....

No vent

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 117
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Certanium Pt No. 702** (Type of the actual rod used)

alpha/numeric code: **E70T-1**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **10.0** **Lbs/yr**

Fume generation rate: 12.1 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	0.0022	0.00
Barium	0.0018	0.00
Vanadium	0.0045	0.00
Zinc	0.065	0.00
Iron	36.4	0.04
Magnesium	N/A	N/A
Silicon	4.2	0.01
Fluorine	2.6	0.00
Molybdenum	N/A	N/A
Copper	0.02 %	0.00
Manganese Compounds	9.20 %	0.01
Chromium Compounds	0.01 %	0.00
Nickel Compounds	0.01 %	0.00
Aluminum	0.11 %	0.00

TSP Emissions	=	0.121	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.121	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.01
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000606261	ton/yr
Total Particulate	0.0000606261	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000026675
Manganese Compounds	0	0.0111552028
Chromium Compounds	0	0.0000157628
Nickel Compounds	0	0.0000070326
Barium*		0.0000021825
Copper*		0.0000194004

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 117
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Certanium Pt No. 247** (Type of the actual rod used)

alpha/numeric code: **E70T-1**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **10.0** **Lbs/yr**

Fume generation rate: 12.1 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	0.0022	0.00
Barium	0.0018	0.00
Vanadium	0.0045	0.00
Zinc	0.065	0.00
Iron	36.4	0.04
Magnesium	N/A	N/A
Silicon	4.2	0.01
Fluorine	2.6	0.00
Molybdenum	N/A	N/A
Copper	0.02 %	0.00
Manganese Compounds	9.20 %	0.01
Chromium Compounds	0.01 %	0.00
Nickel Compounds	0.01 %	0.00
Aluminum	0.11 %	0.00

TSP Emissions	=	0.121	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.121	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.01
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000606261	ton/yr
Total Particulate	0.0000606261	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000026675
Manganese Compounds	0	0.0111552028
Chromium Compounds	0	0.0000157628
Nickel Compounds	0	0.0000070326
Barium*		0.0000021825
Copper*		0.0000194004

*New York State HAP
(use additional sheets if necessary)

REMARKS

WELDING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents..... 93

SCC..... 3-09-999-99

Building No..... 320

Date..... June 6-10, 1994

Unit ID Number...

POC..... Jim Lavoier

Phone No..... (607) 869-1434

SOURCE INFORMATION

Welding Medium (Electrode)

Type	Amount
6013	50 lb/yr
7024	20 lb/yr
7018	100 lb/yr
Aluminum Stick	5 lb/yr
Wire	20 lb/yr
Brazing Rod	3 lb/yr
Silver Solder	0.25 lb/yr

Operating Schedule

Hours/day.....

Days/week.....

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Silver Solder** (Type of the actual rod used)

alpha/numeric code: **E6010**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **0.3** **Lbs/yr**

Fume generation rate: 35.9 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	0.0029	0.00
Barium	0.001	0.00
Vanadium	0.0027	0.00
Zinc	0.029	0.00
Iron	46.2	0.00
Magnesium	N/A	N/A
Silicon	5.3	0.00
Fluorine	N/A	N/A
Molybdenum	N/A	N/A
Copper	0.15 %	0.00
Manganese Compounds	4.20 %	0.00
Chromium Compounds	0.02 %	0.00
Nickel Compounds	0.02 %	0.00
Aluminum	0.03 %	0.00

TSP Emissions	=	0.009	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.009	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.00
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000044969	ton/yr
Total Particulate	0.0000044969	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000002608
Manganese Compounds	0	0.0003777357
Chromium Compounds	0	0.0000013491
Nickel Compounds	0	0.0000015289
Barium*		0.0000000899
Copper*		0.0000132207

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **6013** (Type of the actual rod used)

alpha/numeric code: **E6013**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **50.0** **Lbs/yr**

Fume generation rate: 20 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	0.003	0.00
Barium	0.00097	0.00
Vanadium	0.012	0.00
Zinc	12	0.12
Iron	56.2	0.56
Magnesium	N/A	N/A
Silicon	12.8	0.13
Fluorine	N/A	N/A
Molybdenum	N/A	N/A
Copper	0.16 %	0.00
Manganese Compounds	4.90 %	0.05
Chromium Compounds	0.03 %	0.00
Nickel Compounds	0.02 %	0.00
Aluminum	0.18 %	0.00

TSP Emissions	=	1.002	Lbs/yr	0.001	Ton/yr
PM-10 Emissions	=	1.002	Lbs/yr	0.001	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.05
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0005010422	ton/yr
Total Particulate	0.0005010422	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000300625
Manganese Compounds	0	0.0491021324
Chromium Compounds	0	0.0003006253
Nickel Compounds	0	0.0001803752
Barium*		0.0000097202
Copper*		0.0016033349

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **7024** (Type of the actual rod used)

alpha/numeric code: **E7018**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **20.0** **Lbs/yr**

Fume generation rate: 21.1 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)		Emissions (lb/yr)
Cobalt	0.0016		0.00
Barium	0.042		0.00
Vanadium	0.0007		0.00
Zinc	0.12		0.00
Iron	26.7		0.11
Magnesium	N/A		N/A
Silicon	0.2		0.00
Fluorine	13.7		0.06
Molybdenum	N/A		N/A
Copper	0.07	%	0.00
Manganese Compounds	4.10	%	0.02
Chromium Compounds	0.02	%	0.00
Nickel Compounds	0.01	%	0.00
Aluminum	1.30	%	0.01

TSP Emissions	=	0.423	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.423	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.02
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0002114398	ton/yr
Total Particulate	0.0002114398	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000067661
Manganese Compounds	0	0.0173380632
Chromium Compounds	0	0.0001014911
Nickel Compounds	0	0.0000507456
Barium*		0.0001776094
Copper*		0.0003044733

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **7018** (Type of the actual rod used)

alpha/numeric code: **E7018**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **100.0** **Lbs/yr**

Fume generation rate: 21.1 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	0.0016	0.00
Barium	0.042	0.00
Vanadium	0.0007	0.00
Zinc	0.12	0.00
Iron	26.7	0.56
Magnesium	N/A	N/A
Silicon	0.2	0.00
Fluorine	13.7	0.29
Molybdenum	N/A	N/A
Copper	0.07 %	0.00
Manganese Compounds	4.10 %	0.09
Chromium Compounds	0.02 %	0.00
Nickel Compounds	0.01 %	0.00
Aluminum	1.30 %	0.03

TSP Emissions	=	2.114	Lbs/yr	0.001	Ton/yr
PM-10 Emissions	=	2.114	Lbs/yr	0.001	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	0.00
Manganese Compounds	0	0.09
Chromium Compounds	0	0.00
Nickel Compounds	0	0.00
Barium*	0	0.00
Copper*	0	0.00

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0010571990	ton/yr
Total Particulate	0.0010571990	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	0.0000338304
Manganese Compounds	0	0.0866903159
Chromium Compounds	0	0.0005074555
Nickel Compounds	0	0.0002537278
Barium*		0.0008880471
Copper*		0.0015223665

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Aluminum stick** (Type of the actual rod used)

alpha/numeric code: **ER5356**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **5.0** **Lbs/yr**

Fume generation rate: 72.3 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)		Emissions (lb/yr)
Cobalt	N/A		N/A
Barium	N/A		N/A
Vanadium	N/A		N/A
Zinc	N/A		N/A
Iron	N/A		N/A
Magnesium	3.8		0.01
Silicon	N/A		N/A
Fluorine	N/A		N/A
Molybdenum	N/A		N/A
Copper	N/A	%	N/A
Manganese Compounds	N/A	%	N/A
Chromium Compounds	N/A	%	N/A
Nickel Compounds	N/A	%	N/A
Aluminum	38.00	%	0.14

TSP Emissions	=	0.362	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.362	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	N/A
Manganese Compounds	0	N/A
Chromium Compounds	0	N/A
Nickel Compounds	0	N/A
Barium*	0	N/A
Copper*	0	N/A

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0001811267	ton/yr
Total Particulate	0.0001811267	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	N/A
Manganese Compounds	0	N/A
Chromium Compounds	0	N/A
Nickel Compounds	0	N/A
Barium*		N/A
Copper*		N/A

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Wire** (Type of the actual rod used)

alpha/numeric code: **E70T-5**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **20.0** **Lbs/yr**

Fume generation rate: 21 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	N/A	N/A
Barium	N/A	N/A
Vanadium	N/A	N/A
Zinc	N/A	N/A
Iron	27.95	0.12
Magnesium	N/A	N/A
Silicon	0.1	0.00
Fluorine	3.7	0.02
Molybdenum	N/A	N/A
Copper	N/A %	N/A
Manganese Compounds	11.10 %	0.05
Chromium Compounds	N/A %	N/A
Nickel Compounds	N/A %	N/A
Aluminum	N/A %	N/A

TSP Emissions	=	0.421	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.421	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.05
Chromium Compounds	0	N/A
Nickel Compounds	0	N/A
Barium*	0	N/A
Copper*	0	N/A

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0002104377	ton/yr
Total Particulate	0.0002104377	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.0467171717
Chromium Compounds	0	N/A
Nickel Compounds	0	N/A
Barium*		N/A
Copper*		N/A

*New York State HAP
(use additional sheets if necessary)

REMARKS

Emissions For Welding Operations
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Bldg 320
SCC: 3-09-999-99

Date: 8/16/94
Initials: DCP

Comment: This template should be used for each type of welding rod at an installation. Be sure to enter information into each cell below. When making assumptions for the "best fit" or "most similar" rod type, state them in the spaces provided.

Welding Rod Information:

Rod type: **Brazing rod** (Type of the actual rod used)

alpha/numeric code: **Haynes C-276**

(Choose alpha numeric code only from list provided. Enter the name (including the spaces in the name) EXACTLY as it appears on the list. Also see note below)

Notes/Assumptions:

Annual consumption: **3.0** **Lbs/yr**

Fume generation rate: 14.2 g/kg

Percentage of metal in fumes

Metal Element	Metal Composition (%)	Emissions (lb/yr)
Cobalt	N/A	N/A
Barium	N/A	N/A
Vanadium	N/A	N/A
Zinc	N/A	N/A
Iron	2	0.00
Magnesium	1.4	0.00
Silicon	N/A	N/A
Fluorine	5.9	0.00
Molybdenum	8.4	0.00
Copper	N/A %	N/A
Manganese Compounds	0.70 %	0.00
Chromium Compounds	5.40 %	0.00
Nickel Compounds	16.80 %	0.01
Aluminum	0.70 %	0.00

TSP Emissions	=	0.043	Lbs/yr	0.000	Ton/yr
PM-10 Emissions	=	0.043	Lbs/yr	0.000	Ton/yr

HAP Emissions

HAP Name	CAS #	Emissions (Lbs/yr)
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.00
Chromium Compounds	0	0.00
Nickel Compounds	0	0.01
Barium*	0	N/A
Copper*	0	N/A

* New York State HAP

References: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry; "Emission Factors for Arc Welding", R. Gerstle, et al., and "Fumes and Gases in the Welding Environment," American Welding Society.

Note: When using data for rod types Inconel 625, Haynes C-276 and Haynes 25 refer to the above the reference, to check the actual electrode type, before entering the data.

Date Template Rev.:6/6/94

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Fact X Material Balance _____

Similar Unit Data _____ Other _____

Reference: Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions 0.0000213444 ton/yr

Total Particulate 0.0000213444 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Cobalt Compounds	0	N/A
Manganese Compounds	0	0.0002988215
Chromium Compounds	0	0.0023051948
Nickel Compounds	0	0.0071717172
Barium*		N/A
Copper*		N/A

*New York State HAP
(use additional sheets if necessary)

REMARKS

ABRASIVE BLASTING

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....A2309100200

Unit ID #.....

Location.....Bldg 317

Permit #.....03171

POC.....David Nichols

Inventoried by.....T. Sletten

Phone.....(607) 869-1525

Operating Schedule
Hours/day.....3 hr/mo
Days/week.....

Inventory Date.....June 6-10, 1994

OPERATING INFORMATION

Booth Manufacturer: Wheelabrator

Booth Model No.:.....66" American Wheelabrator

Blast Nozzles:
Stationary.....
Hand-Held.....

Dimensions: L 15′ W 8′ H 8′
or Diameter_____

Automatic Recycle
Through cyclone ✓

Items Blasted (Check All Applicable):
Painted Parts...✓ Rusted Parts...✓
Clean Metal.....____ Other.....____

Purpose of blasting.....Remove rust and paint

BLAST MEDIA INFORMATION

Blast Media Used (Check One):

Walnut____ Steel Shot____ Plastic ✓ Glass____

Amount of Blast Media Added Annually:.....80 (lb/yr)

Frequency of Blast Media Additions.....2 (times/yr)

Annual Amount of Blast Media Disposed of as Waste.....____ (lb/yr)

Capacity of media feed hopper.....115 (lb)
NOTE: Uses plastic abrasive size 40-60-Type II Media

PARTICULATE CONTROL EQUIPMENT

Control Device Used (Check All that Apply):

	Control Efficiency
ESP.....	
Baghouse.....	
Cyclone.....✓	
Other.....	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AIR QUALITY PERMITS, VOL 1, SECTION 2

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions 0.0002800000 ton/yr

Total Particulate 0.0004000000 ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Ht. 25 feet

Stack Diameter 36 inch

Stack Gas Velocity 5.30 ft/sec

Stack Gas Flow Rate 2,250 ascf/min

Stack Gas Temperature 65 oF

Other sources that share this stack? Shares stack with Glove Box Unit

COMMENTS

EMISSIONS FROM UNCONFINED ABRASIVE BLASTING
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/17/94
Location:	Bldg 317	Initials:	DCP
ID Number:		SCC:	A2309100200

INPUT DATA

ABRASIVE	D	A = SAND B = GRIT C = STEEL SHOT D = OTHER
AMOUNT OF ABRASIVE USED	80	Lbs/Yr

SOLUTION

PARTICULATE EMISSIONS (TSP)**	0.80 Lbs/Yr
PARTICULATE EMISSIONS (PM10)**	0.56 Lbs/Yr

** EMISSION FACTORS OBTAINED FROM AIR QUALITY PERMITS, Vol I., Section 2.3.1, Table 2-2.

ABRASIVE BLASTING

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....A2309100200

Unit ID #.....

Location.....Bldg 360

Permit #.....03602

POC.....David Nichols

Inventoried by.....T. Sletten

Phone.....(607) 869-1525

Operating Schedule
Hours/day.....used 5 hr since Feb 1993,
Days/week.....Inactive now

Inventory Date.....June 6-10, 1994

OPERATING INFORMATION

Booth Manufacturer: Wheelabrator

Booth Model No.:.....

Blast Nozzles:
Stationary.....
Hand-Held.....

Dimensions: L 15' W 8' H 8'
or Diameter_____

Automatic Recycle
Through cyclone ✓

Items Blasted (Check All Applicable):
Painted Parts...
Rusted Parts...
Clean Metal.....
Other.....

Purpose of blasting.....Clean Fenders

BLAST MEDIA INFORMATION

Blast Media Used (Check One):

Walnut_____ Steel Shot ✓ Plastic_____ Glass_____

Amount of Blast Media Added Annually:.....Not available (lb/yr)

Frequency of Blast Media Additions..... (times/yr)

Annual Amount of Blast Media Disposed of as Waste..... (lb/yr)

Capacity of media feed hopper..... (lb)

PARTICULATE CONTROL EQUIPMENT

Control Device Used (Check All that Apply):

	Control Efficiency
ESP.....	
Baghouse.....	
Cyclone..... ✓	
Other.....	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

ABRASIVE BLASTING (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions_____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr

(use additional sheets if necessary)

STACK INFORMATION

Stack (Release) Height 18 (feet) Stack Gas Velocity 37.5 (ft/sec)

Stack Diameter 12 (inch) Stack Gas Flow Rate 2,250 (ascf/min)

Stack Gas Temperature 65 (°F)

Other sources that share this stack ? _____

_____

COMMENTS

Painting Operations VOC Emissions
for Building Number 317

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-159-4518	Enamel Primer	20.00	83.69	132.00	0.07
8010-00-597-7854	Lacquer Primer	20.00	48.38	95.79	0.05
8010-00-082-2450	Epoxy Primer - Part A	10.00	39.55	43.43	0.02
8010-00-082-2450	Epoxy Primer - Part B	10.00	82.90	57.17	0.03
8010-00-899-8825	So-Sure Zinc Chromate Primer	20.00	94.79	170.64	0.09
8010-00-527-0216	Enamel Topcoat	30.00	32.87	98.71	0.05
8010-00-584-3149	Lacquer Topcoat	30.00	84.05	197.81	0.10
8010-00-160-5794	Lacquer Thinner	30.00	100.00	199.66	0.10
8010-00-160-5794	Enamel Thinner	30.00	100.00	195.66	0.10
N/A	Mineral Spirits	30.00	100.00	198.91	0.10
N/A	Aliphatic Thinner	30.00	100.00	212.14	0.11

Ozone Season Daily Painting Operations Emissions
for Building Number 317

Pollutant	Emissions (lb)	aily Emission (lb)	Daily Emissions (tons)
VOC	1601.92	4.35	<0.01

Painting Operations HAP Emissions
for Building Number 317

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8010-00-159-4518	Enamel Primer	20.00	4.02	80.33	0.04
8010-00-597-7854	Lacquer Primer	20.00	3.96	79.20	0.04
8010-00-082-2450	Epoxy Primer - Part A	10.00	2.75	27.45	0.01
8010-00-082-2450	Epoxy Primer - Part B	10.00	3.10	31.03	0.02
8010-00-899-8825	So-Sure Zinc Chromate Primer	20.00	5.58	111.51	0.06
8010-00-527-0216	Enamel Topcoat	30.00	0.50	15.02	0.01
8010-00-584-3149	Lacquer Topcoat	30.00	3.82	114.50	0.06
8010-00-160-5794	Lacquer Thinner	30.00	5.72	171.70	0.09
8010-00-160-5794	Enamel Thinner	30.00	2.09	62.61	0.03
N/A	Aliphatic Thinner	30.00	4.17	125.16	0.06

Painting Operations HAP Emissions
for Building Number 317

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP Ethylbenzene* (%)	HAP Acetone* (%)
8010-00-159-4518	Enamel Primer	20.00	18.29	12.68		18.15
8010-00-597-7854	Lacquer Primer	20.00	5.00	5.00	5.00	
8010-00-082-2450	Epoxy Primer - Part A	10.00	5.00			
8010-00-082-2450	Epoxy Primer - Part B	10.00	15.00			
8010-00-899-8825	So-Sure Zinc Chromate Primer	20.00	15.83			6.18
8010-00-527-0216	Enamel Topcoat	30.00	5.00			
8010-00-584-3149	Lacquer Topcoat	30.00	26.76	1.60	1.60	17.09
8010-00-160-5794	Lacquer Thinner	30.00	15.00			
N/A	Enamel Thinner	30.00	11.00			
N/A	Aliphatic Thinner	30.00	10.50	7.00		

NSN	Solvent	Use (gal/yr)	HAP Chromium Compounds (%)	HAP Butyl Benzyl Phthalate* (%)	HAP Isobutyl Acetate* (%)	HAP Isopropyl Alcohol* (%)
8010-00-159-4518	Enamel Primer	20.00		1.81		
8010-00-597-7854	Lacquer Primer	20.00			20.00	5.00
8010-00-082-2450	Epoxy Primer - Part A	10.00	20.00			
8010-00-082-2450	Epoxy Primer - Part B	10.00				20.00
8010-00-899-8825	So-Sure Zinc Chromate Primer	20.00	6.53		2.61	
8010-00-160-5794	Lacquer Thinner	30.00			40.00	5.00

NSN	Solvent	Use (gal/yr)	HAP Methyl Ethyl Ketone (%)	HAP Glycol Ethers (%)	HAP Methylene Chloride (%)	HAP n-Butyl Alcohol* (%)
8010-00-082-2450	Epoxy Primer - Part B	10.00	10.00			
8010-00-899-8825	So-Sure Zinc Chromate Primer	20.00		2.61	28.18	
8010-00-584-3149	Lacquer Topcoat	30.00				1.60
8010-00-160-5794	Lacquer Thinner	30.00	10.00			
N/A	Enamel Thinner	30.00				21.00
N/A	Aliphatic Thinner	30.00	30.50			

NSN	Solvent	Use (gal/yr)	HAP N-Butyl Acetate* (%)	HAP n-Heptane* (%)	HAP Cyclohexane* (%)	HAP Hexane (%)
8010-00-584-3149	Lacquer Topcoat	30.00	11.00			
8010-00-160-5794	Lacquer Thinner	30.00		10.00	5.00	1.00

* New York State HAP

PAINTING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

Data Collected By... T. Sletten

Data Collected..... June 6-10, 1994

SCC..... 4-02-001-10

Building No..... 317 (COMIS)

Permit No./Expires..... 03172

Unit ID Number.....

POC..... David Nichols

Phone..... (607) 869-1525

Painting Schedule:
Hours/day..... 4-6 hr/day
Days/week..... 5 day/mnth

TYPE OF PAINTING

(Check all that apply)

Metal Parts..... ✓

Furniture.....

Vehicle.....

Aircraft.....

Drums.....

Architecture.....

Road Striping.....

APPLICATION METHOD

Brush.....

Spray Can.....

Dip Coat.....

Flow Coat.....

Electrodeposition

Electrostatic
- Rotating Head.....
- Nonrotational Head..
- Manual.....

Mechanical Spray
- Air Atomized.....
- Airless..... ✓

Spray Gun Manufacturer:

Spray Gun Model No.:....

PAINTING AREA

Paint Spray Booth
- Walk-in..... ✓*
- Drive Through...

Open Air
- Indoor.....
- Outdoor.....

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Dry Filter..... ✓

Waterfall.....

Incinerator....

Carbon/UV.....

Other:

PAINT TYPE/USAGE INFORMATION (INCLUDE PAINT/PRIMER/THINNER/LACQUERS)

PAINT TYPE	NSN/MILSPEC	ANNUAL USE (gal/yr)	DENSITY (lb/gal)	VOC CONTENT (%)	SOLIDS CONTENT (%)
Enamel Primer		20			
Lacquer Primer	8010-00-597-7854	20			
Epoxy Primer		20			
So Sure Zinc Chromate Primer	8010-00-899-8825	20			
Enamel Topcoat	8010-00-527-0216	30			
Lacquer Topcoat	8010-00-584-3149	30			
Lacquer Thinner	8010-00-160-5794	30			
Enamel Thinner	8010-00-160-5794	30			

* Paint Spray Booth: 10'D x 10'W x 8'H

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

PAINTING OPERATIONS (Continued)

GENERAL INFORMATION

Installation Seneca Army Depot

Data Collected By... T. Sletten

Data Collected..... June 6-10, 1994

SCC..... 4-02-001-10

Building No..... 317 (COMIS)

Permit No./Expires..... 03172

Unit ID Number.....

