30 Dan Road • Canton, Massachusetts | 02021-2809 • (781) 401 | 3200 • Fax: (781) 401-2573

Till

May 10, 2001

Major David Sheets
CEHNC-PM-EO
U.S. Army Corps of Engineers
Engineering and Support Center, Huntsville
4820 University Square
Huntsville, AL 35816-1822

SUBJECT: Period 19 Monthly Progress Report, for the Period Ending April 27, 2001, for

OE-EE/CA Activities, Task Order 52 at the Seneca Army Depot Activity

(SEDA) under Contract DACA87-95-D-0018

Dear Major Sheets:

Enclosed with this cover letter is the monthly progress report for the 19th period of the job that period ending on April 27, 2001. Task Order 52 describes the Ordnance and Explosive (OE) Engineering Evaluation/Cost Analysis (EE/CA) at the Seneca Army Depot Activity (SEDA). This monthly report is based on the Mod 2 scope and does not include adjustments being made as Mod 3. This monthly report reflects Mod 2 values and will include Mod 3 amounts once they are final. The report is included at this time for use in tracking progress on tasks 2 and 3.

TASK ORDER 52 (OE-EE/CA at the Seneca Army Depot Activity)

As described previously, this task order consists of three (3) Work Breakdown Structures (WBS). Each Scope of Work (SOW) task has been included into one of the three (3) WBS tasks. The first task, WBS 01000, includes all the SOW fieldwork tasks, the second task, WBS 02000, includes all report writing, and the third, WBS 03000, includes all project and program management tasks including Community Relations Support.

WBS 01000, the Fieldwork task, was initiated at the beginning of the project. The original scope and later requested investigations are largely complete. Site Visit and Records Review, geophysical test plot, the Indian Creek Burial Ground field investigation, the Grenade Range field investigation, the EOD Area #2 field investigation, and the Igloo Area 'Ditch D' investigation are all 100% complete. Based on grid coverage, the investigations of the remaining field sites are 80% or more complete.

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Major David Sheets May 10, 2001 Page 2

Parsons has investigated 11,705 anomalies to date, which is more than twice the originally estimate of 5,128 anomalies.

With the final Mod 3 amounts we can once again accurately report to you the relationship between field actual and estimated costs. The report as it stands now for task 1 does not reflect the additional budget needed for work done at the request of the contracting officer nor the impact of finding roughly twice as many anomalies as budgeted for.

WBS Task 02000, the report preparation task, was the active task this period and is 80% complete. The ACWP is \$59,942, BCWP is \$253,246, and the BCWS is now \$302,619. This WBS remains substantially under budget and on schedule. During the last period, Parsons began to produce the Draft Final version of the OE EE/CA report, which will be completed during the next period.

WBS Task 03000, the project management task, has ACWP through Period 19 of \$129,130. The BCWS is \$127,897. This variance is attributable in part to a partnering session held in Atlanta that was not originally anticipated.

As mentioned previously, this report is based on the Mod 2 scope and does not reflect the actual scope as it is currently defined and further defined when Mod 3 is final. With Mod 3 complete the tracking program will be modified to reflect the agreed to work and budgets making these reports more precise, accurate, and useful once again. Even though imprecise, the general trending on the project is under budget and at or slightly behind schedule. This is the 19th monthly progress report.

If you have any questions, please do not hesitate to call me at (781) 401-2307.

Very truly yours,

PARSONS ENGINEERING SCIENCE, INC.

Scott Sauchuk, C.G.

Task Order Manager

Enclosures

CC:

Major David Sheets May 10, 2001 Page 3

Mr. Michael Duchesneau, Parsons Engineering Science, Inc., Boston

Mr. James Lowerre, Parsons Engineering Science, Inc., Boston

Mr. Stephen Absolom, Seneca Army Depot Activity

Mr. Randall Battaglia, CENAN, Seneca Army Depot Activity

		SUMMARY		1							
		Starting date	: Sep-25-99	1							
		Ending Date	: May-31-01	1							
WORK TASK	Breakdown	Total	Sep/99	Oct/99	Nov/99	Dec/99	Jan/00	Feb/00	Mar/00	Apr/00	May/00
Approved	Hours	11,332	0	303	243	243	1,173	353	353	1,793	1,903
Monthly	Burdened labor	\$745,313	\$0	\$19,929	\$15,982	\$15,982	\$77,149	\$23,217	\$23,217	\$117,927	\$125,162
	Subcontracts	\$676,843	\$0	\$10,514	\$1,814	\$1,814	\$8,444	\$334	\$334	\$187,334	\$201,534
	ODC's	\$298,613	\$0	\$3,335	\$5,525	\$5,525	\$5,905	\$1,755	\$1,755	\$73,685	\$110,285
	Avg. Labor Rate		#DIV/0!	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77
	BAC	\$1,720,769	\$0	\$33,778	\$23,321	\$23,321	\$91,498	\$25,306	\$25,306	\$378,946	\$436,981
Cumulative	Hours		0	303	546	789	1,962	2,315	2,668	4,461	6,364
	Burdened labor		\$0	\$19,929	\$35,911	\$51,893	\$129,042	\$152,259	\$175,476	\$293,403	\$418,564
	Subcontracts		\$0	\$10,514	\$12,328	\$14,142	\$22,586	\$22,920	\$23,254	\$210,588	\$412,122
	ODC's		\$0	\$3,335	\$8,860	\$14,385	\$20,290	\$22,045	\$23,800	\$97,485	\$207,770
	BCWS		SO.	\$33,778	\$57,099	\$80,420	\$171,918	\$197,224	\$222,530	\$601,476	\$1,038,456
Actual	Hours			193	169	146	313	407	427	179	337
Monthly	Burdened labor			\$15,942	\$14,442	\$9,026	\$18,901	\$31,178	\$29,366	\$12,764	\$23,305
	Subcontracts			\$0	\$0	\$0	\$0	\$5,900	\$5,956	\$1,941	\$0
	ODC's			\$647	\$3,301	\$465	\$4,230	\$4,033	\$6,777	\$301	\$5,299
	Unbilled ODCs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Unbilled Subs			\$0	\$0	50	\$0	\$0	\$0	\$0	\$0
	Avg. Labor Rate			\$82.60	\$85.26	\$61.95	\$60,44	\$76.53	\$68.77	\$71.29	\$69.15
	ACWP			\$16,589	\$17,744	\$9,491	\$23,130	\$41,111	\$42,099	\$15,006	\$28,604
Cumulative	Hours			193	362	508	821	1,228	1,655	1,834	2,171
	Burdened labor			\$15,942	\$30,384	\$39,411	\$58,311	\$89,489	\$118,855	\$131,619	\$154,924
	Subcontracts			SO	\$0	\$0	\$0	\$5,900	\$11,856	\$13,797	\$13,797
	ODC's			\$647	\$3,948	\$4,413	\$8,642	\$12,675	\$19,453	\$19,754	\$25,053
	% Complete			2%	20.0	3° o	5%	7%	8%	9%	90.0
	Unbilled ODCs			S0	\$0	S0	\$0	\$0	\$0	\$0	\$0
	Unbilled Subs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	ACWP			\$16,589	\$34,333	\$43,823	\$66,954	\$108,064	\$150,163	\$165,169	\$193,774
	BCWP			\$25,853	\$35,351	\$51,623	\$90,925	\$123,620	\$135,115	\$151,970	\$156,196
	ETC			\$1,694,916	\$1,685,418	\$1,669,146	\$1,629,844	\$1,597,149	\$1,585,654	\$1,568,799	\$1,564,573
	Percent Spent			1%	2%	3%	10.0	6%	9%	10%	11%