POC..... David Nichols

Painting Schedule:
Hours/day..... 4-6 hr/day
Days/week..... 5 day/mnth

Phone..... (607) 869-1525

PAINT TYPE/USAGE INFORMATION (INCLUDE PAINT/PRIMER/THINNER/LACQUERS)

PAINT TYPE	NSN/MILSPEC	ANNUAL USE (gal/yr)	DENSITY (lb/gal)	VOC CONTENT (%)	SOLIDS CONTENT (%)
Mineral Spirits		30			
Aliphatic Thinner		30			

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	4.3530256376	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.8009567173	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0212303176	ton/yr
Total Particulate	0.0454610655	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	219.804618000
Xylene	1330-20-7	63.529477992
Butyl Benzyl Phthalate*	85-68-7	2.854881144
Ethylbenzene	100-41-4	13.665122160
N-Butyl Acetate*	123-86-4	23.334795000
Chromium Compounds	0	33.717672348
Isobutyl Acetate*	110-19-0	124.159444476
Isopropyl Alcohol*	67-63-0	33.675312000
Cyclohexane*	110-82-7	9.982800000
Methyl Ethyl Ketone*	78-93-3	91.563073500
Glycol Ethers	0	4.698604476
Hexane	110-54-3	1.996560000
Methylene Chloride	75-09-2	50.730526488
N-Butyl Alcohol*	71-36-3	44.854716960
n-Heptane*	142-82-5	19.965600000
Acetone*	67-64-1	79.9734836070

* New York State HAP

STACK INFORMATION

Stack (release) Height	25	feet	Stack Gas Velocity	38	ft/sec
Stack Diameter	36	inch	Stack Gas Flow Rate	16,000	ascf/min
			Stack Gas Temperature	65	oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **Enamel Primer**
NSN: **8010-00-159-4518**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	**20.000**	**gal/yr**					

Specific Gravity: **0.948**

Notes:

VOC composition: **83.69** (%MSDS/Manuf.)
83.69 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **16.31** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 157.728 Lbs/yr

VOC Emissions = 132.003 Lb/yr 0.066 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 39.432 Lbs
Daily Ozone Season Usage = 0.429 Lbs/day

Ozone Season VOC Emissions = 33.001 Lbs
Daily Ozone Season VOC Emissions = **0.359** Lbs/day
Ozone Season Work Day VOC Emissions = **0.502** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 5.145 Lbs/yr 0.003 Ton/yr

PM10 Emissions = 2.403 Lbs/yr 0.001 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)
Butyl Benzyl Phthalate*	85-68-7	1.81	2.9

HAP Subtotal = 2.9 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**18.15**	28.6
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**18.29**	28.8
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**12.68**	20.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**80.33**	**Lbs/yr**
HAP Content =	**4.02**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot
Bldg #: 317 (COMIS)
SCC: 4-02-001-10
Date: 8/29/94
Initials: GRM

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Lacquer Primer
NSN: 8010-00-597-7854

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	20.000	gal/yr					

Specific Gravity: 1.190

Notes:
VOC composition: 48.38 (%MSDS/Manuf.)
48.38 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes: **VOC: (4.79 lb/gal)/(9.9 lb/gal) * 100 = 48.38%**
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 60.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 51.62 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 197.992 Lbs/yr

VOC Emissions = 95.789 Lb/yr 0.048 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 49.498 Lbs
Daily Ozone Season Usage = 0.538 Lbs/day

Ozone Season VOC Emissions = 23.947 Lbs
Daily Ozone Season VOC Emissions = **0.260** Lbs/day
Ozone Season Work Day VOC Emissions = **0.364** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 20.441 Lbs/yr 0.010 Ton/yr

PM10 Emissions = 9.546 Lbs/yr 0.005 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	5	9.9
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate*	110-19-0	20	39.6
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0	5	9.9
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	5	9.9
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	5	9.9
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**79.20**	**Lbs/yr**
HAP Content =	**3.96**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	317 (COMIS)	**Initials:**	GRM
SCC:	4-02-001-10		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Epoxy Primer - Part A
NSN: 8010-00-082-2450

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	10.000	gal/yr					

Specific Gravity: 1.320

Notes:
VOC composition: 39.55 (%MSDS/Manuf.)
39.55 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes: **VOC: (4.35 lb/gal)/(11.0 lb/gal) * 100 = 39.55%**
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 60.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 60.45 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 109.811 Lbs/yr

VOC Emissions = 43.430 Lb/yr 0.022 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 27.453 Lbs
Daily Ozone Season Usage = 0.298 Lbs/day

Ozone Season VOC Emissions = 10.858 Lbs
Daily Ozone Season VOC Emissions = **0.118** Lbs/day
Ozone Season Work Day VOC Emissions = **0.165** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 13.276 Lbs/yr 0.007 Ton/yr

PM10 Emissions = 6.200 Lbs/yr 0.003 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0	**20**	22.0
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**5**	5.5
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

HAP Total =	**27.45**	**Lbs/yr**
HAP Content =	**2.75**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Epoxy Primer - Part B
NSN: 8010-00-082-2450

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	10.000	**gal/yr**					

Specific Gravity: **0.829**

Notes:
VOC composition: **82.90** (%MSDS/Manuf.)
82.90 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes: **VOC: (5.72 lb/gal)/(6.9 lb/gal) * 100 = 82.9%**
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **17.10** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 68.965 Lbs/yr

VOC Emissions = 57.172 Lb/yr 0.029 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 17.241 Lbs
Daily Ozone Season Usage = 0.187 Lbs/day

Ozone Season VOC Emissions = 14.293 Lbs
Daily Ozone Season VOC Emissions = **0.155** Lbs/day
Ozone Season Work Day VOC Emissions = **0.218** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 2.359 Lbs/yr 0.001 Ton/yr

PM10 Emissions = 1.101 Lbs/yr 0.001 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0	**20**	13.8
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**10**	6.9
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**15**	10.3
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**31.03**	**Lbs/yr**
HAP Content =	**3.10**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Zinc Chromate Primer**
NSN: **8010-00-899-8825**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	**20.000**	**gal/yr**					

Specific Gravity: **1.082**

Notes:

VOC composition: **94.79** (%MSDS/Manuf.)
94.79 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **5.21** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 180.023 Lbs/yr

VOC Emissions = 170.644 Lb/yr 0.085 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 45.006 Lbs
Daily Ozone Season Usage = 0.489 Lbs/day

Ozone Season VOC Emissions = 42.661 Lbs
Daily Ozone Season VOC Emissions = **0.464** Lbs/day
Ozone Season Work Day VOC Emissions = **0.649** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 1.876 Lbs/yr 0.001 Ton/yr

PM10 Emissions = 0.876 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)
Glycol Ethers	0	2.61	4.7

HAP Subtotal = 4.7 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**6.18**	**11.1**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0	**6.53**	11.8
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0	**2.61**	4.7
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2	**28.18**	50.7
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**15.83**	28.5
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**111.51**	**Lbs/yr**
HAP Content =	**5.58**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **Enamel Topcoat**
NSN: **8010-00-527-0216**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: **1.203**

Notes:

VOC composition: **32.87** (%MSDS/Manuf.)
32.87 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **67.13** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 300.300 Lbs/yr

VOC Emissions = 98.709 Lb/yr 0.049 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 75.075 Lbs
Daily Ozone Season Usage = 0.816 Lbs/day

Ozone Season VOC Emissions = 24.677 Lbs
Daily Ozone Season VOC Emissions = **0.268** Lbs/day
Ozone Season Work Day VOC Emissions = **0.376** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 40.318 Lbs/yr 0.020 Ton/yr

PM10 Emissions = 18.829 Lbs/yr 0.009 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	5	15.0
Zinc compounds	0		

HAP Total =	**15.02**	**Lbs/yr**
HAP Content =	**0.50**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	317 (COMIS)	**Initials:**	GRM
SCC:	4-02-001-10		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Lacquer Topcoat
NSN: 8010-00-584-3149

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: 0.943

Notes:
VOC composition: 84.05 (%MSDS/Manuf.)
84.05 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 60.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 15.95 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 235.345 Lbs/yr

VOC Emissions = 197.807 Lb/yr 0.099 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 58.836 Lbs
Daily Ozone Season Usage = 0.640 Lbs/day

Ozone Season VOC Emissions = 49.452 Lbs
Daily Ozone Season VOC Emissions = **0.538** Lbs/day
Ozone Season Work Day VOC Emissions = **0.753** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 7.507 Lbs/yr 0.004 Ton/yr

PM10 Emissions = 3.506 Lbs/yr 0.002 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**17.09**	**40.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3	**1.6**	3.8
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.6**	3.8
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**26.76**	63.0
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.6**	3.8
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**114.50**	**Lbs/yr**
HAP Content =	**3.82**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot
Bldg #: 317 (COMIS)
SCC: 4-02-001-10
Date: 8/29/94
Initials: GRM

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Lacquer Thinner
NSN: 8010-00-160-5794

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: 0.800

Notes:
VOC composition: 100.00 (%MSDS/Manuf.)
100.00 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 60.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 0.00 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 199.656 Lbs/yr

VOC Emissions = 199.656 Lb/yr 0.100 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 49.914 Lbs
Daily Ozone Season Usage = 0.543 Lbs/day

Ozone Season VOC Emissions = 49.914 Lbs
Daily Ozone Season VOC Emissions = **0.543** Lbs/day
Ozone Season Work Day VOC Emissions = **0.760** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)
n-Heptane*	142-82-5	10	20.0
Cyclohexane*	110-82-7	5	10.0

HAP Subtotal = 29.9 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3	**1**	2.0
Isobutyl acetate*	110-19-0	**40**	79.9
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0	**5**	10.0
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**10**	20.0
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**15**	29.9
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**171.70**	**Lbs/yr**
HAP Content =	**5.72**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	317 (COMIS)	**Initials:**	GRM
SCC:	4-02-001-10		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Enamel Thinner
NSN: 8010-00-160-5794

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: 0.784

Notes:
VOC composition: 100.00 (%MSDS/Manuf.)
100.00 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 60.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 0.00 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 195.663 Lbs/yr

VOC Emissions = 195.663 Lb/yr 0.098 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 48.916 Lbs
Daily Ozone Season Usage = 0.532 Lbs/day

Ozone Season VOC Emissions = 48.916 Lbs
Daily Ozone Season VOC Emissions = **0.532** Lbs/day
Ozone Season Work Day VOC Emissions = **0.744** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3	**21**	41.1
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate*	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**11**	21.5
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**62.61**	**Lbs/yr**
HAP Content =	**2.09**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **Mineral Spirits**
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	30.000	**gal/yr**					

Specific Gravity: **0.797**

Notes:

VOC composition: **100.00** (%MSDS/Manuf.)
100.00 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **0.00** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 198.907 Lbs/yr

VOC Emissions = 198.907 Lb/yr 0.099 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 49.727 Lbs
Daily Ozone Season Usage = 0.541 Lbs/day

Ozone Season VOC Emissions = 49.727 Lbs
Daily Ozone Season VOC Emissions = **0.541** Lbs/day
Ozone Season Work Day VOC Emissions = **0.757** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate*	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **Aliphatic Thinner**
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	**30.000**	**gal/yr**					

Specific Gravity: **0.850**

Notes:

VOC composition: **100.00** (%MSDS/Manuf.)
100.00 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **0.00** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 212.135 Lbs/yr

VOC Emissions = 212.135 Lb/yr 0.106 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 53.034 Lbs
Daily Ozone Season Usage = 0.576 Lbs/day

Ozone Season VOC Emissions = 53.034 Lbs
Daily Ozone Season VOC Emissions = **0.576** Lbs/day
Ozone Season Work Day VOC Emissions = **0.807** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate*	123-86-4	**11**	23.3
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate*	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**30.5**	64.7
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**10.5**	22.3
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**7**	14.8
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**125.16**	**Lbs/yr**
HAP Content =	**4.17**	**lbs/gal**

Painting Operations VOC Emissions
for Building Number 360

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	CARC Paint	30.00	32.11	104.98	0.05

Ozone Season Daily Painting Operations Emissions
for Building Number 360

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	104.98	0.29	<0.01

Painting Operations HAP Emissions
for Building Number 360

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
N/A	CARC Paint	30.00	4.37	131.10	0.07

Painting Operations HAP Emissions
for Building Number 360

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP Butyl Acetate* (%)
N/A	CARC Paint	30.00	5.00	15.00	5.00

NSN	Solvent	Use (gal/yr)	HAP Chromium Compounds (%)	HAP Methyl Isobutyl Ketone (%)	HAP Hexamethylene-1,6-diisocyanate (%)
N/A	CARC Paint	30.00	10.00	5.00	0.10

* New York State HAP

PAINTING OPERATIONS

GENERAL INFORMATION

Installation Seneca Army Depot

Data Collected By... T. Sletten

Data Collected..... June 6-10, 1994

SCC..... 4-02-001-10

Building No..... 360

Permit No./Expires..... 03601 / 4-1-97

Unit ID Number.....

POC..... David Nichols

Phone..... (607) 869-1525

Painting Schedule:
Hours/day..... *See below
Days/week.....

TYPE OF PAINTING

(Check all that apply)

Metal Parts.....

Furniture.....

Vehicle..... Fenders

Aircraft.....

Drums..... Fuel Cells

Architecture.....

Road Striping.....

APPLICATION METHOD

Brush.....

Spray Can.....

Dip Coat.....

Flow Coat.....

Electrodeposition

Electrostatic
Rotating Head.....
Nonrotational Head..
Manual.....

Mechanical Spray
Air Atomized.....
Airless..... ✓

Spray Gun Manufacturer:

Spray Gun Model No.:....

PAINTING AREA

Paint Spray Booth
Walk-in.....
Drive Through... ✓

Open Air
Indoor.....
Outdoor.....

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Dry Filter..... ✓

Waterfall.....

Incinerator....

Carbon/UV.....

Other: Cross Draft dry filter

PAINT TYPE/USAGE INFORMATION (INCLUDE PAINT/PRIMER/THINNER/LACQUERS)

PAINT TYPE	NSN/MILSPEC	ANNUAL USE (gal/yr)	DENSITY (lb/gal)	VOC CONTENT (%)	SOLIDS CONTENT (%)
CARC Paint	8010-01-229-9561	30			

Notes: Binks Paint Spray Booth: 30'L x 15'H x 12'W
* Booth inactive since May 1994, used only twice between 2/93 and 5/94 to paint fuel cells and fenders, (2 weeks total time)

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.2852700390	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0524896872	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0103654071	ton/yr
Total Particulate	0.0221957326	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	16.3468350000
Xylene	1330-20-7	49.0405050000
Hexamethylene-1,6-diisocyanate	822-06-0	0.3269367000
Methyl Isobutyl Ketone	108-10-1	16.3468350000
N-Butyl Acetate*	123-86-4	16.3468350000
Chromium Compounds	0	32.6936700000

* New York State HAP

STACK INFORMATION

Stack (release) Height	21	feet	Stack Gas Velocity	43.4	ft/sec
Stack Diameter	34	inch	Stack Gas Flow Rate	16,400	ascf/min
			Stack Gas Temperature	65	oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**360**	**Initials:**	**GRM**
SCC:	**4-02-001-10**		

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Product/Material Information

Product: **CARC Paint**
NSN: **8010-01-229-9561**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	**30.000**	**gal/yr**					

Specific Gravity: **1.310**

Notes:
VOC composition: **32.11** (%MSDS/Manuf.)
32.11 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes: **VOC: (3.5 lb/gal)/(10.9 lb/gal) * 100 = 32.11%**
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **60.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **67.89** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 326.937 Lbs/yr

VOC Emissions = 104.979 Lb/yr 0.052 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 81.734 Lbs
Daily Ozone Season Usage = 0.888 Lbs/day

Ozone Season VOC Emissions = 26.245 Lbs
Daily Ozone Season VOC Emissions = **0.285** Lbs/day
Ozone Season Work Day VOC Emissions = **0.399** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 44.391 Lbs/yr 0.022 Ton/yr

PM10 Emissions = 20.731 Lbs/yr 0.010 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)
Hexamethylene-1,6-diisocyanate	822-06-0	0.1	0.3

HAP Subtotal = 0.3 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4	5	16.3
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0	10	32.7
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1	5	16.3
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	5	16.3
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	15	49.0
Zinc compounds	0		

HAP Total =	**131.10**	**Lbs/yr**
HAP Content =	**4.37**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 5

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-582-5382	So-Sure Flat Black Lacquer	0.40	85.82	2.58	<0.01
8010-00-548-3148	So-Sure Orange Lacquer	0.48	80.85	3.03	<0.01
8010-00-582-4743	So-Sure Obliterating	0.34	80.32	2.41	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Number 5

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	8.02	0.02	<0.01

Painting Operations HAP Emissions
for Building Number 5

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8010-00-582-5382	So-Sure Flat Black Lacquer	0.40	4.37	1.74	<0.01
8010-00-548-3148	So-Sure Orange Lacquer	0.48	3.77	1.80	<0.01
8010-00-582-4743	So-Sure Obliterating	0.34	3.38	1.14	<0.01

Painting Operations HAP Emissions
for Building Number 5

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)	HAP Acetone* (%)
8010-00-582-5382	So-Sure Flat Black Lacquer	0.40	28.32	1.21	3.64	24.87
8010-00-548-3148	So-Sure Orange Lacquer	0.48	22.09	3.07		21.31
8010-00-582-4743	So-Sure Obliterating	0.34	33.44			4.69

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95 Building No..... 5

Date..... June 6-10, 1994 Unit ID Number.....

POC..... John Hennessy Phone No..... (607) 869-1422

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-582-5382		So Sure Flat Black Lacquer	4 cans/yr (12 oz)		
8010-00-548-3148		So Sure Orange	5 cans/yr (12 oz)		
8010-00-582-4743		So Sure Obliterating	4 cans/yr (12 oz)		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0217828125	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0040080375	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0002024357	ton/yr
Total Particulate	0.0004334813	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	2.6811750000
Xylene	1330-20-7	0.1514250000
Acetone*	67-64-1	1.6859250000
Methyl Ethyl Ketone	78-93-3	0.1092000000
Ethylbenzene	100-41-4	0.0577500000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	5	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Flat Black
NSN: 8010-00-582-5382

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	4	cans/yr	at	12.000	wt.oz/can=	3.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.905

Notes:
VOC composition: 85.82 (%MSDS/Manuf.)
85.82 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 14.18 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 3.000 Lbs/yr

VOC Emissions = 2.575 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.750 Lbs
Daily Ozone Season Usage = 0.008 Lbs/day

Ozone Season VOC Emissions = 0.644 Lbs
Daily Ozone Season VOC Emissions = **0.007** Lbs/day
Ozone Season Work Day VOC Emissions = **0.010** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.213 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.099 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**24.87**	**0.7**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**3.64**	0.1
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.32**	0.8
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.21**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.74**	**Lbs/yr**
HAP Content =	**4.37**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	5	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Orange
NSN: 8010-00-584-3148

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	5	cans/yr	at	12.000	wt.oz/can=	3.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.945

Notes:

VOC composition: 80.85 (%MSDS/Manuf.)
80.85 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 19.15 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 3.750 Lbs/yr

VOC Emissions = 3.032 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.938 Lbs
Daily Ozone Season Usage = 0.010 Lbs/day

Ozone Season VOC Emissions = 0.758 Lbs
Daily Ozone Season VOC Emissions = **0.008** Lbs/day
Ozone Season Work Day VOC Emissions = **0.012** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.359 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.168 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**21.31**	**0.8**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.54**	0.1
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**22.09**	0.8
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**3.07**	0.1
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.80**	**Lbs/yr**
HAP Content =	**3.77**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	5	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Brown Obliterating Compound
NSN: 8010-00-582-4743

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	4	cans/yr	at	12.000	wt.oz/can=	3.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.067

Notes:
VOC composition: 80.32 (%MSDS/Manuf.)
80.32 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 19.68 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 3.000 Lbs/yr

VOC Emissions = 2.410 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.750 Lbs
Daily Ozone Season Usage = 0.008 Lbs/day

Ozone Season VOC Emissions = 0.602 Lbs
Daily Ozone Season VOC Emissions = **0.007** Lbs/day
Ozone Season Work Day VOC Emissions = **0.009** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.295 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.138 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**4.69**	**0.1**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol*	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**33.44**	1.0
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.14**	**Lbs/yr**
HAP Content =	**3.38**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 113

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	Latex Brown	35.00	3.01	11.83	0.01
N/A	All Weather White Exterior Paint	1.00	16.63	1.66	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Number 113

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	13.49	0.03	<0.01

Surface Coating HAP Emissions
for Building Number 113

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
N/A	Latex Brown	35.00	0.34	11.83	<0.01
N/A	All Weather White Exterior Paint	1.00	0.50	0.50	<0.01

Surface Coating HAP Emissions
for Building Number 113

NSN	Solvent	Use (gal/yr)	HAP Ethylene Glycol (%)
N/A	Latex Brown	35.00	3.01
N/A	All Weather White Exterior Paint	1.00	5.00

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC.....4-02-999-95 Building No.....113

Date.....June 6-10, 1994 Unit ID Number.....

POC.....Joe Scharett Phone No.....(607) 869-1490

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
		Devo Latex Brown	36 gal/yr		
		Devo All Weather White	1 gal/yr		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0366607711	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0067455819	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000000000	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Ethylene Glycol	107-21-1	12.3304897750

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot
Bldg #: 113
SCC: 4-02-999-95
Date: 8/26/94
Initials: GRM

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Devo Latex Brown
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	35.000	gal/yr					

Specific Gravity: 1.350

Notes:
VOC composition: 6.61 (%MSDS/Manuf.)
3.01 (%corrected for water and non-photochemical reactants.)
expressed as : A — A = % by weight, B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B — A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 93.39 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 393.073 Lbs/yr

VOC Emissions = 11.831 Lb/yr 0.006 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 98.268 Lbs
Daily Ozone Season Usage = 1.068 Lbs/day

Ozone Season VOC Emissions = 2.958 Lbs
Daily Ozone Season VOC Emissions = **0.032** Lbs/day
Ozone Season Work Day VOC Emissions = **0.045** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1	**3.01**	11.8
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**11.83**	**Lbs/yr**
HAP Content =	**0.34**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/26/94
Bldg #:	113	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: All Weather White Exterior Paint
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	1.000	gal/yr					

Specific Gravity: 1.200

Notes: **Specific Gravity: (9.98 lb/gal)/(8.319 lb/gal) = 1.20**

VOC composition: 66.63 (%MSDS/Manuf.)
16.63 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 33.37 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 9.980 Lbs/yr

VOC Emissions = 1.660 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.495 Lbs
Daily Ozone Season Usage = 0.027 Lbs/day

Ozone Season VOC Emissions = 0.415 Lbs
Daily Ozone Season VOC Emissions = **0.005** Lbs/day
Ozone Season Work Day VOC Emissions = **0.006** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1	**5**	0.5
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.50**	**Lbs/yr**
HAP Content =	**0.50**	**lbs/gal**

Surface Coating VOC Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-582-5382	So-Sure Black Paint	1.00	85.82	6.46	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Numbers 121 and 319

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	6.46	0.02	<0.01

Surface Coating HAP Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
)0-582-5382	So-Sure Black Paint	1.00	4.46	4.46	<0.01

Surface Coating HAP Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)
8010-00-582-5382	So-Sure Black Paint	1.00	28.32	1.21	3.64

NSN	Solvent	Use (gal/yr)	HAP Acetone* (%)	HAP N-Butyl Alcohol* (%)
8010-00-582-5382	So-Sure Black Paint	1.00	24.87	1.21

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95

Building No..... 117

Date..... June 6-10, 1994

Unit ID Number.....

POC..... Jack LaBour

Phone No..... (607) 869-1396

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
		So Sure Black Paint	1 gal/yr		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0175574077	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0032305630	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0001246387	ton/yr
Total Particulate	0.0002668922	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	2.1321264240
Xylene	1330-20-7	0.09109[illegible]095
Acetone*	67-64-1	1.8723864465
Methyl Eth[illegible] Ketone	78-93-3	0.2740444980
N-Butyl Alcohol*	71-36-3	0.0910972095

* New York State HAP

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/26/94
Bldg #:	117	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Black Paint
NSN: 8010-00-582-5382

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	1.000	gal/yr					

Specific Gravity: 0.905

Notes:
VOC composition: 85.82 (%MSDS/Manuf.)
85.82 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 14.18 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 7.529 Lbs/yr

VOC Emissions = 6.461 Lb/yr 0.003 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.882 Lbs
Daily Ozone Season Usage = 0.020 Lbs/day

Ozone Season VOC Emissions = 1.615 Lbs
Daily Ozone Season VOC Emissions = **0.018** Lbs/day
Ozone Season Work Day VOC Emissions = **0.025** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.534 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.249 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**24.87**	**1.9**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3	**1.21**	0.1
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**3.64**	0.3
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.32**	2.1
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.21**	0.1
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**4.46**	**Lbs/yr**
HAP Content =	**4.46**	**lbs/gal**

Surface Coating VOC Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	Gray Floor Enamel	30.00	46.50	118.37	0.06
N/A	Enamel for Boilers	15.00	42.09	56.25	0.03
N/A	Aluminum Paint for Boilers	2.00	70.87	11.67	0.01

Ozone Season Daily Surface Coating Emissions
for Building Numbers 121 and 319

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	186.29	0.51	<0.01

Surface Coating HAP Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
N/A	Enamel for Boilers	15.00	2.46	36.89	0.02
N/A	Aluminum Paint for Boilers	2.00	5.52	11.04	0.01

Surface Coating HAP Emissions
for Building Numbers 121 and 319

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP Isopropyl Alcohol* (%)
N/A	Enamel for Boilers	15.00		25.60	2.00
N/A	Aluminum Paint for Boilers	2.00	60.00	7.00	

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95

Building No..... 121; 319

Date..... June 6-10, 1994

Unit ID Number.....