Jun/00	Jul/00	Aug/00	Sep/00	Oct/00	Nov/00	Dec/00	Jan/01	Feb/01	Mar/01	Apr/01	May/01
403	403	403	403	403	233	239	493	493	493	493	509
\$26,506	\$26,506	\$26,506	\$26,506	\$26,506	\$15,325	\$15,719	\$32,425	\$32,425	\$32,425	\$32,425	\$33,477
\$36,734	\$36,734	\$36,734	\$36,734	\$36,734	\$18,794	\$18,784	\$8,694	\$8,694	\$8,694	\$8,704	\$8,687
\$11,295	\$11,295	\$11,295	\$11,295	\$11,295	\$6,045	\$6,032	\$4,455	\$4,455	\$4,455	\$4,455	\$4,471
\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77	\$65.77
\$74,535	\$74,535	\$74,535	\$74,535	\$74,535	\$40,164	\$40,535	\$45,574	\$45,574	\$45,574	\$45,584	\$46,635
6,767	7,170	7,573	7,976	8,379	8,612	8,851	9,344	9,837	10,330	10,823	11,332
\$445,070	\$471,576	\$498,081	\$524,587	\$551,092	\$566,417	\$582,136	\$614,561	\$646,986	\$679,411	\$711,836	\$745,313
\$448,856	\$485,590	\$522,324	\$559,058	\$595,792	\$614,586	\$633,370	\$642,064	\$650,758	\$659,452	\$668,156	\$676,843
\$219,065	\$230,360	\$241,655	\$252,950	\$264,245	\$270,290	\$276,322	\$280,777	\$285,232	\$289,687	\$294,142	\$298,613
\$1,112,991	\$1,187,526	\$1,262,060	\$1,336,595	\$1,411,129	\$1,451,293	\$1,491,828	\$1,537,402	\$1,582,976	\$1,628,550	\$1,674,134	\$1,720,76
362	1,157	1,401	1,501	908	621	723	371	364	213	75	311
\$21,699	\$59,019	\$66,650	\$74,522	\$46,628	\$32,155	\$37,052	\$21,824	\$23,522	\$16,498	\$5,315	
\$0	\$0	\$0	\$0	\$186,559	\$183,773	\$123,710	\$0	\$167,173	\$25,447	\$39,676	
\$1,456	\$5,563	\$19,230	\$53,634	\$22,731	\$38,748	\$31,786	\$24,247	\$7,814	\$6,784	\$7,710	
SO	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	SO	S0	
\$0	\$0	\$0	\$0	\$0	SO.	\$0	\$0	\$0	SO.	\$0	
\$59.94	\$51.02	\$47.59	\$49.64	\$51.36	\$51.80	\$51.23	\$58.90	\$64.62	\$77.29	\$71.35	
\$23,154	\$64,583	\$85,881	\$128,156	\$255,918	\$254,676	\$192,548	S-46,071	\$198,509	\$48,729	\$52,701	
2,533	3,690	5,091	6,592	7,499	8,120	8,843	9,214	9,578	9,791	9,866	
\$176,622	\$235,642	\$302,292	\$376,814	\$423,442	\$455,597	\$492,649	\$514,473	\$537,994	\$554,492	\$559,807	
\$13,797	\$13,797	\$13,797	\$13,797	\$200,356	\$384,129	\$507,839	\$507,839	\$675,012	\$700,458	\$740,134	
\$26,509	\$32,072	\$51,303	\$104,936	\$127,667	\$166,416	\$198,202	\$222,449	\$230,263	\$237,048	\$244,757	
10%	18%	31%	31%	42%	50%	52%	58%	65%	88%	89%	
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
\$216,928	\$281,510	\$367,391	\$495.547	\$751,465	\$1,006,141	\$1,198,689	\$1,244,760	\$1,443,269	\$1,491,998	\$1,544,699	
\$168,154	\$305,938	\$527,760	\$529,577	\$720,438	\$866,696	\$890,257	\$1,003,594	\$1,117,991	\$1,516,362	\$1,531,058	
\$1,552,615	\$1,414,831	\$1,193,009	\$1,191,192	\$1,000,331	\$854,073	\$830,512	\$717,175	\$602,778	\$204,407	\$189,711	
13%	16%	21%	29%	440.0	58%	70%	72%	84%	87%	90%	

SUMMARY

	BCW'S	BCNP	ACNP	SV.	C/.	BAC	ETC	EAC	V'AC
Hours	10823	10083	9866						
Burdened Labor	\$711,836	\$663,144	\$559,807						
Subcontracts	\$668,156	\$602,222	\$740,134						
ODCs	\$294,142	\$265,692	\$244,757						
Unbilled ODCs			\$0						
Unbilled Subs			S0						
Total	\$1,674,134	\$1,531,058	i	i		\$1,720,769		\$1,734,410	-\$13,641

SUMMARY

	Month	Cumulative
Budgeted Hours	493	10,823
Actual Hours	75	9,866
Budgeted Avg. Rate	\$65.77	\$65.77
Actual Avg. Rate	\$71.35	\$56.74