POC..... George Shadman

Phone No..... (607) 869-1470

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
		Grey Enamel Floor	30 gal		
		Enamel for Boilers	15 gal		
		Aluminum Paint for Boilers	2 gal		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.5062350220	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0931472440	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000000000	ton/yr
Total Particulate	0.0000000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	9.8829720000
Xylene	1330-20-7	35.3674134000
Isopropyl Alcohol*	67-63-0	2.6730000000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/25/94
Bldg #:	121;319	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Gray Floor Enamel
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: 1.020

Notes:
VOC composition: 46.50 (%MSDS/Manuf.)
46.50 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 53.50 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 254.561 Lbs/yr

VOC Emissions = 118.371 Lb/yr 0.059 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 63.640 Lbs
Daily Ozone Season Usage = 0.692 Lbs/day

Ozone Season VOC Emissions = 29.593 Lbs
Daily Ozone Season VOC Emissions = 0.322 Lbs/day
Ozone Season Work Day VOC Emissions = 0.450 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate*	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/25/94
Bldg #:	121;319	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Enamel for Boilers
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	15.000	gal/yr					

Specific Gravity: 1.071

Notes: **Specific Gravity: (8.91 lb/gal)/(8.319 lb/gal) = 1.071**

VOC composition: 42.09 (%MSDS/Manuf.)
42.09 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes: **VOC: (3.75 lb/gal)/(8.91 lb/gal) * 100 = 42.09%**

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 57.91 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 133.650 Lbs/yr

VOC Emissions = 56.250 Lb/yr 0.028 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 33.413 Lbs
Daily Ozone Season Usage = 0.363 Lbs/day

Ozone Season VOC Emissions = 14.063 Lbs
Daily Ozone Season VOC Emissions = 0.153 Lbs/day
Ozone Season Work Day VOC Emissions = 0.214 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate*	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0	**2**	2.7
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**25.6**	34.2
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**36.89**	**Lbs/yr**
HAP Content =	**2.46**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot **Date:** 8/25/94
Bldg #: 121;319 **Initials:** GRM
SCC: 4-02-999-95

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Aluminum Paint for Boilers
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	2.000	gal/yr					

Specific Gravity: 0.990

Notes:
VOC composition: 70.87 (%MSDS/Manuf.)
70.87 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes: VOC composition and specific gravity directly from manufacturer.
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 29.13 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 16.472 Lbs/yr

VOC Emissions = 11.673 Lb/yr 0.006 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 4.118 Lbs
Daily Ozone Season Usage = 0.045 Lbs/day

Ozone Season VOC Emissions = 2.918 Lbs
Daily Ozone Season VOC Emissions = 0.032 Lbs/day
Ozone Season Work Day VOC Emissions = 0.044 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate*	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol*	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**60**	9.9
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**7**	1.2
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**11.04**	**Lbs/yr**
HAP Content =	**5.52**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 317

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-721-9749	So-Sure Lacquer - Gray	25.00	80.24	161.54	0.08
8010-00-852-9034	So-Sure Enamel - Gray	25.00	80.99	154.80	0.08

Ozone Season Daily Surface Coating Emissions
for Building Number 317

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	316.33	0.86	<0.01

Painting Operations HAP Emissions
for Building Number 317

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8010-00-721-9749	So-Sure Lacquer - Gray	25.00	3.76	94.10	0.05
[illegible]00-852-9034	So-Sure Enamel - Gray	25.00	2.64	65.94	0.03

Painting Operations HAP Emissions
for Building Number 317

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Acetone* (%)
8010-00-721-9749	So-Sure Lacquer - Gray	25.00	28.55	18.19
8010-00-852-9034	So-Sure Enamel - Gray	25.00	14.66	19.84

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95 Building No..... 317 (COMIS)

Date..... June 6-10, 1994 Unit ID Number.....

POC..... David Nichols Phone No..... (607) 869-1525

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-721-9749		So Sure Aerosol Lacquer Gray 16187	25 gal		
8010-00-852-9034		So Sure Enamel Gray	25 gal		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.8596043611	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.1581672024	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0088863586	ton/yr
Total Particulate	0.0190286050	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	85.4963179650
Acetone*	67-64-1	74.5400701800

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	317 (COMIS)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Gray
NSN: 8010-00-721-9749

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	25.000	gal/yr					

Specific Gravity: 0.968

Notes:
VOC composition: 80.24 (%MSDS/Manuf.)
80.24 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 19.76 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 201.320 Lbs/yr

VOC Emissions = 161.539 Lb/yr 0.081 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 50.330 Lbs
Daily Ozone Season Usage = 0.547 Lbs/day

Ozone Season VOC Emissions = 40.385 Lbs
Daily Ozone Season VOC Emissions = **0.439** Lbs/day
Ozone Season Work Day VOC Emissions = **0.615** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 19.890 Lbs/yr 0.010 Ton/yr

PM10 Emissions = 9.289 Lbs/yr 0.005 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**18.19**	**36.6**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.55**	57.5
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**94.10**	**Lbs/yr**
HAP Content =	**3.76**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**317 (COMIS)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Enamel - Gray**
NSN: **8010-00-852-9034**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	**25.000**	**gal/yr**					

Specific Gravity: **0.919**

Notes:

VOC composition: **80.99** (%MSDS/Manuf.)
80.99 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **19.01** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 191.129 Lbs/yr

VOC Emissions = 154.795 Lb/yr 0.077 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 47.782 Lbs
Daily Ozone Season Usage = 0.519 Lbs/day

Ozone Season VOC Emissions = 38.699 Lbs
Daily Ozone Season VOC Emissions = **0.421** Lbs/day
Ozone Season Work Day VOC Emissions = **0.589** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 18.167 Lbs/yr 0.009 Ton/yr

PM10 Emissions = 8.484 Lbs/yr 0.004 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**19.84**	**37.9**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**14.66**	28.0
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**65.94**	**Lbs/yr**
HAP Content =	**2.64**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 320

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-582-5382	So-Sure Paint	0.60	85.82	3.86	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Number 320

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	3.86	0.01	<0.01

Surface Coating HAP Emissions
for Building Number 320

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
)0-582-5382	So-Sure Paint	0.60	4.46	2.67	<0.01

Surface Coating HAP Emissions
for Building Number 320

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)
8010-00-582-5382	So-Sure Paint	0.60	28.32	1.21	3.64

NSN	Solvent	Use (gal/yr)	HAP Acetone* (%)	HAP N-Butyl Alcohol* (%)
8010-00-582-5382	So-Sure Paint	0.60	24.87	1.21

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95 Building No..... 320

Date..... June 6-10, 1994 Unit ID Number.....

POC..... Jim LaVoie Phone No.....

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
		So Sure Paint	6 cans (12 oz)		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0104942935	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0019309500	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000744982	ton/yr
Total Particulate	0.0001595250	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	1.2744000000
Xylene	1330-20-7	0.0544500000
Acetone*	67-64-1	1.1191500000
Methyl Ethyl Ketone	78-93-3	0.1638000000
N-Butyl Alcohol*	71-36-3	0.0544500000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/26/94
Bldg #:	320	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Black Paint
NSN: 8010-00-582-5382

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	6	cans/yr	at	12.000	wt.oz/can=	4.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.905

Notes:
VOC composition: 85.82 (%MSDS/Manuf.)
85.82 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 14.18 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 4.500 Lbs/yr

VOC Emissions = 3.862 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.125 Lbs
Daily Ozone Season Usage = 0.012 Lbs/day

Ozone Season VOC Emissions = 0.965 Lbs
Daily Ozone Season VOC Emissions = 0.010 Lbs/day
Ozone Season Work Day VOC Emissions = 0.015 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.319 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.149 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**24.87**	**1.1**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3	**1.21**	0.1
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**3.64**	0.2
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.32**	1.3
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.21**	0.1
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**2.67**	**Lbs/yr**
HAP Content =	**4.46**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 323

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-530-8371	Polyurethane Sealer - Gray	30.00	57.05	162.31	0.08
8010-00-F02-1048	Uline Maskout Paint - Tan	0.22	91.00	2.22	<0.01
N/A	Bostic Super Tan	7.63	7.60	6.46	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Number 323

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	170.99	0.46	<0.01

Painting Operations HAP Emissions
for Building Number 323

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8[illegible]0-530-8371	Polyurethane Sealer - Gray	30.00	2.47	73.97	<0.01
80[illegible]0-F02-1048	Uline Maskout Paint - Tan	0.22	7.69	1.71	<0.01
N/A	Bostic Super Tan	7.63	0.89	6.80	<0.01

Painting Operations HAP Emissions
for Building Number 323

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)	HAP n-Butyl Acetate* (%)
8010-00-530-8371	Polyurethane Sealer - Gray	30.00	6.00	2.00	6.00	12.00
8010-00-F02-1048	Uline Maskout Paint - Tan	0.22	10.00		30.00	

NSN	Solvent	Use (gal/yr)	HAP Acetone* (%)	HAP Zinc Oxide* (%)	HAP Ethylene Glycol (%)
8010-00-F02-1048	Uline Maskout Paint - Tan	0.22	30.00		
N[illegible]	Bostic Super Tan	7.63		3.00	5.00

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC.....4-02-999-95 Building No.....323

Date.....June 6-10, 1994 Unit ID Number.....

POC.....Roy Wilde Phone No.....(607) 869-1677

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-530-8371		Concord Polyurethane Sealer Gray	30 gal		
		Uline Maskout Paint Tan	3 cans (13 oz)		
		Bostic Super Tan	80 cans (17 oz)		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.4646493639	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0854954830	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0081601099	ton/yr
Total Particulate	0.0174734688	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	17.3143380000
Xylene	1330-20-7	5.6901960000
Acetone*	67-64-1	0.7312500000
Methyl Ethyl Ketone	78-93-3	17.8018380000
n-Butyl Acetate*	123-86-4	34.1411760000
Zinc Oxide*	1314-13-2	2.5500000000
Ethylene Glycol	107-21-1	4.2500000000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot
Bldg #: 323
SCC: 4-02-999-95
Date: 8/24/94
Initials: GRM

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Polyurethane Sealer - Gray
NSN: 8010-00-530-8371

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	30.000	gal/yr					

Specific Gravity: 1.140

Notes:
VOC composition: 57.05 (%MSDS/Manuf.)
57.05 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes: **VOC: (5.41 lb/gal)/(1.14 * 8.319 lb/gal) * 100 = 57.05**
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 42.95 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 284.510 Lbs/yr

VOC Emissions = 162.313 Lb/yr 0.081 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 71.127 Lbs
Daily Ozone Season Usage = 0.773 Lbs/day

Ozone Season VOC Emissions = 40.578 Lbs
Daily Ozone Season VOC Emissions = 0.441 Lbs/day
Ozone Season Work Day VOC Emissions = 0.617 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate*	123-86-4	**12**	34.1
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**6**	17.1
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**6**	17.1
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**2**	5.7
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**73.97**	**Lbs/yr**
HAP Content =	**2.47**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/24/94
Bldg #:	323	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Uline Maskout Paint - Tan
NSN: 8010-00-F02-1048

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	3	cans/yr	at	13.000	wt.oz/can=	2.438	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.320

Notes:

VOC composition: 91.00 (%MSDS/Manuf.)
91.00 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 9.00 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 2.438 Lbs/yr

VOC Emissions = 2.218 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.609 Lbs
Daily Ozone Season Usage = 0.007 Lbs/day

Ozone Season VOC Emissions = 0.555 Lbs
Daily Ozone Season VOC Emissions = 0.006 Lbs/day
Ozone Season Work Day VOC Emissions = 0.008 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.110 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.051 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**30**	**0.7**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**30**	0.7
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**10**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.71**	**Lbs/yr**
HAP Content =	**7.69**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/24/94
Bldg #:	323	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Tan Spray Paint
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	80	cans/yr	at	17.000	wt.oz/can=	85.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.340

Notes:
VOC composition: 18.03 (%MSDS/Manuf.)
7.60 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 81.97 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 85.000 Lbs/yr

VOC Emissions = 6.460 Lb/yr 0.003 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 21.250 Lbs
Daily Ozone Season Usage = 0.231 Lbs/day

Ozone Season VOC Emissions = 1.615 Lbs
Daily Ozone Season VOC Emissions = 0.018 Lbs/day
Ozone Season Work Day VOC Emissions = 0.025 Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 34.837 Lbs/yr 0.017 Ton/yr

PM10 Emissions = 16.269 Lbs/yr 0.008 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)
Zinc Oxide*	1314-13-2	3	2.6

HAP Subtotal = 2.6 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1	5	4.3
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3		
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**6.80**	**Lbs/yr**
HAP Content =	**0.89**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 357

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-290-6983	So-Sure Lacquer - Aerosol	0.56	82.42	3.71	<0.01

Ozone Season Daily Surface Coating Emissions
for Building Number 357

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	3.71	0.01	<0.01

Surface Coating HAP Emissions
for Building Number 357

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8(-290-6983	So-Sure Lacquer - Aerosol	0.56	3.97	2.21	<0.01

Surface Coating HAP Emissions
for Building Number 357

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP Ethylbenzene (%)	HAP Acetone* (%)
8010-00-290-6983	So-Sure Lacquer - Aerosol	0.56	26.67	1.47	1.47	19.53

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95

Building No. 357 (Mobile Heavy Equip Repair)

Date..... June 6-10, 1994

Unit ID Number.....

POC..... Tom Scoon

Phone No..... (607) 869-1493

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-584-3169		So Sure Aerosol Lacquer	6 cans (12 oz)		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0100785326	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0018544500	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0000923609	ton/yr
Total Particulate	0.0001977750	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	1.2001500000
Xylene	1330-20-7	0.0661500000
Acetone*	67-64-1	0.8788500000
Ethylbenzene	100-41-4	0.0661500000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/26/94
Bldg #:	357 (Mobile Heavy Equip. Repair)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Aerosol
NSN: 8010-00-290-6983

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	6	cans/yr	at	12.000	wt.oz/can=	4.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.971

Notes:
VOC composition: 82.42 (%MSDS/Manuf.)
82.42 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 17.58 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 4.500 Lbs/yr

VOC Emissions = 3.709 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.125 Lbs
Daily Ozone Season Usage = 0.012 Lbs/day

Ozone Season VOC Emissions = 0.927 Lbs
Daily Ozone Season VOC Emissions = **0.010** Lbs/day
Ozone Season Work Day VOC Emissions = **0.014** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.396 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.185 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**19.53**	**0.9**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.47**	0.1
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**26.67**	1.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.47**	0.1
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**2.21**	**Lbs/yr**
HAP Content =	**3.97**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 612

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-584-3149	So-Sure Lacquer - Olive Drab	1.45	84.05	8.83	<0.01
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	80.85	0.61	<0.01
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	85.82	0.64	<0.01
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	94.00	0.71	<0.01
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	24.00	91.60	168.25	0.08
8010-00-582-4743	So-Sure Sand Obliterating	0.34	80.32	2.41	<0.01
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	84.21	0.63	<0.01
8010-00-848-9272	Olive Drab Enamel - Brush	10.00	39.50	46.60	0.02

Ozone Season Daily Surface Coating Emissions
for Building Number 612

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	228.67	0.62	<0.01

Painting Operations HAP Emissions
for Building Number 612

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8010-00-584-3149	So-Sure Lacquer - Olive Drab	1.45	3.82	5.11	<0.01
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	3.77	0.36	<0.01
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	4.37	0.44	<0.01
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	4.54	0.53	<0.01
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	24.00	3.83	91.84	0.05
8010-00-582-4743	So-Sure Sand Obliterating	0.34	3.38	1.14	<0.01
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	3.82	0.37	<0.01
8010-00-848-9272	Olive Drab Enamel - Brush	10.00	1.77	17.69	0.01

Painting Operations HAP Emissions
for Building Number 612

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)	HAP Acetone* (%)
8010-00-584-3149	So-Sure Lacquer - Olive Drab	1.45	26.76	1.60		17.09
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	22.09	3.07		21.31
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	28.32	1.21	3.64	24.87
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	30.00			40.00
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	24.00	10.00			40.00
8010-00-582-4743	So-Sure Sand Obliterating	0.34	33.44			4.69
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	23.71	3.16		20.45
8010-00-848-9272	Olive Drab Enamel - Brush	10.00	5.00	5.00	5.00	

NSN	Solvent	Use (gal/yr)	HAP Ethylbenzene (%)	HAP n-Butyl Alcohol* (%)
8010-00-584-3149	So-Sure Lacquer - Olive Drab	1.45	1.60	1.60
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	1.54	
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	1.58	

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95 Building No. 612 (Ammo Maintenance)

Date..... June 6-10, 1994 Unit ID Number.....

POC..... John Hennessy Phone No..... (607) 869-1422

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-584-3149		So Sure Lacquer O.D.	14 cans (12 oz)		
8010-00-584-3148		So Sure Lacquer Orange	1 can (12 oz)		
8010-00-582-5382		So Sure Lacquer Flat Black	1 can (12 oz)		
		Marsh Spray Stencil Ink	1 can (12 oz)		
		Diagraph Stencil Ink - Roller Ink	24 gal		
8010-00-582-4743		So Sure Sand Obliterating	4 cans (12 oz)		
8010-00-141-2980		So Sure Yellow Lacquer	1 can (12 oz)		
8010-00-848-9272		O.D. Enamel Brush Application	10 gal		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.6213888729	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.1143355526	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0003127207	ton/yr
Total Particulate	0.0006696375	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	28.8604230000
Xylene	1330-20-7	6.1219710000
Acetone*	67-64-1	76.2082830000
Methyl Ethyl Ketone	78-93-3	5.9254710000
N-Butyl Alcohol*	71-36-3	0.1680000000
Ethylbenzene	100-41-4	0.1914000000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**612 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Olive Drab**
NSN: **8010-00-584-3149**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**	14	**cans/yr**	**at**	12.000	**wt.oz/can=**	10.500	**lb/yr**
OR	**c)**		**gal/yr**					

Specific Gravity: **0.943**

Notes:

VOC composition: **84.05** (%MSDS/Manuf.)
84.05 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **15.95** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 10.500 Lbs/yr

VOC Emissions = 8.825 Lb/yr 0.004 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.625 Lbs
Daily Ozone Season Usage = 0.029 Lbs/day

Ozone Season VOC Emissions = 2.206 Lbs
Daily Ozone Season VOC Emissions = **0.024** Lbs/day
Ozone Season Work Day VOC Emissions = **0.034** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.837 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.391 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**17.09**	**1.8**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3	**1.6**	0.2
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.6**	0.2
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**26.76**	2.8
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.6**	0.2
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**5.11**	**Lbs/yr**
HAP Content =	**3.82**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**612 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Orange**
NSN: **8010-00-584-3148**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**	1	**cans/yr**	**at**	12.000	**wt.oz/can=**	0.750	**lb/yr**
OR	**c)**		**gal/yr**					

Specific Gravity: **0.945**

Notes:

VOC composition: **80.85** (%MSDS/Manuf.)
80.85 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **19.15** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.606 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.152 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.072 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.034 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**21.31**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.54**	0.0
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**22.09**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**3.07**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.36**	**Lbs/yr**
HAP Content =	**3.77**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**612 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Flat Black**
NSN: **8010-00-582-5382**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	1	cans/yr	at	12.000	wt.oz/can=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: **0.905**

Notes:

VOC composition: **85.82** (%MSDS/Manuf.)
85.82 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **14.18** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.644 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.161 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.053 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.025 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**24.87**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**3.64**	0.0
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.32**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.21**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.44**	**Lbs/yr**
HAP Content =	**4.37**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot
Bldg #: 612 (Ammo Maintenance)
SCC: 4-02-999-95
Date: 8/29/94
Initials: GRM

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Marsh Spray Stencil Ink
NSN: 7510-00-183-7698

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	1	cans/yr	at	12.000	wt.oz/can=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.780

Notes:
VOC composition: 94.00 (%MSDS/Manuf.)
94.00 (%corrected for water and non-photochemical reactants.)
expressed as : A — A = % by weight, B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A — A = spray application (spray can or gun), B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present) (ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 6.00 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.705 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.176 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.003** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.023 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.011 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**40**	**0.3**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**30**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.53**	**Lbs/yr**
HAP Content =	**4.54**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	612 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Diagraph Stencil Ink - Roller Ink
NSN: 7510-00-N03-3637

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	24.000	gal/yr					

Specific Gravity: 0.920

Notes:
VOC composition: 91.60 (%MSDS/Manuf.)
91.60 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 8.40 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 183.684 Lbs/yr

VOC Emissions = 168.254 Lb/yr 0.084 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 45.921 Lbs
Daily Ozone Season Usage = 0.499 Lbs/day

Ozone Season VOC Emissions = 42.064 Lbs
Daily Ozone Season VOC Emissions = **0.457** Lbs/day
Ozone Season Work Day VOC Emissions = **0.640** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**40**	**73.5**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**10**	18.4
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**91.84**	**Lbs/yr**
HAP Content =	**3.83**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot **Date:** 8/29/94
Bldg #: 612 (Ammo Maintenance) **Initials:** GRM
SCC: 4-02-999-95

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Brown Obliterating Compound
NSN: 8010-00-582-4743

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	4	cans/yr	at	12.000	wt.oz/can=	3.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.067

Notes:
VOC composition: 80.32 (%MSDS/Manuf.)
80.32 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 19.68 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 3.000 Lbs/yr

VOC Emissions = 2.410 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.750 Lbs
Daily Ozone Season Usage = 0.008 Lbs/day

Ozone Season VOC Emissions = 0.602 Lbs
Daily Ozone Season VOC Emissions = **0.007** Lbs/day
Ozone Season Work Day VOC Emissions = **0.009** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.295 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.138 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**4.69**	**0.1**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol*	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**33.44**	1.0
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.14**	**Lbs/yr**
HAP Content =	**3.38**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	612 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Yellow
NSN: 8010-00-141-2950

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	1	cans/yr	at	12.000	wt.oz/can=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.938

Notes:
VOC composition: 84.21 (%MSDS/Manuf.)
84.21 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 15.79 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.632 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.158 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.059 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.028 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**20.45**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.58**	0.0
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**23.71**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**3.16**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.37**	**Lbs/yr**
HAP Content =	**3.82**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**612 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **Olive Drab Enamel**
NSN: **8010-00-848-9272**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**		**cans/yr**	**at**		**wt.oz/can=**	0.000	**lb/yr**
OR	**c)**	10.000	**gal/yr**					

Specific Gravity: **1.418**

Notes:
VOC composition: **39.50** (%MSDS/Manuf.)
39.50 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **B** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **60.50** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 117.963 Lbs/yr

VOC Emissions = 46.596 Lb/yr 0.023 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 29.491 Lbs
Daily Ozone Season Usage = 0.321 Lbs/day

Ozone Season VOC Emissions = 11.649 Lbs
Daily Ozone Season VOC Emissions = **0.127** Lbs/day
Ozone Season Work Day VOC Emissions = **0.177** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol*	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**5**	5.9
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**5**	5.9
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**5**	5.9
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**17.69**	**Lbs/yr**
HAP Content =	**1.77**	**lbs/gal**

Surface Coating VOC Emissions
for Building Number 2073

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
8010-00-848-9272	Olive Drab Enamel - Brush	15.00	39.50	69.89	0.03
8010-00-584-3149	So-Sure Lacquer - Olive Drab	2.17	84.05	13.24	0.01
8010-00-582-4743	So-Sure Sand Obliterating	0.51	80.32	3.61	<0.01
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	80.85	0.61	<0.01
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	85.82	0.64	<0.01
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	94.00	0.71	<0.01
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	84.21	0.63	<0.01
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	36.00	91.60	252.38	0.13

Ozone Season Daily Surface Coating Emissions
for Building Number 2073

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	341.71	0.93	<0.01

Painting Operations HAP Emissions
for Building Number 2073

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
8010-00-848-9272	Olive Drab Enamel - Brush	15.00	1.77	26.54	0.01
8010-00-584-3149	So-Sure Lacquer - Olive Drab	2.17	3.82	7.66	<0.01
8010-00-582-4743	So-Sure Sand Obliterating	0.51	3.38	1.72	<0.01
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	3.77	0.36	<0.01
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	4.37	0.44	<0.01
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	4.54	0.53	<0.01
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	3.82	0.37	<0.01
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	36.00	3.83	137.76	0.07

Painting Operations HAP Emissions
for Building Number 2073

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP Xylene (%)	HAP MEK (%)	HAP Acetone* (%)
8010-00-848-9272	Olive Drab Enamel - Brush	15.00	5.00	5.00	5.00	
8010-00-584-3149	So-Sure Lacquer - Olive Drab	2.17	26.76	1.60		17.09
8010-00-582-4743	So-Sure Sand Obliterating	0.51	33.41			4.69
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	22.09	3.07		21.31
8010-00-582-5382	So-Sure Lacquer - Flat Black	0.10	28.32	1.21	3.64	24.87
7510-00-183-7698	Marsh Spray Stencil Ink	0.12	30.00			40.00
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	23.71	3.16		20.45
7510-00-N03-3637	Diagraph Stencil Ink - Roller Ink	36.00	10.00			40.00

NSN	Solvent	Use (gal/yr)	HAP Ethylbenzene (%)	HAP n-Butyl Alcohol (%)
8010-00-584-3149	So-Sure Lacquer - Olive Drab	2.17	1.60	1.60
8010-00-584-3148	So-Sure Lacquer - Orange	0.10	1.54	
8010-00-141-2950	So-Sure Lacquer - Yellow	0.10	1.58	

* New York State HAP

SURFACE COATING/SOLVENT USAGE INFORMATION

GENERAL INFORMATION

Installation Seneca Army Depot

GEOMET Rep..... T. Sletten

Calendar Year Data Represents.....93

SCC..... 4-02-999-95

Building No. 2073 (Ammo Maintenance)

Date..... June 6-10, 1994

Unit ID Number.....