OEMGAPR2.xls

	TASK 1: Fie	eldwork									
		Starting date:	Oct-01-99								
		Ending Date:	Dec-31-00								
WORK TASK	Breakdown	Total	Sep/99	Oct/99	Nov/99	Dec/99	Jan/00	Feb/00	Mar/00	Apr/00	May/00
Approved	Hours	6,216		240	180	180	0	0	0	1,730	1,840
lonthly	Burdened labor	\$362,445		\$13,994	\$10,496	\$10,496	\$0	\$0	\$0	\$100,874	\$107,287
	Subcontracts	\$620,250		\$10,180	\$1,480	\$1,480	\$0	\$0	\$0	\$187,000	\$201,200
	ODC's	\$257,487		\$2,550	\$4,740	\$4,740	\$0	\$0	SO SO	\$72,900	\$109,500
	Avg. Labor Rate			58.31	58.31	58.31	#DI7.:0;	#DIV/0!	#DIV/0!	58.31	58.31
	BAC	\$1,240,182		\$26,724	\$16,716	\$16,716	\$0	\$0	\$0	\$360,774	\$417,987
Cumulative	Hours			240	420	600	600	600	600	2,330	4,170
	Burdened labor			\$13,994	\$24,490	\$34,985	\$34,985	\$34,985	\$34,985	\$135,859	\$243,146
	Subcontracts			\$10,180	\$11,660	\$13,140	\$13,140	\$13,140	\$13,140	\$200,140	\$401,340
	ODC's			\$2,550	\$7,290	\$12,030	\$12,030	\$12,030	\$12,030	\$84,930	\$194,430
	BCWS			\$26,724	\$43,440	\$60,155	\$60,155	\$60,155	\$60,155	\$420,929	\$838,916
Actual	Hours			87	113	96	286	186	207	59	188
Monthly	Burdened labor			\$7,069	\$8,379	\$5,011	\$15,899	\$10,757	\$10,343	\$2,814	\$9,976
	Subcontracts			50	\$0	\$0	S0	\$5,900	\$5,956	\$1,941	\$0
	ODC's			\$479	\$2,794	\$284	\$4,069	\$3,988	\$5,349	\$204	\$1,889
	Unbilled ODCs										
	Unbilled Subs										
	Avg. Labor Rate			\$81.25	\$74.15	\$52.20	\$55.69	\$57.99	\$49.97	\$47.70	\$53.20
	ACWP			\$7,548	\$11,173	\$5,295	\$19,968	\$20,644	\$21,648	\$4,960	\$14,865
Cumulative	Hours			87	200	296	582	767	974	1,033	1,221
	Burdened labor			\$7,069	\$15,448	\$20,459	\$36,358	\$47,114	\$57,458	\$60,272	\$70,248
	Subcontracts			\$0	\$0	\$0	\$0	\$5,900	\$11,856	\$13,797	\$13,797
	ODC's			\$479	\$3,273	\$3,557	\$7,626	\$11,614	\$16,963	\$17,168	\$22.057
	% Complete			1.720%	200	3°°	5%	5%	50%	6° •	6%
	Unbilled ODCs			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Unbilled Subs			\$0	\$0	\$0	\$0	\$0	\$0	50	\$0
	ACWP			\$7,548	\$18,720	\$24,016	\$13,981	\$64,628	\$86,277	\$91,236	\$106,101
	BC\\'P			\$21,331	\$26,292	\$42,662	\$63,497	\$66,970	\$66,970	\$78,702	\$78,702
	ETC			\$1,218,851	\$1,213,890	\$1,197,520	\$1,176,685	\$1,173,212	\$1,173,212	\$1,161,480	\$1,161,480
	Percent Spent			1%	2%	2%	1%	5%	7%	7%	94.0

Jun/00	Ju1/00	Aug/00	Sep/00	Oct/00	Nov/00	Dec/00	Jan/01	Feb/01	Mar/01	Apr/01	May/01
340	340	340	340	340	170	176					
\$19,825	\$19,825	\$19,825	\$19,825	\$19,825	\$9,912	\$10,262					
\$36,400	\$36,400	\$36,400	\$36,400	\$36,400	\$18,460	\$18,450					
\$10,510	\$10,510	\$10,510	\$10,510	\$10,510	\$5,260	\$5,247					
58.31	58.31	58.31	58.31	58.31	58.31	58.31					
\$66,735	\$66,735	\$66,735	\$66,735	\$66,735	\$33,632	\$33,959					
4,510	4,850	5,190	5,530	5,870	6,040	6,216					
\$262,971	\$282,796	\$302,621	\$322,445	\$342,270	\$352,183	\$362,445					
\$437,740	\$474,140	\$510,540	\$546,940	\$583,340	\$601,800	\$620,250					
\$204,940	\$215,450	\$225,960	\$236,470	\$246,980	\$252,240	\$257,487					
\$905,651	\$972,386	\$1,039,121	\$1,105,855	\$1,172,590	\$1,206,223	\$1,240,182					
259	1,103	1,361	1,458	834	552	660	294	10	5	1	
\$12,058	\$53,707	\$62,782	\$70,087	\$38,899	\$25,173	\$31,729	\$15,180	\$2,050	\$254	\$80	
\$0	\$0	\$0	\$0	\$186,559	\$183,773	\$123,710	\$0	\$167,173	\$25,447	\$39,676	
\$1,050	\$5,404	\$17,752	\$53,193	\$21,874	\$38,646	\$31,712	\$24,164	\$4,913	\$6,569	\$5,911	
\$46.56	\$48.71	\$46.13	\$48.08	\$46.67	\$45.64	\$48.96	561.69	561.24	560.01	600.20	
\$13,108		\$80,534					\$51.68	\$51.24	\$50.84	\$80.38	
	\$59,111		\$123,280	\$247,332	\$247,592	\$187,151	\$39,345	\$174,136	\$32,270	\$45,667	-
1,480	2.582	3,943	5,401	6,234	6,786	7,446	7,740	7,780	7,785	7,786	
\$82,306 \$13,797	\$136,013 \$13,797	\$198,795	\$268,881	\$307,780	\$332,953	\$364.682	\$379,862	\$381,912	\$382,166	\$382,246	
		\$13,797	\$13,797	\$200,356	\$384,129	\$507,839	\$507,839	\$675,012	\$700,458	\$740,134	
\$23,107 7%	S28,511 18%	\$46,263 36%	\$99,456	\$121,330 51%	\$159,976	\$191.688	\$215,853	\$220,766	\$227,335	\$233,245	-
\$0	50	\$0	36° o	\$0	63° 6	65° o	65° o	65° o	95%	95°°	
\$0	\$0 \$0	\$0 \$0	S0 S0	\$0 \$0	S0 S0	S0 S0	\$0 \$0	S0 S0	\$0 \$0	\$0 \$0	_
\$119,209	\$178,321	\$258,855	\$382,134	\$629,466	\$877,058	\$1,064,209	\$1,103,554	\$1,277,689	\$1,309,959	\$1,355,626	
286,441	\$224,361	\$443,675	\$443,675	\$631,997	\$778,400	\$800,165	\$800,165	\$800,165	\$1,309,939	\$1,355,626	
\$1,153,741	\$1,015,821	\$796,507	\$796,507	\$608,185	\$461,782	\$440,017	\$440,017	\$440,017	\$60,645	\$60,645	
10%	140	21%	31%	51%	71%	86%	89%	103%	106%	109%	

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BCWS BCWP ACWP SV CV BAC ETG ned Labor S0 \$344,721 \$382,246 ACMB <					***			5
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Page 1

	Month	Cumulative
Budgeted Hours	0	0
Actual Hours	1	7,786
Budgeted Avg. Rate	\$0.00	\$0.00
Actual Avg. Rate	\$80.38	\$49.09