POC..... John Hennessy

Phone No..... (607) 869-1422

Please obtain the following Information

NSN	MILSPEC	Description	Qty/yr	Ozone Season Qty Used	CO Season Qty Used
8010-00-848-9272		Enamel Olive Drab (Brush)	15 gal		
8010-00-584-3149		So Sure O.D.	21 cans (12 oz)		
8010-00-582-4743		So Sure Sand Obliterating	6 cans (12 oz)		
8010-00-584-3184		So Sure Lacquer Orange	1 can (12 oz)		
8010-00-582-5382		So Sure Black	1 can (12 oz)		
		Marsh Spray Stencil Ink	1 can (12 oz)		
8010-00-141-2980		So Sure Yellow Lacquer	1 can (12 oz)		
		Diograph Stencil Ink - Roller Ink	36 gal		

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.9285689071	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.1708566789	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.0004449488	ton/yr
Total Particulate	0.0009527813	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Toluene	108-88-3	42.900184500
Xylene	1330-20-7	9.155056500
Acetone*	67-64-1	113.912562000
Methyl Ethyl Ketone	78-93-3	8.874556500
N-Butyl Alcohol*	71-36-3	0.252000000
Ethylbenzene	100-41-4	0.275400000

* New York State HAP

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	2073 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Olive Drab Enamel
NSN: 8010-00-848-9272

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	15.000	gal/yr					

Specific Gravity: 1.418

Notes:

VOC composition: 39.50 (%MSDS/Manuf.)
39.50 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 60.50 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 176.945 Lbs/yr

VOC Emissions = 69.893 Lb/yr 0.035 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 44.236 Lbs
Daily Ozone Season Usage = 0.481 Lbs/day

Ozone Season VOC Emissions = 17.473 Lbs
Daily Ozone Season VOC Emissions = **0.190** Lbs/day
Ozone Season Work Day VOC Emissions = **0.266** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1		
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol*	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	5	8.8
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	5	8.8
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	5	8.8
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**26.54**	**Lbs/yr**
HAP Content =	**1.77**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**2073 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Olive Drab**
NSN: **8010-00-584-3149**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	21	cans/yr	at	12.000	wt.oz/can=	15.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: **0.943**

Notes:

VOC composition: **84.05** (%MSDS/Manuf.)
84.05 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **15.95** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 15.750 Lbs/yr

VOC Emissions = 13.238 Lb/yr 0.007 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 3.938 Lbs
Daily Ozone Season Usage = 0.043 Lbs/day

Ozone Season VOC Emissions = 3.309 Lbs
Daily Ozone Season VOC Emissions = **0.036** Lbs/day
Ozone Season Work Day VOC Emissions = **0.050** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 1.256 Lbs/yr 0.001 Ton/yr

PM10 Emissions = 0.587 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**17.09**	**2.7**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3	**1.6**	0.3
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.6**	0.3
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**26.76**	4.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.6**	0.3
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**7.66**	**Lbs/yr**
HAP Content =	**3.82**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	2073 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Brown Obliterating Compound
NSN: 8010-00-582-4743

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	6	cans/yr	at	12.000	wt.oz/can=	4.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.067

Notes:
VOC composition: 80.32 (%MSDS/Manuf.)
80.32 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 19.68 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 4.500 Lbs/yr

VOC Emissions = 3.614 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.125 Lbs
Daily Ozone Season Usage = 0.012 Lbs/day

Ozone Season VOC Emissions = 0.904 Lbs
Daily Ozone Season VOC Emissions = **0.010** Lbs/day
Ozone Season Work Day VOC Emissions = **0.014** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.443 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.207 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**4.69**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol*	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**33.44**	1.5
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**1.72**	**Lbs/yr**
HAP Content =	**3.38**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**2073 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Orange**
NSN: **8010-00-584-3148**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**	1	**cans/yr**	**at**	12.000	**wt.oz/can=**	0.750	**lb/yr**
OR	**c)**		**gal/yr**					

Specific Gravity: **0.945**

Notes:
VOC composition: **80.85** (%MSDS/Manuf.)
80.85 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **19.15** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.606 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.152 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.072 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.034 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**21.31**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.54**	0.0
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**22.09**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**3.07**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.36**	**Lbs/yr**
HAP Content =	**3.77**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	**Seneca Army Depot**	**Date:**	**8/29/94**
Bldg #:	**2073 (Ammo Maintenance)**	**Initials:**	**GRM**
SCC:	**4-02-999-95**		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: **So-Sure Lacquer - Flat Black**
NSN: **8010-00-582-5382**

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	**a)**		**cans/yr**	**at**		**fl.oz/can=**	0.000	**gal/yr**
OR	**b)**	1	**cans/yr**	**at**	12.000	**wt.oz/can=**	0.750	**lb/yr**
OR	**c)**		**gal/yr**					

Specific Gravity: **0.905**

Notes:

VOC composition: **85.82** (%MSDS/Manuf.)
85.82 (%corrected for water and non-photochemical reactants.)
expressed as : **A** A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: **A** A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = **0.00** % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = **14.18** %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.644 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.161 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.053 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.025 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**24.87**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**3.64**	0.0
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**28.32**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**1.21**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.44**	**Lbs/yr**
HAP Content =	**4.37**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	2073 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Marsh Spray Stencil Ink
NSN: 7510-00-183-7698

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	1	cans/yr	at	12.000	wt.oz/can=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.780

Notes:
VOC composition: 94.00 (%MSDS/Manuf.)
94.00 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 6.00 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.705 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.176 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.003** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.023 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.011 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**40**	**0.3**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**30**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.53**	**Lbs/yr**
HAP Content =	**4.54**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/29/94
Bldg #:	2073 (Ammo Maintenance)	**Initials:**	GRM
SCC:	4-02-999-95		

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: So-Sure Lacquer - Yellow
NSN: 8010-00-141-2950

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	1	cans/yr	at	12.000	wt.oz/can=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.938

Notes:
VOC composition: 84.21 (%MSDS/Manuf.)
84.21 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: A A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 15.79 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.632 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.158 Lbs
Daily Ozone Season VOC Emissions = **0.002** Lbs/day
Ozone Season Work Day VOC Emissions = **0.002** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.059 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.028 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**20.45**	**0.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4	**1.58**	0.0
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**23.71**	0.2
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7	**3.16**	0.0
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**0.37**	**Lbs/yr**
HAP Content =	**3.82**	**lbs/gal**

Emissions For Painting and Surface Coating Operations
Federal and New York State Regulations

Name: Seneca Army Depot **Date:** 8/29/94
Bldg #: 2073 (Ammo Maintenance) **Initials:** GRM
SCC: 4-02-999-95

General Comments: This template should only be used for spray paints, brush applications of paint, and spray booth operations. The use of this template is not intended for process applications of paint such as assembly lines in manufacturing plants, and other major coating operations. AP-42 or other comparable documents should be consulted to determine emissions associated with these processes.

Product/Material Information

Product: Diagraph Stencil Ink - Roller Ink
NSN: 7510-00-N03-3637

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	36.000	gal/yr					

Specific Gravity: 0.920

Notes:
VOC composition: 91.60 (%MSDS/Manuf.)
91.60 (%corrected for water and non-photochemical reactants.)
expressed as : A A = % by weight
B = % by volume

Notes:
Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of non-photochemically reactive VOCs and water, if any.

Paint Application Method: B A = spray application (spray can or gun)
B = brush application

Spray Booth Filter Efficiency = 0.00 % (enter "0" if no filter is present)
(ex: dry filter = 60%, waterfall type = 85%)

Comment: Filter efficiencies vary dependant on the filter type and materials used as the filtering media. Standard dry filters, which are common at Army installations, are assumed to have a consistant 60% removal efficiency under normal operating conditions. However, consult the manufacturer if there is any uncertainty as to the removal efficiency for a particular type of spray booth.

Paint Pigment Composition = 8.40 %

Comment: Pigment composition is derived from the leftover percentage of material in the paint that is not volatile (i.e., if the total VOC component makes up 80%, then the leftover 20% is assumed to be pigment).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 275.525 Lbs/yr

VOC Emissions = 252.381 Lb/yr 0.126 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 68.881 Lbs
Daily Ozone Season Usage = 0.749 Lbs/day

Ozone Season VOC Emissions = 63.095 Lbs
Daily Ozone Season VOC Emissions = **0.686** Lbs/day
Ozone Season Work Day VOC Emissions = **0.960** Lbs/wrk day

Annual Particulate Matter Emissions

TSP Emissions = 0.000 Lbs/yr 0.000 Ton/yr

PM10 Emissions = 0.000 Lbs/yr 0.000 Ton/yr

HAP Emissions: Estimation of HAP emissions are broken into two categories. The first, on the following page, lists common HAPs associated with painting and surface coating. Enter the composition of each HAP in the columns provided for those HAPs listed. If the HAP is not listed, then enter the name of the HAP and %compositon in the spaces below.

HAP Name	CAS No	(% Composition)	Emissions (Lbs/yr)

HAP Subtotal = 0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	**40**	**110.2**
Barium compounds	0		
Benzene	71-43-2		
Butoxy ethanol, 2-	111-76-2		
Butyl acetate	123-86-4		
Butyl alcohol, n-*	71-36-3		
Calcium carbonate	1317-65-3		
Carbon black	13333-86-4		
Chromium compounds	0		
Cobalt compounds	0		
Cumene	98-82-8		
Dichlorodifluoromethane	75-71-8		
Ethoxyethyl acetate, 2-	111-15-9		
Ethyl acetate	141-78-6		
Ethyl alcohol	64-17-5		
Ethyl-3-ethoxy propionate	763-69-9		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Hexane	110-54-3		
Isobutyl acetate	110-19-0		
Isobutyl alcohol	78-83-1		
Isopropyl alcohol	67-63-0		
Lead compounds	0		
Magnesium silicate	1343-90-4		
Methyl Alcohol	67-56-1		
Methoxyethanol, 2-	109-86-4		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methylene chloride	75-09-2		
Phenol	108-95-2		
Phenylmercuric acetate	62-38-4		
Propane	74-98-6		
Propyl acetate	109-60-4		
Propylene glycol monomethyl ether	107-98-2		
Tetrachloroethylene	127-18-4		
Titanium dioxide	13463-67-7		
Toluene	108-88-3	**10**	27.6
Toluene-diisocyanate -2,4	584-84-9		
Xylene	1330-20-7		
Zinc compounds	0		

*** New York State HAP**

HAP Total =	**137.76**	**Lbs/yr**
HAP Content =	**3.83**	**lbs/gal**

Miscellaneous Chemical VOC Emissions
for Building Number 113 - Box and Crate Shop

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	0.29	42.00	0.95	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 113 - Box and Crate Shop

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	0.95	<0.01	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 113 - Box and Crate Shop

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
)0-529-7222	CRC 5-56	0.29	2.25	0.65	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 113 - Box and Crate Shop

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)
9150-00-529-7222	CRC 5-56	0.29	29.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 113

Permit #.....

POC.....Joe Scharette

Inventoried by.....T. Sletten

Phone.....(607) 869-1490

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Box and Crate Shop

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 3 cns/yr (12 oz)

Annual Disposal _____

Product Name _____

NSN _____

MILSPEC _____

Annual Use _____

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0025679348	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0004725000	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	0.6525000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	113 - Box and Crate Shop	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	3	cans/yr	at	12.000	wt.oz/can=	2.250	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 2.250 Lbs/yr

VOC Emissions = 0.945 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.563 Lbs
Daily Ozone Season Usage = 0.006 Lbs/day

Ozone Season VOC Emissions = 0.236 Lbs
Daily Ozone Season VOC Emissions = 0.003 Lbs/day
Ozone Season Work Day Emissions = 0.004 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	0.653
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.65**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Security

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
6850-00-224-6663	Rifle Bore Cleaner	3.50	100.00	26.21	0.01
9150-01-054-6453	CLP	1.00	18.00	1.32	<0.01
9150-00-273-2389	PL-S	0.48	54.00	1.89	<0.01
6850-00-022-4605	Rifle Bore Cleaner	1.45	85.00	8.93	<0.01
9150-00-889-3522	LSA	0.08	66.28	0.50	<0.01
6850-00-224-6656	Rifle Bore Cleaner	0.05	100.00	0.38	<0.01
9150-00-935-6597	LSA	0.26	54.00	1.01	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Security

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	40.22	0.11	<0.01

Miscellaneous Chemical HAP Emissions
for Security

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-889-3522	LSA	0.08	4.35	0.34	<0.01

Miscellaneous Chemical HAP Emissions
for Security

NSN	Solvent	Use (gal/yr)	HAP Toluene (%)	HAP MEK (%)	HAP Antimony Cmpd (%)
9150-00-889-3522	LSA	0.08	10.00	25.00	10.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Unit ID #.....

Location..... Security

Permit #.....

POC..... William Plate

Inventoried by..... T. Sletten

Phone..... (607) 869-1228

Operating Schedule

Inventory Date..... June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Weapons Training and Cleaning

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name Rifle Bore Cleaner

NSN 6850-00-224-6663

MILSPEC

Annual Use 5 gal

Annual Disposal

Product Name CLP

NSN 9150-01-054-6453

MILSPEC

Annual Use 8 pt

Annual Disposal

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

MISCELLANEOUS CHEMICAL SOURCES (Continuation sheet) Page___ of ___

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01 Unit ID #.....

Location.....Security Permit #.....

POC.....William Plate Inventoried by.....T. Sletten

Phone.....(607) 869-1228 Inventory Date.....June 6-10, 1994

Product Name	NSN	MILSPEC	Annual Use/Units	Annual Disposal/Units
PL-S	9150-00-273-2389		14 cns (4 oz)	
Rifle Bore Cleaner	6850-00-022-460[illegible]		21 cns (8 oz)	
LSA	9150-00-889-3522		3 btl (4 oz)	
Rifle Bore Cleaner	6850-00-224-6656		3 btl (2 oz)	
LSA	9150-00-935-6597		15 btl (2 oz)	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1092994011	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0201110898	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Antimony Compounds	0	0.0750000000
Methyl Ethyl Ketone	78-93-3	0.1875000000
Toluene	108-88-3	0.0750000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Rifle Bore Cleaner
NSN: 6850-00-224-6663

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	3.500	gal/yr					

Specific Gravity: 0.900

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 100.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 26.205 Lbs/yr

VOC Emissions = 26.205 Lb/yr 0.013 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 6.551 Lbs
Daily Ozone Season Usage = 0.071 Lbs/day

Ozone Season VOC Emissions = 6.551 Lbs
Daily Ozone Season VOC Emissions = 0.071 Lbs/day
Ozone Season Work Day Emissions = 0.100 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CLP
NSN: 9150-01-054-6453

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	1.000	gal/yr					

Specific Gravity: 0.880

Notes:
VOC composition: 18.00 %(MSDS/Manuf.)
VOC Composition: 18.00 %(corrected for water and non-photochemical reactants)

expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 7.321 Lbs/yr

VOC Emissions = 1.318 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.830 Lbs
Daily Ozone Season Usage = 0.020 Lbs/day

Ozone Season VOC Emissions = 0.329 Lbs
Daily Ozone Season VOC Emissions = 0.004 Lbs/day
Ozone Season Work Day Emissions = 0.005 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: PL-S
NSN: 9150-00-273-2389

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	14	cans/yr	at	4.000	wt.oz/can=	3.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.880

Notes:

VOC composition: 54.00 %(MSDS/Manuf.)
VOC Composition: 54.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 3.500 Lbs/yr

VOC Emissions = 1.890 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.875 Lbs
Daily Ozone Season Usage = 0.010 Lbs/day

Ozone Season VOC Emissions = 0.473 Lbs
Daily Ozone Season VOC Emissions = 0.005 Lbs/day
Ozone Season Work Day Emissions = 0.007 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/30/94
Bldg #:	Security	**Initials:**	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Rifle Bore Cleaner
NSN: 6850-00-022-4605

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	21	cans/yr	at	8.000	wt.oz/can=	10.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.870

Notes:
VOC composition: 85.00 %(MSDS/Manuf.)
VOC Composition: 85.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 10.500 Lbs/yr

VOC Emissions = 8.925 Lb/yr 0.004 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.625 Lbs
Daily Ozone Season Usage = 0.029 Lbs/day

Ozone Season VOC Emissions = 2.231 Lbs
Daily Ozone Season VOC Emissions = 0.024 Lbs/day
Ozone Season Work Day Emissions = 0.034 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: LSA
NSN: 9150-00-889-3522

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	3	btls/yr	at	4.000	wt.oz/btl=	0.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.161

Notes: Specific Gravity: (9.66 lb/gal)/(8.319 lb/gal) = 1.161

VOC composition: 66.28 %(MSDS/Manuf.)

VOC Composition: 66.28 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.750 Lbs/yr

VOC Emissions = 0.497 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.188 Lbs
Daily Ozone Season Usage = 0.002 Lbs/day

Ozone Season VOC Emissions = 0.124 Lbs
Daily Ozone Season VOC Emissions = 0.001 Lbs/day
Ozone Season Work Day Emissions = 0.002 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
Antimony Compound	0	10	0.075
		HAP Subtotal =	0.1 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**25**	0.188
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3	**10**	0.075
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.34**	**Lbs/yr**
HAP Content =	**4.35**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Rifle Bore Cleaner
NSN: 6850-00-224-6656

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	3	btls/yr	at	2.000	wt.oz/btl=	0.375	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.900

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 100.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 0.375 Lbs/yr

VOC Emissions = 0.375 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.094 Lbs
Daily Ozone Season Usage = 0.001 Lbs/day

Ozone Season VOC Emissions = 0.094 Lbs
Daily Ozone Season VOC Emissions = 0.001 Lbs/day
Ozone Season Work Day Emissions = 0.001 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	Security	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: LSA
NSN: 9150-00-935-6597

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	15	cans/yr	at	2.000	wt.oz/can=	1.875	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.880

Notes:
VOC composition: 54.00 %(MSDS/Manuf.)
VOC Composition: 54.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 1.875 Lbs/yr

VOC Emissions = 1.013 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.469 Lbs
Daily Ozone Season Usage = 0.005 Lbs/day

Ozone Season VOC Emissions = 0.253 Lbs
Daily Ozone Season VOC Emissions = 0.003 Lbs/day
Ozone Season Work Day Emissions = 0.004 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 117

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	NAPA Battery Cleaner (765-1307)	8.86	85.00	43.83	0.02
N/A	NAPA CRC Electromotive Brake Cleaner	10.71	77.90	111.01	0.06

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 117

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	154.84	0.42	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 117

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
N/A	NAPA Battery Cleaner (765-1307)	8.86	4.02	35.58	0.02
N/A	NAPA CRC Electromotive Brake Cleaner	10.71	12.80	137.09	0.07

Miscellaneous Chemical HAP Emissions
for Building Number 117

NSN	Solvent	Use (gal/yr)	HAP Methylene Chloride (%)	HAP Tetrachloroethylene (%)	HAP Xylene (%)
N/A	NAPA Battery Cleaner (765-1307)	8.86	15.00		8.00
N/A	NAPA CRC Electromotive Brake Cleaner	10.71	18.30	77.90	

NSN	Solvent	Use (gal/yr)	HAP Isobutyl Acetate* (%)	HAP Acetone* (%)
N/A	NAPA Battery Cleaner (765-1307)	8.86	13.00	33.00

* New York State HAP

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 117

Permit #.....

POC.....Jack LaBour

Inventoried by.....T. Sletten

Phone.....(607) 869-1396

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....8

Days/week.....220 days/yr

Type of Activity: Equipment & Battery Shop

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name _____

NSN _____

MILSPEC _____

Annual Use _____

Annual Disposal _____

Product Name NAPA Battery Cleaner (765-1307)

NSN _____

MILSPEC _____

Annual Use 5 cases (13 3/4 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

MISCELLANEOUS CHEMICAL SOURCES (Continuation sheet) Page___ of ___

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01 Unit ID #.....

Location..... Bldg 117 Permit #.....

POC..... Jack LaBour Inventoried by..... T. Sletten

Phone..... (607) 869-1396 Inventory Date..... June 6-10, 1994

Product Name	NSN	MILSPEC	Annual Use/Units	Annual Disposal/Units
NAPA CRC Electramotive Brake Cleaner			10 cases (19 oz)	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.4207489810	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0774178125	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methylene Chloride	75-09-2	33.811875000
Xylene	1330-20-7	4.125000000
Isobutyl Acetate*	110-19-0	17.015625000
Acetone*	67-64-1	6.703125000
Tetrachloroethylene	127-18-4	111.007500000

STACK INFORMATION

Stack (release) Height	30	feet
Stack Diameter	18	inch
Stack Gas Velocity	26	ft/sec
Stack Gas Flow Rate	2,700	ascf/min
Stack Gas Temperature	70	oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	117 - Equipment & Battery Shop	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: NAPA Battery Cleaner
NSN: Part No. (765-1307)

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	60	cans/yr	at	13.750	wt.oz/can=	51.563	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.700

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 85.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 51.563 Lbs/yr

VOC Emissions = 43.828 Lb/yr 0.022 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 12.891 Lbs
Daily Ozone Season Usage = 0.140 Lbs/day

Ozone Season VOC Emissions = 10.957 Lbs
Daily Ozone Season VOC Emissions = 0.119 Lbs/day
Ozone Season Work Day Emissions = 0.167 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
Isobutyl Acetate*	110-19-0	13	6.703
Acetone*	67-64-1	33	17.016
		HAP Subtotal =	23.7 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2	15	7.734
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7	8	4.125

HAP Total =	**35.58**	**Lbs/yr**
HAP Content =	**4.02**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	117 - Equipment & Battery Shop	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC Lectra Motive
NSN: 8500-00-696-1426

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	120	cans/yr	at	19.000	wt.oz/can=	142.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.600

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 77.90 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 142.500 Lbs/yr

VOC Emissions = 111.008 Lb/yr 0.056 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 35.625 Lbs
Daily Ozone Season Usage = 0.387 Lbs/day

Ozone Season VOC Emissions = 27.752 Lbs
Daily Ozone Season VOC Emissions = 0.302 Lbs/day
Ozone Season Work Day Emissions = 0.422 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2	**18.3**	26.078
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4	**77.9**	111.008
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**137.09**	**Lbs/yr**
HAP Content =	**12.80**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 118

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
9150-00-529-7222	NAPA CRC 5-56 (765-1434)	3.48	42.00	11.34	0.01
N/A	NAPA Silicon Spray (765-6422)	0.94	59.00	3.54	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 118

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	14.88	0.04	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 118

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-529-7222	NAPA CRC 5-56 (765-1434)	3.48	2.25	7.83	<0.01
N/A	NAPA Silicon Spray (765-6422)	0.94	4.39	4.14	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 118

NSN	Solvent	Use (gal/yr)	HAP Hexane (%)	HAP Methyl Chloroform (%)
9150-00-529-7222	NAPA CRC 5-56 (765-1434)	3.48		29.00
N/A	NAPA Silicon Spray (765-6422)	0.94	31.00	38.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Unit ID #.....

Location..... Bldg 118

Permit #.....

POC..... Jack LaBour

Inventoried by..... T. Sletten

Phone..... (607) 869-1396

Operating Schedule

Inventory Date..... June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Equipment Shop

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name NAPA CRC 5-56 (765-1434)

NSN _____

MILSPEC _____

Annual Use 26 cns (12 oz)

Annual Disposal _____

Product Name NAPA Silicon Spray (765-6422)

NSN _____

MILSPEC _____

Annual Use 8 cns (12 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0404347826	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0074400000	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	10.1100000000
Hexane	110-54-3	1.8600000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	118 - Equipment Shop	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: NAPA CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	36	cans/yr	at	12.000	wt.oz/can=	27.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A A = % by weight
B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 27.000 Lbs/yr

VOC Emissions = 11.340 Lb/yr 0.006 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 6.750 Lbs
Daily Ozone Season Usage = 0.073 Lbs/day

Ozone Season VOC Emissions = 2.835 Lbs
Daily Ozone Season VOC Emissions = 0.031 Lbs/day
Ozone Season Work Day Emissions = 0.043 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	29	7.830
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**7.83**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	118 - Equipment Shop	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: NAPA Silicone Lubricant
NSN: Part No. (765--6522)

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	8	cans/yr	at	12.000	wt.oz/can=	6.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.765

Notes:
VOC composition: 97.00 %(MSDS/Manuf.)
VOC Composition: 59.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 6.000 Lbs/yr

VOC Emissions = 3.540 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.500 Lbs
Daily Ozone Season Usage = 0.016 Lbs/day

Ozone Season VOC Emissions = 0.885 Lbs
Daily Ozone Season VOC Emissions = 0.010 Lbs/day
Ozone Season Work Day Emissions = 0.013 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3	**31**	1.860
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**38**	2.280
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**4.14**	**Lbs/yr**
HAP Content =	**4.39**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 122 - Locksmith/Sheetmetal

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	Visi Dust II	1.13	32.00	2.88	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 122 - Locksmith/Sheetmetal

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	2.88	0.01	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 122 - Locksmith/Sheetmetal

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
	Visi Dust II	1.13	5.03	5.67	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 122 - Locksmith/Sheetmetal

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)
N/A	Visi Dust II	1.13	63.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Unit ID #.....

Location..... Bldg 122

Permit #.....

POC..... Fred Kaufman

Inventoried by..... T. Sletten

Phone..... (607) 869-1456

Operating Schedule

Inventory Date..... June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Locksmith/Sheetmetal

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name

NSN

MILSPEC

Annual Use

Annual Disposal

Product Name Visi Dust II

NSN

MILSPEC

Annual Use 12 cns (12 oz)

Annual Disposal

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber

Cyclone

Baghouse

Afterburner

Activated Charcoal Filter

Other

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0078260870 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0014400000 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	5.6700000000

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	122 - Locksmith/Sheetmetal	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Visi Dust II
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	12	cans/yr	at	12.000	wt.oz/can=	9.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.960

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 32.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 9.000 Lbs/yr

VOC Emissions = 2.880 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.250 Lbs
Daily Ozone Season Usage = 0.024 Lbs/day

Ozone Season VOC Emissions = 0.720 Lbs
Daily Ozone Season VOC Emissions = 0.008 Lbs/day
Ozone Season Work Day Emissions = 0.011 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**63**	5.670
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**5.67**	**Lbs/yr**
HAP Content =	**5.03**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 122 - Public Works Maintenance Repair Section

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	WD-40	5.07	78.00	26.33	0.01
9150-00-529-7222	CRC 5-56	3.48	42.00	11.34	0.01
8500-00-696-1426	CRC Lectra Motive	0.68	77.90	7.01	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 122 - Public Works Maintenance Repair Section

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	44.68	0.12	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 122 - Public Works Maintenance Repair Section

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	3.48	2.25	7.83	<0.01
8500-00-696-1426	CRC Lectra Motive	0.68	12.80	8.66	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 122 - Public Works Maintenance Repair Section

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)	HAP Methylene Chloride (%)	HAP Tetrachloroethylene (%)
9150-00-529-7222	CRC 5-56	3.48	29.00		
8500-00-696-1426	CRC Lectra Motive	0.68		18.30	77.90

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Unit ID #.....

Location..... Bldg 122

Permit #.....

POC..... Fred Kaufman

Inventoried by..... T. Sletten

Phone..... (607) 869-1456

Operating Schedule

Inventory Date..... June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Public works Maintenance Repair Section

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name WD-40

NSN _____

MILSPEC _____

Annual Use 3 cases (15 oz)

Annual Disposal _____

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 3 cases (12 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

MISCELLANEOUS CHEMICAL SOURCES (Continuation sheet) Page___ of ___

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01 Unit ID #.....

Location..... Bldg 122 Permit #.....

POC..... Fred Kaufman Inventoried by..... T. Sletten

Phone..... (607) 869-1456 Inventory Date..... June 6-10, 1994

Product Name	NSN	MILSPEC	Annual Use/Units	Annual Disposal/Units
Electromotive CRC			12 cns (12 oz)	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.1214021739	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0223380000	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	7.8300000000
Methylene Chloride	75-09-2	1.6470000000
Tetrachloroethylene	124-38-9	7.0110000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	122 - Public Works Maintenance Repair	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: WD-40
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	36	cans/yr	at	15.000	wt.oz/can=	33.750	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.800

Notes:
VOC composition: 78.00 %(MSDS/Manuf.)
VOC Composition: 78.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 33.750 Lbs/yr

VOC Emissions = 26.325 Lb/yr 0.013 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 8.438 Lbs
Daily Ozone Season Usage = 0.092 Lbs/day

Ozone Season VOC Emissions = 6.581 Lbs
Daily Ozone Season VOC Emissions = 0.072 Lbs/day
Ozone Season Work Day Emissions = 0.100 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	122 - Public Works Maintenance Repair	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	36	cans/yr	at	12.000	wt.oz/can=	27.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 27.000 Lbs/yr

VOC Emissions = 11.340 Lb/yr 0.006 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 6.750 Lbs
Daily Ozone Season Usage = 0.073 Lbs/day

Ozone Season VOC Emissions = 2.835 Lbs
Daily Ozone Season VOC Emissions = 0.031 Lbs/day
Ozone Season Work Day Emissions = 0.043 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	7.830
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**7.83**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	122 - Public Works Maintenance Repair	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC Lectra Motive
NSN: 8500-00-696-1426

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	12	cans/yr	at	12.000	wt.oz/can=	9.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 1.600

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 77.90 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 9.000 Lbs/yr

VOC Emissions = 7.011 Lb/yr 0.004 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.250 Lbs
Daily Ozone Season Usage = 0.024 Lbs/day

Ozone Season VOC Emissions = 1.753 Lbs
Daily Ozone Season VOC Emissions = 0.019 Lbs/day
Ozone Season Work Day Emissions = 0.027 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2	**18.3**	1.647
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4	**77.9**	7.011
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**8.66**	**Lbs/yr**
HAP Content =	**12.80**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 306 - Ammo Surveilance Workshop

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	Stencil Ink	0.69	94.00	4.23	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 306 - Ammo Surveilance Workshop

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	4.23	0.01	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 306 - Ammo Surveilance Workshop

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
	Stencil Ink	0.69	4.54	3.15	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 306 - Ammo Surveilance Workshop

NSN	Solvent	Use (gal/yr)	HAP Acetone* (%)	HAP Toluene (%)
N/A	Stencil Ink	0.69	40.00	30.00

* New York State HAP

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Unit ID #.....

Location..... Bldg 306

Permit #.....

POC..... Karen Mikkelborg

Inventoried by..... T. Sletten

Phone..... (607) 869-4135

Operating Schedule

Inventory Date..... June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Ammo Surveilance Workshop

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

Ink to change color/markings on boxes

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name Stencil Ink

NSN _____

MILSPEC _____

Annual Use 6 cns (12 oz)

Annual Disposal _____

Product Name _____

NSN _____

MILSPEC _____

Annual Use _____

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0114945652 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0021150000 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Acetone*	67-64-1	1.8000000000
Toluene	108-88-3	1.3500000000

* New York State HAP

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/30/94
Bldg #:	306 - Ammo Surveilance Workshop	**Initials:**	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Stencil Ink
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	6	cans/yr	at	12.000	wt.oz/can=	4.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.780

Notes:
VOC composition: 94.00 %(MSDS/Manuf.)
VOC Composition: 94.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 4.500 Lbs/yr

VOC Emissions = 4.230 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.125 Lbs
Daily Ozone Season Usage = 0.012 Lbs/day

Ozone Season VOC Emissions = 1.058 Lbs
Daily Ozone Season VOC Emissions = 0.011 Lbs/day
Ozone Season Work Day Emissions = 0.016 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	40	1.800
		HAP Subtotal =	1.8 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3	**30**	1.350
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**3.15**	**Lbs/yr**
HAP Content =	**4.54**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 317 - (COMIS)

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	1.16	42.00	3.78	<0.01
N/A	WD-40	1.35	78.00	7.02	<0.01
N/A	LPS-3 Rust Inhibitor	7.07	75.00	37.13	0.02
8030-00-526-1604	P-19 CPC	110.00	55.00	440.39	0.22
N/A	DX 330 Wax & Grease Remover	70.00	99.99	444.27	0.22

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 317 - (COMIS)

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	932.59	2.53	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 317 - (COMIS)

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	1.16	2.25	2.61	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 317 - (COMIS)

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)
9150-00-529-7222	CRC 5-56	3.48	29.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 317 (COMMIS)

Permit #.....

POC.....David Nichols

Inventoried by.....T. Sletten

Phone.....(607) 869-1525

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: _____

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

_____

_____

_____

_____

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 12 cns (12 oz)

Annual Disposal _____

Product Name WD-40

NSN _____

MILSPEC _____

Annual Use 12 cns (12 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

MISCELLANEOUS CHEMICAL SOURCES (Continuation sheet) Page___ of ___

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01 Unit ID #.....

Location.....Bldg 317 Permit #.....

POC.....David Nichols Inventoried by.....T. Sletten

Phone.....(607) 869-1525 Inventory Date.....June 6-10, 1994

Product Name	NSN	MILSPEC	Annual Use/Units	Annual Disposal/Units
LPS-3 Rust Inhibitor	Part No. 00316		6 cases (11 oz)	
P-19 CPC	8030-00-526-1604		110 gal	
DX 330 Was & Grease Remover			70 gal	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	2.5341995128	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.4662927104	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	2.6100000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	317 - (COMIS)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	12	cans/yr	at	12.000	wt.oz/can=	9.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:

VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 9.000 Lbs/yr

VOC Emissions = 3.780 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.250 Lbs
Daily Ozone Season Usage = 0.024 Lbs/day

Ozone Season VOC Emissions = 0.945 Lbs
Daily Ozone Season VOC Emissions = 0.010 Lbs/day
Ozone Season Work Day Emissions = 0.014 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	2.610
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**2.61**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	317 - (COMIS)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: WD-40
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	12	cans/yr	at	12.000	wt.oz/can=	9.000	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.800

Notes:

VOC composition: 78.00 %(MSDS/Manuf.)
VOC Composition: 78.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 9.000 Lbs/yr

VOC Emissions = 7.020 Lb/yr 0.004 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 2.250 Lbs
Daily Ozone Season Usage = 0.024 Lbs/day

Ozone Season VOC Emissions = 1.755 Lbs
Daily Ozone Season VOC Emissions = 0.019 Lbs/day
Ozone Season Work Day Emissions = 0.027 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	317 - (COMIS)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: LPS-3 Rust Inhibitor
NSN: Part No. 00316

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	72	cans/yr	at	11.000	wt.oz/can=	49.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.830

Notes:
VOC composition: 75.00 %(MSDS/Manuf.)
VOC Composition: 75.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 49.500 Lbs/yr

VOC Emissions = 37.125 Lb/yr 0.019 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 12.375 Lbs
Daily Ozone Season Usage = 0.135 Lbs/day

Ozone Season VOC Emissions = 9.281 Lbs
Daily Ozone Season VOC Emissions = 0.101 Lbs/day
Ozone Season Work Day Emissions = 0.141 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	317 - (COMIS)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: P-19 CPC
NSN: 8030-00-526-1604

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	110.000	gal/yr					

Specific Gravity: 0.875

Notes:

VOC composition: 55.00 %(MSDS/Manuf.)
VOC Composition: 55.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 800.704 Lbs/yr

VOC Emissions = 440.387 Lb/yr 0.220 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 200.176 Lbs
Daily Ozone Season Usage = 2.176 Lbs/day

Ozone Season VOC Emissions = 110.097 Lbs
Daily Ozone Season VOC Emissions = 1.197 Lbs/day
Ozone Season Work Day Emissions = 1.675 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	317 - (COMIS)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: DX 330 Wax & Grease Remover
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	70.000	gal/yr					

Specific Gravity: 0.763

Notes: Specific Gravity: (6.35 lb/gal)/(8.319 lb/gal) = 0.763

VOC composition: 99.99 %(MSDS/Manuf.)

VOC Composition: 99.99 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 444.318 Lbs/yr

VOC Emissions = 444.273 Lb/yr 0.222 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 111.079 Lbs
Daily Ozone Season Usage = 1.207 Lbs/day

Ozone Season VOC Emissions = 111.068 Lbs
Daily Ozone Season VOC Emissions = 1.207 Lbs/day
Ozone Season Work Day Emissions = 1.690 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 321 (TMDE)

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
6810-00-543-7415	Denatured Alcohol	4.00	100.00	31.03	0.02
9150-00-529-7222	CRC 5-56	0.60	42.00	1.97	<0.01
8010-00-F01-3448	Graffitti Remover	0.31	98.00	2.21	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 321 (TMDE)

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	35.20	0.10	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 321 (TMDE)

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
6810-00-543-7415	Denatured Alcohol	4.00	0.37	1.49	<0.01
9150-00-529-7222	CRC 5-56	0.60	2.25	1.36	<0.01
8010-00-F01-3448	Graffitti Remover	0.31	6.84	2.14	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 321 (TMDE)

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)	HAP Methyl Alcohol (%)	HAP Methyl Ethyl Ketone (%)
6810-00-543-7415	Denatured Alcohol	4.00		4.80	
9150-00-529-7222	CRC 5-56	0.60	29.00		
8010-00-F01-3448	Graffitti Remover	0.31			15.00

NSN	Solvent	Use (gal/yr)	HAP Acetone* (%)	HAP Glycol Ethers (%)	HAP Isopropyl Alcohol* (%)	HAP Toluene (%)
-00-F01-3448	Graffitti Remover	0.31	5.00	15.00	20.00	40.00

* New York State HAP

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 321 (TMDE)

Permit #.....

POC.....Clint Kunkle

Inventoried by.....T. Sletten

Phone.....(607) 869-1385

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: _____

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

_____

_____

_____

_____

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name Denatured Alcohol

NSN 6810-00-543-7415

MILSPEC _____

Annual Use 4 gal

Annual Disposal _____

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 6 cans (12.5 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

MISCELLANEOUS CHEMICAL SOURCES (Continuation sheet) Page___ of ___

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01 Unit ID #.....

Location..... Bldg 321 Permit #.....

POC..... Clint Kunkle Inventoried by..... T. Sletten

Phone..... (607) 869-1385 Inventory Date..... June 6-10, 1994

Product Name	NSN	MILSPEC	Annual Use/Units	Annual Disposal/Units
Graffiti Remover			3 cns (12 oz)	

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0956167989 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0175934910 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Alcohol	67-56-1	1.4886351360
Glycol Ethers	0	0.3375000000
Acetone*	67-64-1	0.1125000000
Toluene	108-88-3	0.9000000000
Isopropyl Alcohol*	67-63-0	0.4500000000
Methyl Ethyl Ketone	78-93-3	0.3375000000
Methyl Chloroform	71-55-6	1.3593750000
Glycol Ethers	0	0.3375000000

* New York State HAP

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	321 - (TMDE)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Denatured Alcohol
NSN: 6810-00-543-7415

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	4.000	gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 100.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 31.013 Lbs/yr

VOC Emissions = 31.013 Lb/yr 0.016 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 7.753 Lbs
Daily Ozone Season Usage = 0.084 Lbs/day

Ozone Season VOC Emissions = 7.753 Lbs
Daily Ozone Season VOC Emissions = 0.084 Lbs/day
Ozone Season Work Day Emissions = 0.118 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1	**4.8**	1.489
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**1.49**	**Lbs/yr**
HAP Content =	**0.37**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	321 - (TMDE)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	6	cans/yr	at	12.500	wt.oz/can=	4.688	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 4.688 Lbs/yr

VOC Emissions = 1.969 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.172 Lbs
Daily Ozone Season Usage = 0.013 Lbs/day

Ozone Season VOC Emissions = 0.492 Lbs
Daily Ozone Season VOC Emissions = 0.005 Lbs/day
Ozone Season Work Day Emissions = 0.007 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	1.359
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**1.36**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	321 - (TMDE)	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: Graffitti Remover
NSN: 8010-00-F01-3448

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	3	cans/yr	at	12.000	wt.oz/can=	2.250	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.865

Notes:
VOC composition: 98.00 %(MSDS/Manuf.)
VOC Composition: 98.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 2.250 Lbs/yr

VOC Emissions = 2.205 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.563 Lbs
Daily Ozone Season Usage = 0.006 Lbs/day

Ozone Season VOC Emissions = 0.551 Lbs
Daily Ozone Season VOC Emissions = 0.006 Lbs/day
Ozone Season Work Day Emissions = 0.008 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
Acetone*	67-64-1	5	0.113
Glycol Ethers	0	15	0.338
Isopropyl Alcohol*	67-63-0	20	0.450
		HAP Subtotal =	0.9 Lbs/yr

* New York State HAP

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3	**15**	0.338
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3	**40**	0.900
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**2.14**	**Lbs/yr**
HAP Content =	**6.84**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 323

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	1.13	78.00	5.85	<0.01
7510-01-280-9671	One-Shot Ink Cartridge	0.19	61.60	1.08	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 323

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	6.93	<0.01	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 323

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	1.13	2.25	0.44	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 323

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)
9150-00-529-7222	CRC 5-56	1.13	29.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 323

Permit #.....

POC.....Roy Wilde

Inventoried by.....T. Sletten

Phone.....(607) 869-1677

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: _____

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

_____

_____

_____

_____

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 2 cans (12 oz)

Annual Disposal _____

Product Name One Shot Ink Cartridge

NSN _____

MILSPEC _____

Annual Use 6 cans (125 ml)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0046565968	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0008568138	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	0.4350000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	323	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	2	cans/yr	at	12.000	wt.oz/can=	1.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 1.500 Lbs/yr

VOC Emissions = 0.630 Lb/yr 0.000 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.375 Lbs
Daily Ozone Season Usage = 0.004 Lbs/day

Ozone Season VOC Emissions = 0.158 Lbs
Daily Ozone Season VOC Emissions = 0.002 Lbs/day
Ozone Season Work Day Emissions = 0.002 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	29	0.435
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.44**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	323	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: One Shot Ink Cartridge
NSN: 7510-01-280-9671

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	0.194	gal/yr					

Specific Gravity: 1.090

Notes: Usage: (750 ml/yr)/(3875.412 ml/gal) = 0.194 Gal/yr
VOC composition: 93.70 %(MSDS/Manuf.)
VOC Composition: 61.60 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 1.759 Lbs/yr

VOC Emissions = 1.084 Lb/yr 0.001 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 0.440 Lbs
Daily Ozone Season Usage = 0.005 Lbs/day

Ozone Season VOC Emissions = 0.271 Lbs
Daily Ozone Season VOC Emissions = 0.003 Lbs/day
Ozone Season Work Day Emissions = 0.004 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	0.510
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.51**	**Lbs/yr**
HAP Content =	**2.63**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 357 - Mobile Heavy Equipment

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	PD-680 Type I	3.50	100.00	23.00	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 357 - Mobile Heavy Equipment

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	23.00	0.06	<0.01

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 4-01-888-01

Location..... Bldg 357

POC..... Tom Scoon

Phone..... (607) 869-1493

Inventory Date..... June 6-10, 1994

Unit ID #.....

Permit #.....

Inventoried by..... T. Sletten

Operating Schedule

Hours/day.....

Days/week.....

Type of Activity: Mobile Heavy Equipment

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name PD-680 Type I

NSN _____ MILSPEC _____

Annual Use 3.5 gal Annual Disposal _____

Product Name _____

NSN _____ MILSPEC _____

Annual Use _____ Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 0.0625055299 lb/day

NOx Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.0115010175 ton/yr

NOx Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO2 Emissions _____ ton/yr

PM10 Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR

STACK INFORMATION

Stack (release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/30/94
Bldg #:	357 - Mobile Heavy Equipment	**Initials:**	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: PD-680 Type I
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)		cans/yr	at		wt.oz/can=	0.000	lb/yr
OR	c)	3.500	gal/yr					

Specific Gravity: 0.790

Notes:
VOC composition: 100.00 %(MSDS/Manuf.)
VOC Composition: 100.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 23.002 Lbs/yr

VOC Emissions = 23.002 Lb/yr 0.012 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 5.751 Lbs
Daily Ozone Season Usage = 0.063 Lbs/day

Ozone Season VOC Emissions = 5.751 Lbs
Daily Ozone Season VOC Emissions = 0.063 Lbs/day
Ozone Season Work Day Emissions = 0.088 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Miscellaneous Chemical VOC Emissions
for Building Number 612 - Ammunition Maintenance

NSN	Solvent	Use gal/yr	VOC Content (%)	VOC Emissions (lb/yr)	VOC Emissions (ton/yr)
N/A	WD-40	1.13	78.00	5.85	<0.01
9150-00-529-7222	CRC 5-56	0.97	42.00	3.15	<0.01

Ozone Season Daily Miscellaneous Chemical Emissions
for Building Number 612 - Ammunition Maintenance

Pollutant	Emissions (lb)	Daily Emissions (lb)	Daily Emissions (tons)
VOC	9.00	0.02	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 612 - Ammunition Maintenance

NSN	Solvent	Use (gal/yr)	HAP Content (lbs/gal)	HAP Emissions (lb/yr)	HAP Emissions (ton/yr)
9150-00-529-7222	CRC 5-56	0.97	2.25	2.18	<0.01

Miscellaneous Chemical HAP Emissions
for Building Number 612 - Ammunition Maintenance

NSN	Solvent	Use (gal/yr)	HAP Methyl Chloroform (%)
9150-00-529-7222	CRC 5-56	3.48	29.00

MISCELLANEOUS CHEMICAL SOURCES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....4-01-888-01

Unit ID #.....

Location.....Bldg 612

Permit #.....

POC.....John Hennessy

Inventoried by.....T. Sletten

Phone.....(607) 869-1422

Operating Schedule

Inventory Date.....June 6-10, 1994

Hours/day.....

Days/week.....

Type of Activity: Ammunition Maintenance

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: _____ lbs _____ gal _____ other (specify)

SOURCE DESCRIPTION

Describe the source, how the chemical product is used, and the mechanism for generating air emissions.

CHEMICAL PRODUCT DATA

(Use extra sheets as necessary)

Product Name WD-40

NSN _____

MILSPEC _____

Annual Use 10 cans (12 oz)

Annual Disposal _____

Product Name CRC 5-56

NSN _____

MILSPEC _____

Annual Use 10 cans (12 oz)

Annual Disposal _____

POLLUTION CONTROL EQUIPMENT

(Enter control efficiency)

Wet Scrubber _____ Cyclone _____ Baghouse _____

Afterburner _____ Activated Charcoal Filter _____

Other _____

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance X

Similar Unit Data _____ Other MSDS

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions	0.0244565217	lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions	0.0045000000	ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions		ton/yr
Total Particulate		ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS CODE	LB/YR
Methyl Chloroform	71-55-6	2.1750000000

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

Stack Sampling Report Available? (Y/ N, results?) _____

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	**Date:**	8/30/94
Bldg #:	612 - Ammunition Maintenance	**Initials:**	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: WD-40
NSN:

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	10	cans/yr	at	12.000	wt.oz/can=	7.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.800

Notes:
VOC composition: 78.00 %(MSDS/Manuf.)
VOC Composition: 78.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 7.500 Lbs/yr

VOC Emissions = 5.850 Lb/yr 0.003 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.875 Lbs
Daily Ozone Season Usage = 0.020 Lbs/day

Ozone Season VOC Emissions = 1.463 Lbs
Daily Ozone Season VOC Emissions = 0.016 Lbs/day
Ozone Season Work Day Emissions = 0.022 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6		
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**0.00**	**Lbs/yr**
HAP Content =	**0.00**	**Lbs/Gal**

Emissions for Miscellaneous Chemicals and Solvents
Federal and New York State Regulations

Name:	Seneca Army Depot	Date:	8/30/94
Bldg #:	612 - Ammunition Maintenance	Initials:	GRM
SCC:	4-01-888-01		

Product/Material Information

Product: CRC 5-56
NSN: 9150-00-529-7222

Note: For annual usage, only fill the boxes for EITHER a, b, OR c and leave other boxes blank

Annual Usage:	a)		cans/yr	at		fl.oz/can=	0.000	gal/yr
OR	b)	10	cans/yr	at	12.000	wt.oz/can=	7.500	lb/yr
OR	c)		gal/yr					

Specific Gravity: 0.932

Notes:
VOC composition: 71.00 %(MSDS/Manuf.)
VOC Composition: 42.00 %(corrected for water and non-photochemical reactants)

expressed as : A — A = % by weight, B = % by volume

Notes:

Comment: "A" and "B" refer to the percentage of the material which contains VOCs. This is expressed as a percentage of total volume, (i.e. gallons) or of total weight (i.e. pounds). When available, percent by weight should take precedance. Make sure to subtract the percentage of hazardous VOCs which are not to be evaluated as a VOC (i.e., methylene chloride).

Emissions Summary

Annual VOC Emissions

Annual usage converted to weight = 7.500 Lbs/yr

VOC Emissions = 3.150 Lb/yr 0.002 Ton/yr

Ozone Season VOC Emissions

Ozone Season Usage = 1.875 Lbs
Daily Ozone Season Usage = 0.020 Lbs/day

Ozone Season VOC Emissions = 0.788 Lbs
Daily Ozone Season VOC Emissions = 0.009 Lbs/day
Ozone Season Work Day Emissions = 0.012 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	CAS No.	(% Composition)	Emissions (Lbs/yr)
		HAP Subtotal =	0.0 Lbs/yr

HAP Emissions

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
Benzene	71-43-2		
Carbon disulfide	75-15-0		
Carbon tetrachloride	56-23-5		
Chlorine	7782-50-5		
Chlorobenzene	108-90-7		
Chloroform	67-66-3		
Cumene	98-82-8		
1,4 Dioxane	123-91-1		
Epichlorohydrin	106-89-8		
Ethylbenzene	100-41-4		
Ethylene dibromide	106-93-4		
Ethylene dichloride	107-06-2		
Ethylene glycol	107-21-1		
Ethylene oxide	75-21-8		
Formaldehyde	50-00-0		
Hexane	110-54-3		
Hydrazine	302-01-2		
Hydrogen fluoride	7664-39-3		
Hydrogen sulfide	7783-06-4		
Hydroquinone	123-31-9		
m-xylene	108-38-3		
Methanol (methyl alcohol)	67-56-1		
Methyl chloride	74-87-3		
Methyl chloroform	71-55-6	**29**	2.175
Methyl ethyl ketone	78-93-3		
Methyl isobutyl ketone	108-10-1		
Methyl methacrylate	80-62-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
o-xylene	95-47-6		
p-xylene	106-42-3		
Phenol	108-95-2		
Phosgene	75-44-5		
Phosphine	7803-51-2		
Styrene	100-42-5		
Tetrachloroethylene	127-18-4		
Trichloroethylene	79-01-6		
Toluene	108-88-3		
Vinyl acetate	108-05-4		
Vinyl chloride	75-01-4		
Xylenes	1330-20-7		

HAP Total =	**2.18**	**Lbs/yr**
HAP Content =	**2.25**	**Lbs/Gal**

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000 Date Collected..... 1993

Location..... Bldg 606 Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Anticoagulant Density..... _____ lb/gal

Manufacturer..... _____ VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one) Dilution ratio..... none. (H_2O: product)

MONTHLY USAGE (lbs)

Usage	Month	Usage	Month	Usage	Month
36.5	January	1.0	May	0	September
10.0	February	0	June	3.0	October
0.8	March	0	July	2.0	November
1.0	April	19.0	August	8.0	December

Annual Usage: 81.3 lbs Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Arsenal

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.01 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January	900.0	May		September
	February	120.0	June		October
	March		July		November
	April		August		December

Annual Usage: 1020.0 gal

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Arsenal** **NSN:** **6840-01-356-8902**

Annual Usage: **1,020.00** **gal/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
900.00	0.01	0.09
Total adjusted monthly usage (gals)		0.09

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
120.00	0.01	0.01
Total adjusted monthly usage (gals)		0.01

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

October

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

November

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

December

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 0.10

Product Composition Data:

VOC composition: **1.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **1.090**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 0.92 Lbs/yr

Annual VOC Emissions = 0.01 Lbs/yr

Daily Ozone Season VOC Emissions = <0.1 Lbs/day
Ozone Season Work Day VOC Emissions = <0.1 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
Isopropylamine*	**5**	0.046
	HAP Subtotal =	<0.1 Lbs/yr

* New York State HAP

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	<0.1 Lbs/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Baygon

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January	105.0	May	615.00	September
	February	75.0	June		October
	March	300.0	July		November
12.0	April	860.0	August		December

Annual Usage: 1967.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day

= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: Baygon **NSN:** 6840-00-F00-4019

Annual Usage: 15.37 gal/yr **Monthly usage available?** a

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.09	100	0.09
Total adjusted monthly usage (gals)		0.09

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.82	100	0.82
Total adjusted monthly usage (gals)		0.82

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.59	100	0.59
Total adjusted monthly usage (gals)		0.59

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
2.34	100	2.34
Total adjusted monthly usage (gals)		2.34

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
6.72	100	6.72
Total adjusted monthly usage (gals)		6.72

Monthly Usage Cont. (gals)

September			October		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
4.80	100	4.80			
Total adjusted monthly usage (gals)		4.80	Total adjusted monthly usage (gals)		0.00

November			December		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00	Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 15.37

Product Composition Data:

VOC composition: **84.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.770**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 98.44 Lbs/yr

Annual VOC Emissions = 82.69 Lbs/yr

Daily Ozone Season VOC Emissions = 0.5643 Lbs/day
Ozone Season Work Day VOC Emissions = 0.790 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7	**0.20**	**0.197**
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2	**15.00**	**14.765**
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1	**0.50**	**0.492**
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	**15.5 Lbs/yr**

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Boric Acid (FLO)

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
11.0	February		June		October
	March	29.0	July		November
6.0	April		August		December

Annual Usage: 46.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Boric Acid** **NSN:** **6840-01-287-3938**

Annual Usage: **0.36** **gal/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.09	100	0.09
Total adjusted monthly usage (gals)		0.09

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.05	100	0.05
Total adjusted monthly usage (gals)		0.05

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.23	100	0.23
Total adjusted monthly usage (gals)		0.23

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September			October		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00	Total adjusted monthly usage (gals)		0.00

November			December		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00	Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 0.36

Product Composition Data:

VOC composition: **0.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.983**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 2.94 Lbs/yr

Annual VOC Emissions = 0.00 Lbs/yr

Daily Ozone Season VOC Emissions = 0.0000 Lbs/day
Ozone Season Work Day VOC Emissions = 0.000 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6	**49.00**	**1.440**
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	**1.4 Lbs/yr**

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000 Date Collected..... 1993

Location..... Bldg 606 Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Boric Acid (PDW) Density..... _____ lb/gal

Manufacturer..... _____ VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one) Dilution ratio..... none (H_2O: product)

MONTHLY USAGE (lbs)

Usage	Month	Usage	Month	Usage	Month
	January	1.7	May		September
	February	1.2	June		October
	March		July		November
	April	6.0	August		December

Annual Usage: 8.9 lbs. Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Boric Acid** **NSN:** **6840-01-287-3938**

Annual Usage: **8.90** **lb/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (lbs)

January

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00

February

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00

March

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00

April

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00

May

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
1.70	100	1.70
Total adjusted monthly usage (lbs)		1.70

June

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
1.20	100	1.20
Total adjusted monthly usage (lbs)		1.20

July

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00

August

Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
6.00	100	6.00
Total adjusted monthly usage (lbs)		6.00

Monthly Usage Cont. (lbs)

September			October		
Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)	Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00	Total adjusted monthly usage (lbs)		0.00

November			December		
Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)	Usage (lbs)	Dilution Ratio (%)	Adjusted Use (lbs)
Total adjusted monthly usage (lbs)		0.00	Total adjusted monthly usage (lbs)		0.00

Adjusted Total Annual Usage (lbs) 8.90

Product Composition Data:

VOC composition: **0.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.983**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 8.90 Lbs/yr

Annual VOC Emissions = 0.00 Lbs/yr

Daily Ozone Season VOC Emissions = 0.0000 Lbs/day
Ozone Season Work Day VOC Emissions = 0.000 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6	**49.00**	**4.361**
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	**4.4 Lbs/yr**

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....A2461800000 Date Collected.....1993

Location.....Bldg 606 Inventoried by.....T. Sletten

Phone.....(607) 869-4201 Dale Larson Inventory Date.....June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name.....Bromacil Density....._____ lb/gal

Manufacturer....._____ VOC content....._____ (units)

NSN or MSDS#....._____ (circle one) Dilution ratio.....1:0.01 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February	900.0	June		October
	March		July		November
	April		August		December

Annual Usage: 900 gal Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Diazinon (emulsion)

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.5 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May	32	September
	February		June	64	October
	March		July	16	November
	April		August		December

Annual Usage: 112 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day

= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Diazinon (emulsion)** **NSN:** **6840-00-844-7355**

Annual Usage: **0.88** **gal/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.25	0.5	0.00
Total adjusted monthly usage (gals)		0.00

October

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.50	0.5	0.00
Total adjusted monthly usage (gals)		0.00

November

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.13	0.5	0.00
Total adjusted monthly usage (gals)		0.00

December

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 0.00

Product Composition Data:

VOC composition: **99.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.780**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 0.03 Lbs/yr

Annual VOC Emissions = 0.03 Lbs/yr

Daily Ozone Season VOC Emissions = 0.0000 Lbs/day
Ozone Season Work Day VOC Emissions = 0.000 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	0.0 Lbs/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Diazinon (solution)

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.5 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January	2.5	May		September
	February	320	June		October
	March		July		November
	April		August		December

Annual Usage: 322.5 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Diazinon (solution)** **NSN:** **6840-00-844-7355**

Annual Usage: **2.52** **gal/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.02	0.5	0.00
Total adjusted monthly usage (gals)		0.00

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
2.50	0.5	0.01
Total adjusted monthly usage (gals)		0.01

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

October

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

November

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

December

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 0.01

Product Composition Data:

VOC composition: **99.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.780**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 0.08 Lbs/yr

Annual VOC Emissions = 0.08 Lbs/yr

Daily Ozone Season VOC Emissions = <0.1 Lbs/day
Ozone Season Work Day VOC Emissions = <0.1 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		

HAP Total = 0.0 Lbs/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Ficam

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February		June	160.0	October
	March		July		November
	April		August		December

Annual Usage: 160.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Ficam

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May	16.0	September
	February		June		October
	March		July		November
	April	64.0	August		December

Annual Usage: 80.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day

= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Glyphosate

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.02 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February		June		October
	March	450.0	July		November
	April		August		December

Annual Usage: 450 gal.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Imazapyr

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.01 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May	300.0	September
	February		June		October
	March		July		November
	April		August		December

Annual Usage: 300.0 gal

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: Imazapyr **NSN:** 6840-01-356-8902

Annual Usage: 300.00 gal/yr **Monthly usage available?** a

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
300.00	0.01	0.03

Total adjusted monthly usage (gals) 0.03

October

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)

Total adjusted monthly usage (gals) 0.00

November

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)

Total adjusted monthly usage (gals) 0.00

December

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)

Total adjusted monthly usage (gals) 0.00

Adjusted Total Annual Usage (gals) 0.03

Product Composition Data:

VOC composition: **1.00** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **1.090**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 0.27 Lbs/yr

Annual VOC Emissions = 0.00 Lbs/yr

Daily Ozone Season VOC Emissions = 0.0000 Lbs/day
Ozone Season Work Day VOC Emissions = 0.000 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
Isopropylamine	**5**	0.014
	HAP Subtotal =	<0.1 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		

HAP Total = <0.1 Lbs/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Maxforce

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... N/A (H_2O: product)

MONTHLY USAGE (lbs)

Usage	Month	Usage	Month	Usage	Month
	January	24.0	May		September
	February		June		October
	March		July		November
	April		August		December

Annual Usage: 24.0 lbs

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Pyrethrum

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February	25.0	June		October
3.0	March	2.0	July		November
	April	27.0	August		December

Annual Usage: 57.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000 Date Collected..... 1993

Location..... Bldg 606 Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Pyrethrum Density..... _____ lb/gal

Manufacturer..... _____ VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one) Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January	48.0	May		September
	February		June		October
	March		July		November
	April		August		December

Annual Usage: 48.0 fl. oz. Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000 Date Collected..... 1993

Location..... Bldg 606 Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Pyrethrum Density..... _____ lb/gal

Manufacturer..... _____ VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one) Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February		June		October
	March		July		November
10.0	April		August	2.0	December

Annual Usage: 12.0 fl. oz. Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Pyrethrum

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... none (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
0.5	January		May		September
	February		June		October
	March		July		November
	April		August		December

Annual Usage: 0.5 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: Pyrethrum **NSN:** 6840-00-823-7849

Annual Usage: 0.92 gal/yr **Monthly usage available?** a

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.00	100	0.00
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.02	100	0.02
Total adjusted monthly usage (gals)		0.02

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.08	100	0.08
Total adjusted monthly usage (gals)		0.08

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.38	100	0.38
Total adjusted monthly usage (gals)		0.38

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.20	100	0.20
Total adjusted monthly usage (gals)		0.20

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.02	100	0.02
Total adjusted monthly usage (gals)		0.02

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.21	100	0.21
Total adjusted monthly usage (gals)		0.21

Monthly Usage Cont. (gals)

September

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

October

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

November

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

December

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.02	100	0.02
Total adjusted monthly usage (gals)		0.02

Adjusted Total Annual Usage (gals) 0.92

Product Composition Data:

VOC composition: **29.50** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.910**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 6.95 Lbs/yr

Annual VOC Emissions = 2.05 Lbs/yr

Daily Ozone Season VOC Emissions = <0.1 Lbs/day
Ozone Season Work Day VOC Emissions = <0.1 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
Pyrethrum*	**0.5**	0.035
	HAP Subtotal =	0.0 Lbs/yr

* New York State HAP

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6	**60.00**	**4.170**
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	**4.2 Lbs/yr**

PESTICIDES/HERBICIDES

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... A2461800000

Date Collected..... 1993

Location..... Bldg 606

Inventoried by..... T. Sletten

Phone..... (607) 869-4201 Dale Larson

Inventory Date..... June 6-10, 1994

PESTICIDES/HERBICIDES INFORMATION

Name..... Resmethrin

Density..... _____ lb/gal

Manufacturer..... _____

VOC content..... _____ (units)

NSN or MSDS#..... _____ (circle one)

Dilution ratio..... 1:0.03 (H_2O: product)

MONTHLY USAGE

Usage	Month	Usage	Month	Usage	Month
	January		May		September
	February		June		October
	March		July		November
	April	5.0	August		December

Annual Usage: 5.0 fl. oz.

Annual Disposal: _____

Check here if DD Form 1532 is available:...____ (attach a copy of DD Form 1532 for each month within the calendar year you are inventorying)

EMISSIONS ESTIMATES

VOC EMISSIONS = [VOC (lb/gal)] x [Annual use (gal/yr)]

= _____ lb/day
= _____ tons/year

HAZARDOUS AIR POLLUTANTS

HAP (Specify)	CAS CODE	lb/yr

Emissions For Pesticide/Herbicide Applications
Federal and New York State Regulations

Facility: Seneca Army Depot
Location:
SCC: A2461800000

Date: 8/23/94
Initials: CM

Product Information:
Pesticide/Herbicide Name: **Resmethrin** **NSN:** **6840-01-104-0780**

Annual Usage: **0.04** **gal/yr** **Monthly usage available?** **a**

A - yes (enter usage in spaces below)
B - no (leave spaces below blank)

Monthly Usage (gal)

January

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

February

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

March

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

April

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

May

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

June

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

July

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00

August

Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
0.04	0.03	0.00
Total adjusted monthly usage (gals)		0.00

Monthly Usage Cont. (gals)

September			October		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00	Total adjusted monthly usage (gals)		0.00

November			December		
Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)	Usage (gals)	Dilution Ratio (%)	Adjusted Use (gals)
Total adjusted monthly usage (gals)		0.00	Total adjusted monthly usage (gals)		0.00

Adjusted Total Annual Usage (gals) 0.00

Product Composition Data:

VOC composition: **96.51** % expressed as: **a** A - % by weight
B - % by volume

Specific Gravity: **0.878**

Dilution ratio: % (Use ONLY if monthly data is NOT available)

Ozone Season VOC Calculations : **b** A - based on annual usage/emissions
B - based on monthly usage/emissions

Comment: Ozone season VOC emissions can be based on actual monthly VOC emissions or annual emissions. If monthly usages are available, it is more accurate to estimate ozone season VOC emissions based on the three months of the peak ozone season (June-August).

Emissions Summary

VOC Emissions

Annual usage converted to weight = 0.00 Lbs/yr

Annual VOC Emissions = 0.00 Lbs/yr

Daily Ozone Season VOC Emissions = <0.1 Lbs/day
Ozone Season Work Day VOC Emissions = <0.1 Lbs/wrk day

HAP Emissions: To determine HAP emissions, enter the composition of each HAP in one of two areas. First, enter the compositions for HAPs which are presented on the following page. If a particular HAP is not listed on that page, then enter the name and composition in the spaces provided below. HAP totals will be presented at the bottom of the following page.

Additional HAPs	(% Composition)	Emissions (Lbs/yr)
	HAP Subtotal =	0.0 Lbs/yr

HAP Emissions Cont.

HAP Name	CAS #	(% Composition)	Emissions (Lbs/yr)
2,4-D salts and esters	94-75-7		
Carbaryl	63-25-2		
Cumene	98-82-8		
Dichlorvos	62-73-7		
Ethylbenzene	100-41-4		
Ethylene glycol	107-21-1		
Methanol	67-56-1		
Methyl chloroform	71-55-6		
Methylene chloride	75-09-2		
Naphthalene	91-20-3		
Propoxur (Baygon)	114-26-1		
Tetrachloroethylene	127-18-4		
Toluene	108-88-3		
Triethylamine	121-44-8		
Trifluralin	1582-09-8		
Xylenes	1330-20-7		
		HAP Total =	0.0 Lbs/yr

OUTDOOR FIRING RANGE

Installation Seneca Army Depot Page ___ of___

Location: Security Unit ID #: _____

POC: William Plate Phone: (607) 869-1228

Inventoried By: T. Sletten Inventory Date: June 6-10, 1994

OPERATING SCHEDULE[a]

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

DESCRIPTION OF ACTIVITY

Weapons Training and Cleaning

MUNITIONS

DODIC	DESCRIPTION	
	.38 cal	2500 Rds
	5.56 mm	2000 Rds
	.45 cal	400 Rds
	Shot Gun	400 Rds

AMOUNT OF MUNITIONS USED[b]

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

ENTS:

schedule reported as percent of yearly activity conducted each month.
mounts are recorded in rounds unless otherwise indicated.

WASTEWATER TREATMENT UNITS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 5-01-007-01

Unit ID #..... SEAD - 20

Location..... Bldg 4

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

UNIT DESCRIPTION

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Aerated.....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate...	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest..	
Conc Before Treatment..	

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Mechanical Aeration....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate....	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest.....	
Conc Before Treatment..	

INDUSTRIAL PROCESSES

Identify the industrial process(es) discharging to the treatment facility:

INDUSTRIAL SOURCE DESCRIPTION	BUILDING/SOURCE	POLLUTANTS
See comments		

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

WASTEWATER TREATMENT UNITS (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions_____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr

(use additional sheets if necessary)

COMMENTS

This treatment plant has been operated since 1942 and is still in use. The system was designed to handle 250,000 gallons per day. Its load is 100% domestic sewage. The system uses no chemicals.

System Characteristics

(1) Bar Screen and Wet Well
(2) 30′ Trickling Filters with plastic media
(3) Dual chambered 1m-hoff settling tank
(4) Clarifier and two sludge drying beds - 35′ x 35′
(5) Wetlands

WASTEWATER TREATMENT UNITS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....5-01-007-01

Unit ID #.....SEAD - 21

Location.....Bldg 715

Permit #.....

POC.....George Shadman

Inventoried by.....T. Sletten

Phone.....(607) 869-1470

Inventory Date.....June 6-10, 1994

UNIT DESCRIPTION

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Aerated.....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate...	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest..	
Conc Before Treatment..	

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Mechanical Aeration....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate....	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest.....	
Conc Before Treatment..	

INDUSTRIAL PROCESSES

Identify the industrial process(es) discharging to the treatment facility:

INDUSTRIAL SOURCE DESCRIPTION	BUILDING/SOURCE	POLLUTANTS
See comments		

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

WASTEWATER TREATMENT UNITS (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: _____

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions_____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr

(use additional sheets if necessary)

COMMENTS

This treatment plant was operated from 1956 to December 1993. The system was designed to handle 750,000 gallons per day, but was operated, on the average, 300,000 gallons per day in 1993. No chemicals are used within the system.

<u>System Characteristics</u>

(1) Grinder pump and comminutor
(2) Primary setting chamber
(3) Rotating Biological Contactor's (RBC's) - 2
(4) Secondary clarifier and sand filters
(5) Sludge holding tank and sludge digestion tank (old 1mhoff tank)
(6) Concrete lined sludge drying beds with gravel and sand floors (40 ft x 15 ft) each - 2

POTABLEWATER TREATMENT UNITS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Unit ID #.....

Location..... Bldg 2411

Permit #.....

POC..... George Shadman

Inventoried by..... T. Sletten

Phone..... (607) 869-1470

Inventory Date..... June 6-10, 1994

UNIT DESCRIPTION

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Aerated.....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate...	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest..	
Conc Before Treatment..	

Treatment Unit...#____of_____
- Junction Box.....
- Lift Station.....
- Sump.....
- Weir.....
- Other.....

Configuration
- Flowthrough.....
- Disposal.....

- Mechanical Aeration....
- Diffused Air.....
- Biodegradation.....
- Oil Film Layer.....

Design Parameters	Units
Volume Flow Rate....	
Surface Area.....	
Liquid Depth.....	
Fetch Length.....	
Retention Time (turnover/yr)....	
Pollutant of Interest.....	
Conc Before Treatment..	

INDUSTRIAL PROCESSES

Identify the industrial process(es) discharging to the treatment facility:

INDUSTRIAL SOURCE DESCRIPTION	BUILDING/SOURCE	POLLUTANTS
See comments		

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

WASTEWATER TREATMENT UNITS (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor _____ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: Reynolds, Tom D., Unit Operations And Process in Environmental Engineering, CA, 1982

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr
Chlorine	7782-50-5	121.764000

(use additional sheets if necessary)

COMMENTS

This treatment plant was designed to handle 800,000 gallons per day but operated on the average 200,000 gallons per day. The water is drawn from the lake and is first sent to a chlorine well. It is then gravity fed to a second fluoridated well. From here it goes to the residential area.

Chemicals Utilized in Process

- Chlorine - 1,200 lb/yr
- Fluoride liquid - unknown amount

Emissions For Water Treatment Plants
Federal and New York State Regulations

Facility: Seneca Army Depot
Location: Building 2411
SCC: 5-01-007-01

Date: 8/29/94
Initials: mole

Notes: The only emissions from water treatment operations occur when chlorine is used in the treatment process for disinfection. The only input parameters required are the annual flow (10E6 gal/yr) and the chlorine residual (ppm) in the end-of-the-line water.

Inputs: Annual water flow: 73.00 (10E6 gal/yr)

Chlorine residual: 0.20 (ppm)

(Notes: Chlorine residuals should be available from the plant operator as a single value or a range of values. If a range of values is given, then use the highest value. If chlorination is utilized, but a chlorine residual is not available, then use 0.2 ppm (AEC Recommended), which is a typical maximum end-of-the line water)

Solution:

HAP Emissions

HAP Name	CAS #	Emissions (lbs/yr)
Chlorine	**7782-50-5**	**121.8**

References: Reynolds, Tom D., Unit Operations and Process in Environmental Engineering, PWS-KENT Publishing Company, CA, 1982.

LANDFILLS

GENERAL INFORMATION

Name of Installation Seneca Army Depot GEOMET Rep..... M. Onesty/T. Sletten

Calendar Year Data Represents.....

SCC..... 5-02-006-02 Building No..... Various locations

Date..... 6/8/94 Unit ID Number.....

POC..... Randall Battaglia Phone No..... (607) 869-1450

UNIT INFORMATION

*Year Opened. Multiple areas 1940's-1987 Original Depth.... (units)

Surface Area... (units)

*Original Capacity... See attached list (units) Remaining Capacity.... (units)

WASTE INFORMATION

Amount of waste disposed per year by Type (e.g., Municipal, Industrial, Hazardous, Construction debris)

**Year	Amount Disposed (Units)	Waste Type (%)
(1st year of operation)		
Unknown	Unknown	Unknown
See attached list		

Typical weight of Waste disposed _____ lb./yd^3

LANDFILL GAS INFORMATION

NMOC.... _____ ppmv Methane.... _____ (volume %)

CO_2.... _____ (volume %)

*Required model input

**Model requires amount disposed per year or cumulative amount disposed to date and year opened.

FILL.XLS

Senca Army Depot Landfill/ Debri Disposal Areas

Unit No.	Disposal Area Name	Disposal Area Size	Dates Used	Debris Description *
SEAD- 6	Ash Fill Area	600 x 300 ft	1941-early 60s 1974-1979	Ash from refuse burn pits and solid waste incinerator
SEAD-7	Shale Pit	2 acres	1987 to present	Construction debris
SEAD-8	Non-Combustible Fill Area	350 x 350 ft	1974-1979	Bulky non-combustible waste and some constructoin debris
SEAD-11	Old Construction Debris Landfill	590 x 590 ft	1946-1949	Construction debris
SEAD-12	Radioactive Waste Burial Sites	5 pits Unknown size	Pre - 1962	Radioactive and nonradioactive wastes from the clinic and classified metal parts
SEAD-13	IRFNA Disposal Site	6 Pits, 30 x 8 x 4 ft deep	Early 1960's	IRFNA- an oxidizer used in missile liquid propellant systems
SEAD-59	Fill Area West of Bldg. 135	150 ft dia. x 10 ft deep	Unknown	Construction Debris
SEAD-63	Misc. Components Burial Site	80 x 60 ft	1950's to 1960's	Inert material (classified parts)
SEAD-64	Garbage Disposal Areas	4 Areas unknown size	Unknown	Exact makeup of debris unknown Possible house hold garbage, mettalic waste, (areas possibly used during periods when the soild waste incinerator was inoperable)

FILL.XLS

Unit No.	Disposal Area Name	Disposal Area Size	Dates Used	Debris Description*
SEAD-67	Dump Site (east of Sewage Treatment Plant No. 4)	Waste Piles Unknown size	Unknown	Unknown
SEAD-69	Disposal Area (Bldg. 606)	Waste Piles	Unknown	Fence wire, concrrete post and possibly 2,4-D cans and pesticide cans

* Amount of waste disposed is unknown

OPEN BURNING / OPEN DETONATION

Installation Seneca Army Depot Page ___ of___

Location: 1 Burn Pit, Demolition Pit Unit ID #: _____

POC: Jim Jones Phone: (607) 869-

Inventoried By: T. Sletten Inventory Date: June 6-10, 1994

Activity: OB ✓ OD ✓ Permit# _____

Permit Restrictions: _____

OPERATING SCHEDULE[a]

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

DESCRIPTION OF ACTIVITY

Open burning and detonation of munitions, activity located just west of north Ammo area.

MUNITIONS

DODIC	DESCRIPTION
See attached list	See attached list

OPEN BURNING/DETONATION SENECA ARMY DEPOT

Month	Lot No.	NSN	DODIC	Quantity	Units
DECEMBER	COP-4-817	1340000286090		10,655	
1992	LOP89H016-004	1375007247040	M023	90	
	ENB-1-4	1375001436995		300	ft
	HEP-64-1	1375007561865	M130	6	
	ENS90E002-010	1375000285246		100	ft
	SGK86D001-002	1375006911671	M766	6	
	RAD-68069	1315003517914		6	
JANUARY	COP-4-817	1340000286090		405	
1993	LOP89H016-004	1375007247040	M023	108	
	ENB-1-4	1375001436995		450	ft
	HEP-64-1	1375007561865	M130	9	
FEBRUARY	COP-4-817	1340000286090		2,294	
1993	LOP89H016-004	1375007247040	M023	271	
	ENB-1-4	1375001436995		2,260	ft
	HEP-64-1	1375007561865	M130	4	
APRIL	COP-4-817	1340000286090		490	
1993	LOP89H016-004	1375007247040	M023	117	
	ENB-1-4	1375001436995		184	ft
	HEP-64-1	1375007561865	M130	2	
MAY	COP-4-817	1340000286090		2,945	
1993	LOP89H016-004	1375007247040	M023	600	
	ENB-1-4	1375001436995		1,300	ft
	HEP-64-1	1375007561865	M130	4	
	IRI87A001-025	1375011929174		12	
JUNE	COP-4-817	1340000286090		5,750	
1993	LOP89H016-004	1375007247040	M023	1,110	
	ENB-1-4	1375001436995		7,434	ft
	IRI87A001-025	1375011929174		35	
JULY	COP-4-817	1340000286090		5,090	
1993	LOP89H016-004	1375007247040	M023	915	
	ENB-1-4	1375001436995		5,393	ft
	IRI87A001-025	1375011929174		61	
AUGUST	COP-4-817	1340000286090		679	
1993	COP-4-793	1340000286090		5578	
	LOP89H016-004	1375007247040	M023	1,095	
	ENB-1-4	1375001436995		7,449	ft
	IRI87A001-025	1375011929174		83	

OPEN BURNING/DETONATION SENECA ARMY DEPOT

SEPTEMBER	COP-4-793	1340000286090		4,034	
1993	LOP89H016-004	1375007247040	M023	750	
	ENB-1-4	1375001436995		4,338	ft
	IRI87A001-025	1375011929174		50	
	ENB87K015-010	1375001809356		3,400	ft
MARCH	PA-76H001-002	1320006287741	D674	759	
1994	ENS90E002-010	1375000285246		130	ft
	SGK80D011-002	1375006911671	M766	21	
APRIL	PA76G001-001	1320006287741	D674	371	
1994	PA76H001-002	1320006287741	D674	141,859	
	ENS90E002-010	1375000285246		195	ft
	SGK80D011-002	1375006911671	M766	31	
MAY	PA-76H001-002	1320006287741	D674	1,712	
1994	ENS90E002-010	1375000285246		140	ft
	SGK80D011-002	1375006911671	M766	34	
JUNE	PA-66-21	1320001794164		13	
1994		1135008560392		13	
	LOP89H016-004	1375007247040	M023	13	
		1375001809356	M456	120	ft
	IRI91A006-004			1	
	PA-76H001-002	1320006287741	D674	432	
	ENS90E002-010	1375000285246		30	ft
	SGK86D001-002	1375006911671	M766	8	

FIRE FIGHTING TRAINING

Installation Seneca Army Depot Page ___ of___

Location: Fire Fighting Unit ID #: _____

POC: Chief Symonds Phone: (607) 869-4136

Inventoried By: T. Sletten Inventory Date: June 6-10, 1994

Activity: OB _____ OD _____ SSC # 5-01-006-04

Permit Restrictions: _____

OPERATING SCHEDULE[a]

JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

DESCRIPTION OF ACTIVITY

Fire Fighting Training: Burn wood pallets 50' Dia x 15' High completely to the ground. The pallets are made of both 2 x 4's and 2 x 6's. They had 5 burns in 1993, but discontinued the practice in 1994. The use of a fire training pit to burn oil was discontinued in 1992.

MUNITIONS

DODIC	DESCRIPTION
	See table

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: AP-42, Tables 1.10-1, 1.10-3, 1.10-4

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions 372.3 lb/day*

NO_x Emissions 23.5 lb/day*

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions 0.47 ton/yr

NO_x Emissions 0.03 ton/yr

CO Emissions 2.45 ton/yr

SO2 Emissions <0.01 ton/yr

PM_{10} Emissions 0.33 ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr
Benzene	71-43-2	41.2
Toluene	108-88-3	15.5
Methyl ethyl ketone	78-93-3	6.2
O-Xylene	95-47-6	4.3
Napthalene	98-01-1	6.1
Furfural*	91-20-3	10.3

(use additional sheets if necessary)

*New York State HAP

STACK INFORMATION

Stack (Release) Height _____ feet

Stack Diameter _____ inch

Stack Gas Velocity _____ ft/sec

Stack Gas Flow Rate _____ ascf/min

Stack Gas Temperature _____ °F

Other sources that share this stack ? _____

FLOW DIAGRAM & DISCUSSION OF ASSUMPTIONS OR UNUSUAL CONDITIONS

* Ozone season emissions were the results of emissions on two separate days only.

INCINERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... 5-01-001-01

Unit ID #.....

Location..... Bldg 709

Permit #..... 0709B

POC..... Tom Grasek

Inventoried by..... T. Sletten

Phone..... (607) 869-1450

Inventory Date..... June 6-10, 1994

Manufacturer..... Consumat Systems Inc.

Fuel Type..... Propane

Date Installed.....

Annual Fuel Use..... 173.0 cf/yr (units)

Rated Capacity..... (units)

Operating Schedule*
Hours/day..... 2
Days/week..... 250 days/ yr (1/93-5/93)

Annual Thruput..... (units)

Type of Incinerator (check one):
Municipal _____ Medical _____ Classified ✓ Hazardous _____

WASTE CHARACTERIZATION

Relative Percent by Waste Type:

Type 0 (dry trash)	%
Type 1 (rubbish)	%
Type 2 (refuse)	%
Type 3 (garbage)	%
Type 4 (animal/human wastes)	%
Type 5 (gas, liquid, semi-liquid)	%
Type 6 (semi-solid)	%
Other Plastic bags & paper	%
TOTAL-->	100 %

WASTE THROUGHPUT

MONTH	AMOUNT	MONTH	AMOUNT

Units?: _____

ANNUAL TOTAL--> _____

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: gal _____ cubic feet _____ lb _____ other _____

COMBUSTION CHAMBER DATA

No. of Chambers.... 2

Primary Chamber Type
Excess Air.....
Starved Air.....
Underfire Air....
Overfire Air.....

Chamber Temperature
Primary.....

Secondary..

CHARGING DATA

Manual.....
Ram.....
Conveyor....

Charging Rate....

100 lb/hr

Size of Charge...

(mass or volume)

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet/Dry Scrubber..

Scrubber Liquid.....

Cyclone.....

Spray Dryer.....

Other..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

INCINERATORS (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor ___X___ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: AP-42

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr

(use additional sheets if necessary)

STACK INFORMATION

Stack (Release) Height 17 (feet)

Stack Diameter 13 (inch)

Stack Gas Velocity 23.0 (ft/sec)

Stack Gas Flow Rate 1286.0 (ascf/min)

Stack Gas Temperature 1000 (°F)

Other sources that share this stack ? _____

COMMENTS

*Not used since 5/93, Incinerator listed as inactive, cannot be operated without prior notification to D.E.C. (New York State Department of Environmental Conservation).

INCINERATORS

GENERAL INFORMATION

Installation Seneca Army Depot

SCC.....5-01-001-01

Unit ID #.....

Location.....Bldg 801

Permit #.....0801B

POC.....Tom Grasek

Inventoried by.....T. Sletten

Phone.....(607) 869-1450

Inventory Date.....June 6-10, 1994

Manufacturer.....Consumat Systems Inc.

Fuel Type.....Propane

Date Installed.....

Annual Fuel Use.....173.000 cf/yr (units)

Rated Capacity.....75,000 Btu/hr (units)

Operating Schedule*
Hours/day.....3
Days/week.....83 days, 1/93 - 10/93

Annual Thruput.....(units)

Type of Incinerator (check one):
Municipal _____ Medical _____ Classified ✓ Hazardous _____

WASTE CHARACTERIZATION

Relative Percent by Waste Type:

Type 0 (dry trash)	%
Type 1 (rubbish)	%
Type 2 (refuse)	%
Type 3 (garbage)	%
Type 4 (animal/human wastes)	%
Type 5 (gas, liquid, semi-liquid)	%
Type 6 (semi-solid)	%
Other Plastic bags & paper	%
TOTAL-->	100 %

WASTE THROUGHPUT

MONTH	AMOUNT	MONTH	AMOUNT

Units?:_____

ANNUAL TOTAL--> _____

MONTHLY FUEL USE

19__	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC

Units: gal _____ cubic feet _____ lb _____ other _____

COMBUSTION CHAMBER DATA

No. of Chambers....2

Primary Chamber Type
Excess Air.....
Starved Air.....
Underfire Air....
Overfire Air.....

Chamber Temperature
Primary.....
Secondary..

CHARGING DATA

Manual.....
Ram.....
Conveyor....

Charging Rate....

100 lb/hr

Size of Charge...

(mass or volume)

POLLUTION CONTROL EQUIPMENT

(enter control efficiency)

ESP.....

Baghouse.....

Wet/Dry Scrubber..

Scrubber Liquid.....

Cyclone.....

Spray Dryer.....

Other..

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

INCINERATORS (Continued) Page___ of ___

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor ___X___ Material Balance _____

Similar Unit Data _____ Other _____ (specify)

Reference: AP-42

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions _____ lb/day

NO_x Emissions _____ lb/day

CO Emissions _____ lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions _____ ton/yr

NO_x Emissions _____ ton/yr

CO Emissions _____ ton/yr

SO_2 Emissions _____ ton/yr

PM_{10} Emissions _____ ton/yr

Total Particulate _____ ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS Code	lb/yr

(use additional sheets if necessary)

STACK INFORMATION

Stack (Release) Height 17 (feet)

Stack Diameter 13 (inch)

Stack Gas Velocity 23.0 (ft/sec)

Stack Gas Flow Rate 1286.0 (ascf/min)

Stack Gas Temperature 1000 (°F)

Other sources that share this stack ? No

COMMENTS

*Not use since 10/93, Propane tank removed 12/93, operating schedule based on permit data

APPLICATION OF CUTBACK ASPHALT

GENERAL INFORMATION

Installation Seneca Army Depot

SCC..... N/A

Location..... _____ Unit ID #..... _____

POC..... James Brewer Permit #..... _____

Phone..... (607) 869-1532 Inventory Date..... June 6-10, 1994

List the type, grade and volume of cutback asphalt used annually.

Type[a]	Grade[b]	Volume (gal)
AC-20 Type 3 Binder Dense	1,526,934 cu yd	
AC-20 Type 7 Top Course	715,556 cu yd	
Hot Patch	20 ton/yr max	

[a] Slow Cure (SC), Medium Cure (MC), Rapid Cure (RC)
[b] Medium Cure only 30, 70, 250, 800, or 2000

REMARKS

CARPENTRY/WOODWORKING

GENERAL INFORMATION

Installation Seneca Army Depot GEOMET Rep.....T. Sletten

Calendar Year Data Represents.....93

SCC.....3-07-030-97 Building No.....113

Date.....June 6-10, 1994 Unit ID Number...Permit No. 00113

POC.....Joe Scharett

Phone No.....(607) 869-1490 Hours/day.....6 (cyclone operates 3 hrs/dy)

Date Unit Installed/Modified.. Days/week.....5

Type of process (woodworking, carpentry shop, hobby shop, other)
Box and crate shop

Manufacturer of cyclone

Model No. 005

Dimensions of cyclone (ft)
Height Width Diameter

Flow of Cyclone (psi, ft/sec.)

Dimensions of container used to collect cyclone dust
Height 7' Width 5' Depth 4'

Number of times per year container is emptied 4

NUMBER OF TIMES PER OZONE SEASON CONTAINER IS EMPTIED

NUMBER OF TIMES PER CO SEASON CONTAINER IS EMPTIED

Describe the collection system 4 radial arm saws, 2 table saws, 1 joiner, 2 bandsaws, 1 wood shaper and 1 planer attached to cyclone.

Board feet processed per year

No pressure treated lumber used.

EMISSION RATE DETERMINATION METHOD

Stack Test Data _____ Emission Factor X Material Balance _____

Similar Unit Data _____ Other _____

Reference: AP-42, VOLUME 1, SECTION 10.4, TABLE 10.4-1

OZONE PRECURSOR EMISSIONS

Typical Ozone Season Emissions

VOC Emissions		lb/day
NOx Emissions		lb/day
CO Emissions		lb/day

CRITERIA POLLUTANT EMISSIONS

VOC Emissions		ton/yr
NOx Emissions		ton/yr
CO Emissions		ton/yr
SO2 Emissions		ton/yr
PM10 Emissions	0.7220850000	ton/yr
Total Particulate	1.3650000000	ton/yr

HAZARDOUS AIR POLLUTANTS

HAP	CAS #	LB/YR
Arsenic compounds	0	NA
Chromium compounds	0	NA
Copper compounds*	0	NA

(use additional sheets if necessary)

STACK INFORMATION

Stack (release) Height		feet	Stack Gas Velocity		ft/sec
Stack Diameter		inch	Stack Gas Flow Rate		ascf/min
			Stack Gas Temperature		oF

Other sources that share this stack? _____

COMMENTS

EMISSIONS FROM WOODWORKING OPERATIONS
Federal and New York State Regulations

Facility:	Seneca Army Depot	Date:	8/24/94
Location:	Bldg 113	Initials:	DCP
ID Number:		SCC:	3-07-030-97

INPUT DATA

The hours of operation is referring to the actual hours that wood is being handled (sanded, cut, etc.) and not the shop operation hours. Consider lb/feet of wood processed to estimate this.

HOURS OF OPERATION: 780 Hrs/Yr

AMOUNT OF WOOD HANDLED: 0 Lbs/Yr
(If amount not known enter "0")

CONTROL SYSTEM PRESENT: a
A - CYCLONE
B - BAGHOUSE

DOES THE OPERATION HANDLE PRESURE TREATED WOOD? b
A - YES
B - NO

IF YES, WHAT PERCENTAGE OF THE TIME IS PRESURE TREATED WOOD HANDLED? 0 %
(If unknown enter 100%)

SOLUTION

PARTICULATE EMISSIONS (TSP)*	2,730.00	Lbs/Yr
PARTICULATE EMISSIONS (PM10)**	1,444.17	Lbs/Yr

* TSP EMISSION FACTORS OBTAINED FROM AP-42 MANUAL, SECTION 10.4, TABLE 10.4.1.
** PM10 EMISSION FACTORS BASED ON APPENDIX C.1-110 OF AP-42.

HAP EMISSIONS

HAP	CAS #	Emissions (lb/yr)
Arsenic compounds***	NA	NA
Chromium compounds***	NA	NA
Copper compounds	NA	NA

***Based on the assumption that the wood is treated with chromated copper arsenic (CCA), which, according to information received from manufacturers is applied @ 0.25 lb/ft3 or 0.00694 lb/lb of wood.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 14.21 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

Pollutant (circle one): SO_2, (NO_x), VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 2,791.53 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

Pollutant (circle one): SO_2, NO_x, VOC (CO), PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 253.78 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 11,952.80 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 742.26 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP

Pollutant Emission Rate: 863.09 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Arsenic (specify)

Pollutant Emission Rate: 8.68×10^{-1} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3.11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Beryllium (specify)

Pollutant Emission Rate: 3.20×10^{-2} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Cadmium (specify)

Pollutant Emission Rate: 1.61 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Chromium (specify)

Pollutant Emission Rate: 9.74×10^{-1} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP lead (specify)

Pollutant Emission Rate: 1.48 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Mercury (specify)

Pollutant Emission Rate: 2.44×10^{-1} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP manganese (specify)

Pollutant Emission Rate: 5.63×10^{-1} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Nickel (specify)

Pollutant Emission Rate: 1.77 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP DOM (specify)

Pollutant Emission Rate: 6.40×10^{-2} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). F.O. #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Formaldehyde (specify)

Pollutant Emission Rate: 3.08 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Copper (specify)

Pollutant Emission Rate: 2.13 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS X Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 4-1 of Estimating Air Toxic Emissions from Coal & Oil Combustion Sources.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Antimony (specify)

Pollutant Emission Rate: 3.50×10^{-1} lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Cobalt

Pollutant Emission Rate: 9.21×10^{-1} lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Selenium

Pollutant Emission Rate: 2.89×10^{-1} lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-11

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone

Pollutant Emission Rate: 0.038618 lb/day (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Boilers SCC..... 1-02-004-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, (NO_x) VOC, CO, PM_{10}, or HAP Ozone (specify)

Pollutant Emission Rate: 7.585666 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Table 1.3-2

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	14.21	14.21	0
NO_x	2,791.53	2,791.53	0
CO	253.78	253.78	0
SO_2	11,952.80	11,952.80	0
PM_{10}	742.26	742.26	0
~~Pb~~ TSP	863.09	863.09	0
HAP's (Specify)			
Arsenic	8.68×10^{-1}	8.68×10^{-1}	0
Beryllium	3.20×10^{-2}	3.20×10^{-2}	0
Cadmium	1.61	1.61	0
Chromium	9.74×10^{-1}	9.74×10^{-1}	0
lead	1.48	1.48	0
Mercury	2.44×10^{-1}	2.44×10^{-1}	0
manganese	5.63×10^{-1}	5.63×10^{-1}	0
nickel	1.77	1.77	0
POM	6.40×10^{-2}	6.40×10^{-2}	0
Formaldehyde	3.08	3.08	0
Copper	2.13	2.13	0
Antimony	3.50×10^{-1}	3.50×10^{-1}	0
Cobalt	9.21×10^{-1}	9.21×10^{-1}	0
Selenium	2.89×10^{-1}	2.89×10^{-1}	0
VOC- ozone	0.038618 lb/day	0.038618 lb/day	0
NO_x- ozone	7.585666 lb/day	7.585666 lb/day	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 4

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 22.78 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 18.60 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 60.54 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 4

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, $\boxed{NO_x}$, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 279.73 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, ~~PM_{10}~~ TSP, or HAP _____

Pollutant Emission Rate: 19.98 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or $\boxed{HAP}$ Benzene

Pollutant Emission Rate: 0.0215118151 lb/yr (specify units) (specify)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 4

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 0.0094301526 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylenes (Isomers) (specify)

Pollutant Emission Rate: 0.0065711332 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Formaldehyde (specify)

Pollutant Emission Rate: 0.0272067972 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 4

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP 1,3-Butadiene (specify)

Pollutant Emission Rate: 0.0009015134 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetaldehyde (specify)

Pollutant Emission Rate: 0.0176844182 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acrolein (specify)

Pollutant Emission Rate: 0.0021327362 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 4

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Naphthalene (specify)

Pollutant Emission Rate: 0.0019552003 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.0618959584 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.7601258052 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	22.78	22.78	0
NO_x	279.72	279.72	0
CO	60.54	60.54	0
SO_2	18.60	18.60	0
~~PM_{10}~~ TSP	19.98	19.98	0
Pb			
HAP's (Specify)			
Benzene	0.0215118151	0.0215118151	0
Toluene	0.0094301526	0.0094301526	0
Xylenes (Isomers)	0.0065711332	0.0065711332	0
Formaldehyde	0.0272067972	0.0272067972	0
1,3-Butadiene	0.0009015134	0.0009015134	0
Acetaldehyde	0.0176844182	0.0176844182	0
Acrolein	0.0021327362	0.0021327362	0
Naphthalene	0.0019552003	0.0019552003	0
VOC ozone season	0.0618959584 lb/day	0.0618959584 lb/day	0
NO_x ozone season	0.7601258052 lb/day	0.7601258052 lb/day	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 722 Fire Station

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 2.43 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 1.98 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 6.45 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 722 Fire Station

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, $\boxed{NO_x}$, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 29.79 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, $\boxed{TSP}$ ~~PM_{10}~~, or HAP _____

Pollutant Emission Rate: 2.13 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or $\boxed{HAP}$ Benzene

Pollutant Emission Rate: 0.002291192 lb/yr (specify) (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 722 Fire Station

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 0.0010043950 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylenes (Isomers) (specify)

Pollutant Emission Rate: 0.0006998840 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Formaldehyde (specify)

Pollutant Emission Rate: 0.0028977654 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 722 Fire Station

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP 1,3-Butadiene (specify)

Pollutant Emission Rate: 0.0000960192 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetaldehyde (specify)

Pollutant Emission Rate: 0.0018835475 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acrolein (specify)

Pollutant Emission Rate: 0.0002271553 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg. 722 Fire Station

Source Category..... Generators SCC..... 2-02-001-02

Fuel Type (if applicable). Diesel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Naphthalene (specify)

Pollutant Emission Rate: 0.0002082462 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.0065924689 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.0809601449 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 3.3, Table 3.3-1

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	2.43	2.43	0
NO_x	29.79	29.79	0
CO	6.45	6.45	0
SO_2	1.98	1.98	0
~~PM_{10}~~ TSP	2.13	2.13	0
Pb			
HAP's (Specify)			
Benzene	0.0022911992	0.0022911992	0
Toluene	0.0010043950	0.0010043950	0
Xylenes (Isomers)	0.0006998840	0.0006998840	0
Formaldehyde	0.0028977654	0.0028977654	0
1,3-Butadiene	0.0000960192	0.0000960192	0
Acetaldehyde	0.0018835475	0.0018835475	0
Acrolein	0.0002271553	0.0002271553	0
Napthalene	0.0002082462	0.0002082462	0
VOC ozone Season	0.0065924689	0.0065924689	0
NO_x ozone season	0.0809601449	0.0809601449	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 113, 606

Source Category..... U STs SCC..... 4-04-004-14

Fuel Type (if applicable). Fuel Oil #2

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC) CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.09 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	0.09	0.09	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 120

Source Category..... USTs SCC..... 4-04-004-14

Fuel Type (if applicable). Diesel Fuel

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.73 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP Ozone (specify)

Pollutant Emission Rate: 0.0012266 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	0.73	0.73	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
VOC-ozone	0.0012266 lb/day	0.0012266 lb/day	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 718

Source Category..... USTs SCC..... N/A

Fuel Type (if applicable). Fuel Oil #6

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.02 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	0.02	0.02	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 334

Source Category..... ASTs SCC..... 4-03-001-03

Fuel Type (if applicable). Gasoline

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 75.18 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone (specify)

Pollutant Emission Rate: 0.578199 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Section 12.3

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Hexane (specify)

Pollutant Emission Rate: 2.94 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS X Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Speciation Profile 1190

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 334

Source Category..... ASTs SCC..... 4-03-001-03

Fuel Type (if applicable). Gasoline

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or (HAP) Benzene (specify)

Pollutant Emission Rate: 2.44 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS Y Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Speciation Profile #1190

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or (HAP) Toluene (specify)

Pollutant Emission Rate: 11.44 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Speciation Profile #1190

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	75.18	75.18	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
VOC-Ozone	0.578199 lb/day	0.5779091 lb/day	0.05
Hexane	2.94	2.94	0
Benzene	~~[illegible]~~ 2.44	2.44	0
Toluene	11.44	11.44	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 122

Source Category..... Degreasing Op. SCC..... 4-01-003-35

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 53.64 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 0.269568 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ✓ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylenes (Isomers) (specify)

Pollutant Emission Rate: 0.539136 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ✓ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 122

Source Category..... Degreasing Op. SCC..... 4-01-003-35

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ethylbenzene (specify)

Pollutant Emission Rate: 0.269568 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 ✓ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Tetrachloroethylene (specify)

Pollutant Emission Rate: 0.269568 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 ✓ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Methyl Chloroform (specify)

Pollutant Emission Rate: 0.269568 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 ✓ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 122

Source Category..... Degreasing Op. SCC..... 4-01-003-35

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.1457718261 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	53.64	53.64	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
Tolnene	0.269568	0.269568	0
Xylenes (Isomers)	0.539136	0.539136	0
Ethyl Benzene	0.269568	0.269568	0
Tetrachloroethylene	0.269568	0.269568	0
Methyl chloroform	0.269568	0.269568	0
VOC Ozone Season	0.1457718261 lb/day	0.1457718261 lb/day	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 317 (COMIS)

Source Category..... Degreasers SCC..... N/A

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 135.24 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation solvent used minus solvent disposed, multiplied by density of solvent & % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP see following page (specify)

Pollutant Emission Rate: see following page (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product (used minus disposed) by % by wgt HAP

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	135.24	135.24	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
toluene	86.53	86.53	0
Xylene	14.36	14.36	0
Acetone	26.51	26.51	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 319

Source Category..... Degreasing Op. SCC..... 4-01-003-35

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 41.26 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	41.26	41.26	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 120 - Public Works Gas Station

Source Category..... Gas Station SCC..... 4-06-003-06, 4-06-003-07, 4-06-004-01, 4-06-004-02

Fuel Type (if applicable). Mogas

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____

Pollutant Emission Rate: 1739.18 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Hexane

Pollutant Emission Rate: 68.0017737956 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS ✓ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Profile 1190

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone Season

Pollutant Emission Rate: 4.9302281370 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation *

* Section 4.4, EPA Technical Guidance - Stage II Vapor Recovery Systems for control of Vehicle Refueling Emissions at Gasoline Dispensing Facilities. Volume I: EPA-4013-91 022A

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	1739.18	1739.18	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
Hexane	68.0017737956	68.0017737956	0
VOC ozone season	4.930228137	4.930228137	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC) CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 1052.16 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

Pollutant (circle one): (SO_2) NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 36.0 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

Pollutant (circle one): SO_2, (NO_x) VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 230.4 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, (CO), PM_{10}, _____ (specify)

Pollutant Emission Rate: 1108.8 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation ____ Table 11-1-10

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, (HAP) 1,3, Butadiene (specify)

Pollutant Emission Rate: 19.88582 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS X Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation ____ Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or (HAP) Formaldehyde (specify)

Pollutant Emission Rate: 162.8744 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS X Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetaldehyde (specify)

Pollutant Emission Rate: 50.81933 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Propionaldehyde (specify)

Pollutant Emission Rate: 10.31117 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acrolein (specify)

Pollutant Emission Rate: 25.04141 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Benzene (specify)

Pollutant Emission Rate: 21.25363 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 5.78688 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ethylbenzene (specify)

Pollutant Emission Rate: 1.893888 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP O-Xylene (specify)

Pollutant Emission Rate: 2.10432 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Styrene (specify)

Pollutant Emission Rate: 4.313856 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Phenol (specify)

Pollutant Emission Rate: 2.735616 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Naphthalene (specify)

Pollutant Emission Rate: 6.31296 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP m; p Xylene (specify)

Pollutant Emission Rate: 3.15648 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Heptane (specify)

Pollutant Emission Rate: 0.736512 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (C-141) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetone (specify)

Pollutant Emission Rate: 25,35706 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	1052.16	1052.16	0.0%
NO_x	230.4	230.4	0.0%
CO	1108.8	1108.8	0.0%
SO_2	36.0	36.0	0%
PM_{10}			
Pb			
HAP's (Specify)			
1,3, Butadiene	19.88582	19.88582	0.0 %
Formaldehyde	162.8744	162.8744	0.0 %
Acetaldehyde	50.81933	50.81933	0.0 %
Propionaldehyde	10.31117	10.31117	0.0 %
Acrolein	25.04141	25.04141	0.0 %
Benzene	21.25363	21.25363	0.0 %
Toluene	5.78688	5.78688	0.0 %
Ethylbenzene	1.893888	1.893888	0.0 %
o-xylene	2.10432	2.10432	0.0 %
Styrene	4.313856	4.313856	0.0 %
Phenol	2.735616	2.735616	0.0 %
Napthalene	6.31296	6.31296	0.0 %
m & p xylene	3.15648	3.15648	0.0 %
Heptane	0.736512	0.736512	0.0 %
Acetone	25.35706	25.35706	0.0 %

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 35.56 lbs/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

Pollutant (circle one): (SO_2), NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.84 lbs/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

Pollutant (circle one): SO_2, (NO_x), VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 4.20 lbs/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO (U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, (CO), PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 48.44 lbs/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

✓ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 11-1-10

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or (HAP) 1,3, Butadiene (specify)

Pollutant Emission Rate: 0.672084 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS X Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or (HAP) Formaldehyde (specify)

Pollutant Emission Rate: 5.504688 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS X Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO(U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetaldehyde (specify)

Pollutant Emission Rate: 1.717548 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Propionaldehyde (specify)

Pollutant Emission Rate: 0.348488 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acrolein (specify)

Pollutant Emission Rate: 0.846328 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

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SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO(U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Benzene (specify)

Pollutant Emission Rate: 0.7183120 (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 0.19558 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ethylbenzene (specify)

Pollutant Emission Rate: 0.064008 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO(U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP O-Xylene (specify)

Pollutant Emission Rate: 0.07112 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Styrene (specify)

Pollutant Emission Rate: 0.145796 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Phenol (specify)

Pollutant Emission Rate: 0.092456 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO(U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Naphthalene (specify)

Pollutant Emission Rate: 0.21336 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP m & p Xylene (specify)

Pollutant Emission Rate: 0.10668 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Heptane (specify)

Pollutant Emission Rate: 0.024892 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot

Source Category..... ATO(U-21) SCC..... 2-76-010-14

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetone (specify)

Pollutant Emission Rate: 0.856996 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Profile 1097

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	35.56	35.56	0.0%
NO_x	4.20	4.20	0.%
CO	48.44	48.44	0.0%
SO_2	0.84	0.84	0.0%
PM_{10}			
Pb			
HAP's (Specify)			
1,3, Butadiene	0.672084	0.672084	0.0%
Formaldehyde	5.504688	5.504688	0.0%
Acetaldehyde	1.717548	1.717548	0.0%
Propionaldehyde	0.348488	0.348488	0%
Acrolein	0.846328	0.846328	0.0%
Benzene	0.7183120	0.7183120	0.0%
Toluene	0.19558	0.195580	0.0%
Ethyl benzene	0.064008	0.064008	0.0%
o-Xylene	0.071120	0.071120	0.0%
Styrene	0.145796	0.145796	0.0%
Phenol	0.092456	0.092456	0.0%
Napthalene	0.213360	0.213360	0.0%
m-Xylene & p-Xylene	0.106680	0.106680	0.0%
Heptane	0.024892	0.024892	0.0%
Acetone	0.8656996	0.856996	0.0%

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 320

Source Category..... Welding SCC..... 3-09-999-99

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, $\boxed{PM_{10}}$ or HAP _____ (specify)

Pollutant Emission Rate: 0.009 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ✓ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Total Particulate (specify)

Pollutant Emission Rate: 0.009 (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or $\boxed{HAP}$ Cobalt Compounds (specify)

Pollutant Emission Rate: 0.0000002608 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation *

* Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 + 15.

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 320

Source Category..... Welding SCC..... 3-09-999-99

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Manganese Compounds (specify)

Pollutant Emission Rate: 0.0003777357 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS ✓ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Chromium Compounds (specify)

Pollutant Emission Rate: 0.0000013491 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Nickel Compounds (specify)

Pollutant Emission Rate: 0.0000015289 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation *

* Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 + 15.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 320

Source Category..... Welding SCC..... 3-09-999-99

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Barium (specify)

Pollutant Emission Rate: 0.0000000899 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS ✓ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Copper (specify)

Pollutant Emission Rate: 0.0000132207 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation *

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

* Section 313 Reporting Issue Paper; Clarification and Guidance for the Metal Fabrication Industry, 14 & 15.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC			
NO_x			
CO			
SO_2			
PM_{10}	0.009	0.009	0
Total Particulate	0.009	0.009	0
HAP's (Specify)			
Cobalt Cmpds	0.0000002608	0.0000002608	0
Manganese Cmpds	0.0003777357	0.0003777357	0
Chromium Cmpds	0.0000013491	0.0000013491	0
Nickel Cmpds	0.0000015289	0.0000015289	0
Barium	0.0000000899	0.0000000899	0
Copper	0.0000132207	0.0000132207	0

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 317

Source Category..... Abrasive Blasting SCC..... A2309100200

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP (specify)

Pollutant Emission Rate: 0.8 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Air Quality Permits, Vol 1 Section 2.3.1

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.56 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Air Quality Permits, Vol 1, Section 2.3.1

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC			
NO_x			
CO			
SO_2			
PM_{10}	0.56	0.56	0
~~Pb~~ TSP	0.8	0.8	0
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

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SOURCE INFORMATION

Source Description..... Seneca Army Depot Bldg 360 CARC Paint

Source Category..... Painting Operations SCC..... 4-02-001-10

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 104.979 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % weight VOC

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 20.731 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % by weight pigment and paint transfer efficiency

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP (specify)

Pollutant Emission Rate: 44.391 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % by weight pigment & paint transfer efficiency

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description.....Seneca Army Depot Bldg 360 CARC Paint

Source Category.....Painting operations **SCC**.....4-02-001-10

Fuel Type (if applicable).____

Control Equipment: ____ **Control Efficiency (%)** ____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Hexamethylene-1,6-diisocyanate (specify)

Pollutant Emission Rate: 0.3 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) ____

Cite reference and describe calculation Multiply usage (weight) by % by weight Hexamethylene-1,6-diisocyanate

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Butyl Acetate (specify)

Pollutant Emission Rate: 16.3 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) ____

Cite reference and describe calculation Multiply usage (weight) by % by weight Butyl Acetate

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Chromium Compounds (specify)

Pollutant Emission Rate: 32.7 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) ____

Cite reference and describe calculation Multiply usage (weight) by % by weight Chromium Compounds

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot Bldg 360 CARC Paint

Source Category..... Painting Operations SCC..... 4-02-001-10

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Methyl isobutyl Ketone (specify)

Pollutant Emission Rate: 16.3 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % by weight Methyl isobutyl Ketone

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Toluene (specify)

Pollutant Emission Rate: 16.3 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % by weight Toluene

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylene (specify)

Pollutant Emission Rate: 49.0 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Multiply usage (weight) by % by weight Xylene

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	104.979	104.979	0%
NO_x			
CO			
SO_2			
PM_{10}	20.731	20.731	0%
Pb			
TSP	44.391	44.391	0%
HAP's (Specify)			
Hexamethylene-1,6-diisocyanate	0.3	0.3	0%
Butyl Acetate	16.3	16.3	0%
Chromium Compounds	32.7	32.7	0%
Methyl isobutyl Ketone	16.3	16.3	0%
Toluene	16.3	16.3	0%
Xylene	49.0	49.0	0%

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - So-Sure Lacquer (Gray)

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 161.539 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Convert usage (volume) to weight by multiplying by specific gravity, density, then multiply % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP (specify)

Pollutant Emission Rate: 19.890 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt pigment & paint transfer efficiency

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP See following page (specify)

Pollutant Emission Rate: See following page (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	161.539	161.539	0
NO_x			
CO			
SO_2			
PM_{10}			
~~PM~~ TSP	19.890	19.890	0
HAP's (Specify)			
Acetone	36.620	36.620	0
Toluene	57.477	57.477	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - So-Sure Flat Black Lequer

Source Category..... Surface Coating SCC..... 4-02-799-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, [VOC] CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 2.575 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt VOCs

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP (specify)

Pollutant Emission Rate: 0.213 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt pigment + paint transfer efficiency

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP See following page (specify)

Pollutant Emission Rate: See following page (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by HAP

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	2.575	2.575	0
NO_x			
CO			
SO_2			
~~PM_{10}~~ TSP	0.213	0.213	0
Pb			
HAP's (Specify)			
Acetone	0.746	0.746	0
MEK	0.109	0.109	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Latex Brown

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, [VOC] CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 11.831 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water, & % by wgt VOC

Pollutant (circle one): SO_2, NO_x, [VOC] CO, PM_{10}, or HAP Ozone Season (specify)

Pollutant Emission Rate: 0.032 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply VOC emissions by $\frac{12 \text{ months/yr}}{3 \text{ months/Ozone season}}$ and divide by number of days per Ozone Season (92).

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or [HAP] ethylene glycol (specify)

Pollutant Emission Rate: 11.831 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	11.831	11.831	0
~~NO_x~~ O_3 VOC	0.032 lb/day	0.032 lb/day	0
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
ethylene glycol	11.831	11.831	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Polyurethane Sealer

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 162.313 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water & % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone season VOC (specify)

Pollutant Emission Rate: 0.441 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP See following page (specify)

Pollutant Emission Rate: See following page (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	162.313	162.313	0
~~NO_x~~ O_3 VOC	0.441	0.441	0
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
butyl acetate	34.141	34.141	0
toluene	17.071	17.071	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Olive Drab Enamel

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 69.893 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by % by wgt VOC, specific gravity & density of water.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP methyl ethyl ketone (specify)

Pollutant Emission Rate: 8.847 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply wgt of product by % by wgt HAP.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP toluene (specify)

Pollutant Emission Rate: 8.847 (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply wgt of product by % by wgt HAP.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	69.893	69.893	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
mek	8.847	8.847	0
toluene	8.847	8.847	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Gray Floor Enamel

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 118.371 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water and % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	118.371	118.371	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Enamel Paint

Source Category..... 4-02-999-95 SCC..... Surface Coating

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 56.250 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water and % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Isopropyl Alcohol (specify)

Pollutant Emission Rate: 2.673 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylene (specify)

Pollutant Emission Rate: 34.213 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	56.250	56.250	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
isopropyl alcohol	2.673	2.673	0
Xylene	34.213	34.213	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Aluminum Boiler Point

Source Category..... Surface Coating SCC..... 4-02-999-95

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 11.673 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity density of water and % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP toluene (specify)

Pollutant Emission Rate: 9.883 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Xylene (specify)

Pollutant Emission Rate: 1.153 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	11.673	11.673	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
toluene	9.883	9.883	0
Xylene	1.153	1.153	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 117 - NAPA Battery Cleaner

Source Category..... miscellaneous Chemicals SCC..... 4-01-888-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 43.828 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt VOCs

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP methylene chloride (specify)

Pollutant Emission Rate: 7.734 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply % by wgt HAP by weight of product

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Acetone (specify)

Pollutant Emission Rate: 17.016 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply % by wgt HAP by wgt of product -

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	43.828	43.828	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
methylene chloride	7.734	7.734	0
Acetone	17.016	17.016	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 117 - Rifle Bore Cleaner

Source Category..... Miscellaneous Chemicals SCC..... 4-01-888-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 26.205 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water and % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	26.205	26.205	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 118 - NAPA Silicon Lubricant

Source Category..... miscellaneous Chemicals SCC..... 4-01-888-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, [VOC], CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 3.54 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by weight VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or [HAP] Hexane (specify)

Pollutant Emission Rate: 1.860 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP methyl chloroform (specify)

Pollutant Emission Rate: 2.28 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP.

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	3.54	3.54	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
hexane	1.860	1.860	0
methyl chloroform	2.280	2.280	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 122 - CRC 556

Source Category..... 4-01-888-01 SCC..... miscellaneous Chemicals

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 11.34 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP methyl chloroform (specify)

Pollutant Emission Rate: 7.83 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	11.34	11.34	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
methyl chloroform	7.83	7.83	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 317 - P19 CPC

Source Category..... miscellaneous chemicals SCC..... 4-01-888-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 440.387 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water & % by wgt VOC

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone season VOC (specify)

Pollutant Emission Rate: 1.197 lb/day (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	440.387	440.387	0
NO_x O_3 VOC	1.197	1.197	0
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 321 - Denatured Alcohol

Source Category..... Miscellaneous Chemicals SCC..... 4-01-888-01

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 31.013 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42	X MSDS	____ Other Emission Factor
____ Emission Model	X Material Balance	____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by specific gravity, density of water, & % by wgt VOC.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP methanol (specify)

Pollutant Emission Rate: 1.489 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42	X MSDS	____ Other Emission Factor
____ Emission Model	X Material Balance	____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42	____ MSDS	____ Other Emission Factor
____ Emission Model	____ Material Balance	____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	31.013	31.013	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
methanol	1.489	1.489	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Bldg 357 - PD 680

Source Category..... Miscellaneous Chemicals SCC..... 4-01-888-01

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 23.002 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	23.00d	23.00d	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Arsenal

Source Category..... Pesticides SCC..... A2461800000

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, [VOC] CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.009 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 X MSDS _____ Other Emission Factor

_____ Emission Model X Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply volume of pestiide used annually, by concentration (%), specific gravity, density of water & % by wgt VOCs.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP Ozone season VOC (specify)

Pollutant Emission Rate: <0.1 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation multiply smoot usage for June-August by concentration, specific gravity, density of water, & % by wgt VOC, the divide by # of days in Ozone season

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP isopropylamine (specify)

Pollutant Emission Rate: 0.046 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	0.009	0.009	0
NO_x			
CO			
SO_2			
PM_{10}			
~~PM~~ ozone VOC	<0.1 lb/day	<0.1 lb/day	0
HAP's (Specify)			
isopropylamine	0.046	0.046	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - Imazapyr

Source Category..... Pesticides SCC..... A2461800000

Fuel Type (if applicable)._____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 0.0027 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model X Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply usage (volume) by concentration (%), specific gravity, density of water & % by wgt VOCs.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP isopropyl amine (specify)

Pollutant Emission Rate: 0.014 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 X MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation multiply weight of product by % by wgt HAP.

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	0.0027	0.0027	0
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
isopropylamine	0.014	0.014	0

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot - WTP at bldg 2411

Source Category..... Water treatment SCC..... 5-01-007-01

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP chlorine (specify)

Pollutant Emission Rate: 121.8 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS X Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation Unit operations in Wastewater Treatment

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

_____ AP-42 _____ MSDS _____ Other Emission Factor

_____ Emission Model _____ Material Balance _____ Emission Test Data

_____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC			
NO_x			
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			
Chlorine	121.8	121.8	

*Percent Deviation = [(original - audit)/original)] x 100

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Firefighting Training

Source Category..... _____ SCC..... 5-01-006-04

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, (VOC), CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 930.8 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.10-1, AP-42

Pollutant (circle one): SO_2, (NO_x) VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 59.5 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation Table 1.10-1, AP-42

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

____ AP-42 ____ MSDS ____ Other Emission Factor

____ Emission Model ____ Material Balance ____ Emission Test Data

____ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC	930.8	930.8	0
NO_x	59.5	59.5	0
CO			
SO_2			
PM_{10}			
Pb			
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AQ), APG,MD 21010-5422

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM

Page___ of ___

SOURCE INFORMATION

Source Description..... Seneca Army Depot, Bldg 113

Source Category..... Carpentry / Woodworking SCC..... 3-07-030-97

Fuel Type (if applicable). _____

Control Equipment: _____ Control Efficiency (%) _____

EMISSION INFORMATION

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP TSP (specify)

Pollutant Emission Rate: 2,730.0 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Section 10.4

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: 1,444.17 lb/yr (specify units)

Source of Emission Data: (check all appropriate and provide details)

X AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation Appendix C. 1-110

Pollutant (circle one): SO_2, NO_x, VOC, CO, PM_{10}, or HAP _____ (specify)

Pollutant Emission Rate: _____ (specify units)

Source of Emission Data: (check all appropriate and provide details)

___ AP-42 ___ MSDS ___ Other Emission Factor

___ Emission Model ___ Material Balance ___ Emission Test Data

___ Other (specify) _____

Cite reference and describe calculation _____

AUDIT OF EMISSION DATA
CALCULATIONS VERIFICATION FORM (Continued)

CALCULATED EMISSIONS

Pollutant	Audit Calculations (lb/yr)	Original Calculations (lb/yr)	Percent Deviation*
VOC			
NO_x			
CO			
SO_2			
PM_{10}	1,444.17	1,444.17	0
~~Pb~~ TSP	2,730.0	2,730.	0
HAP's (Specify)			

*Percent Deviation = [(original - audit)/original)] x 100

Proponent of this form is USAEHA(HSHB-ME-AO), APG,MD 21010-5422