	TASK 2: Re	port Preparation										
		Starting date:	Jan-01-00									
		Ending Date:	May-31-01									
WORK TASK	Breakdown	Total	Sep/99	Oct/99	Nov/99	Dec/99	Jan/00	Feb/00	Mar/00	Apr/00	May/00	Jun/00
Approved	Hours	3,856					1,110	290	290			
Monthly	Burdened labor	\$270,620					\$77,902	\$20,353	\$20,353	\$0	\$0	50
	Subcontracts	\$49,922					\$8,110					
	ODC's	\$25,423					\$5,120	\$9*0	\$970			
	Avg. Labor Rate						70.18	~0.18	70.18	*DIV'0!	=DIV:0!	#DIV 0!
	BAC	\$345,965					\$91,132	\$21,323	\$21,323	\$0	\$0	\$0
Cumulative	Hours						1,110	1,400	1,690	1,690	1,690	1,690
	Burdened labor						\$77,902	\$98,254	\$118,607	\$118,607	\$118,607	\$118,607
	Subcontracts						\$8,110	\$8,110	\$8,110	\$8,110	\$8,110	\$8,110
	ODC's						\$5,120	\$6,090	\$7,060	\$7,060	\$7,060	\$7,060
	BC///S						\$91,132	\$112,454	\$133,777	\$133,777	\$133,777	\$133,777
Actual	Hows			0	0	0	0	11	16	68	110	55
Monthly	Burdened labor			\$0	50	50	\$0	\$4,802	\$1,815	\$5,163	\$8,932	\$4,173
	Subcontracts			\$0	\$0	\$0	\$0	\$0	02	\$0	\$0	50
	ODC's			\$0	50	50	\$0	\$0	\$963	\$10	\$32	\$392
	Unbilled ODCs											
	Unbilled Subs											
	Avg. Labor Rate							\$109.13	\$113.43	\$75.93	\$81.20	\$75.8
	ACWP			\$0	50	50	\$0	24,802	\$2,778	\$5,173	\$8,964	\$4,565
Cumulative	Hours			0	0	0	0	11	60	128	238	293
	Burdened labor			50	\$0	50	50	\$4,802	\$6,616	\$11,779	\$20,711	524,884
	Subcontracts			50	50	50	\$0	50	\$0	50	\$0	50
	ODC's			\$0	50	\$0	\$0	\$0	\$963	\$9*3	\$1,005	\$1,39
	° o Complete			\$0	0°°	0°°	700	1100	1200	13%	13° o	1400
	Unbilled ODCs			50	50	50	50	\$0	\$0	50	\$0	50
	Unbilled Subs			\$0	50	50	SO	50	\$0	\$0	\$0	\$0
	ACWP			\$0	50	\$0	\$0	\$4,802	\$7,580	\$12,753	\$21,716	\$26,281
	BC///P			50	50	50	\$12,109	\$38,748	\$41,170	\$43,592	\$46,013	\$48,435
	ETC			\$345,965	\$345,965	\$345,965	\$333,850	\$307.217	5304,795	\$302,3~3	\$299,952	\$297,530
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	Hours	urdened Labor	ubcontracts	ODCs	Inbilled ODCs	inbilled Subs	Tota)

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	Month	Cumulative
Budgeted Hours	430	3,410
Actual Hours	54	741
Budgeted Avg. Rate	\$70.18	\$70.18
Actual Avg. Rate	\$74.29	\$74.93

	TASK 3: Project Management										
		Starting date:	Oct-01-99								
		Ending Date:	May-31-01								
WORK TASK	Breakdown	Total	Sep/99	Oct/99	Nov/99	Dec/99	Jan/00	Feb/00	Mar/00	Apr/00	May/00
Approved	Hours	1,260		63	63	63	63	63	63	63	63
Monthly	Burdened labor	\$112,248		\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612
	Subcontracts	\$6,671		\$334	\$334	\$334	\$334	\$334	\$334	\$334	\$334
	ODC's	\$15,703		\$785	\$785	\$785	\$785	\$785	\$785	\$785	\$785
	Avg. Labor Rate			89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09
	BAC	\$134,622		\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731
Cumulative	Hours			63	126	189	252	315	378	411	504
	Burdened labor			\$5,612	\$11,225	\$16,837	\$22,450	\$28,062	\$33,674	\$39,287	\$44,899
	Subcontracts			\$334	\$668	\$1,002	\$1,336	\$1,670	\$2,004	\$2,338	\$2,672
	ODC's			\$785	\$1,570	\$2,355	\$3,140	\$3,925	\$4,710	\$5,495	\$6,280
	BCW'S			\$6,731	\$13,463	\$20,194	\$26,926	\$33,657	\$40,388	\$47,120	\$53,851
Actual	Hours			106	56	50	27	178	204	52	10
Monthly	Burdened labor			\$8,873	\$6,064	\$4,015	\$3,002	\$15,620	\$17,207	\$4,787	\$4,398
	Subcontracts			\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	ODC's			\$168	\$508	\$180	\$160	\$45	\$465	\$87	\$378
	Unbilled ODCs										
	Unbilled Subs										
	Avg. Labor Rate			\$83.71	\$107.51	\$80.79	\$110.37	\$87.80	\$84.35	\$91.96	\$111.33
	ACWP			\$9,041	\$6,571	\$4,196	\$3,162	\$15,665	\$17,672	\$4,873	\$4,776
Cumulative	Hours			106	162	212	239	417	621	673	13
	Burdened labor			\$8,873	\$14,937	\$18,952	\$21,954	\$37,573	\$54,781	\$59,56"	\$63,965
	Subcontracts			\$0	\$0	\$0	\$0	50	\$0	\$0	50
	ODC's			\$168	\$6*6	\$856	\$1,016	\$1,061	\$1,526	\$1,613	\$1,991
	% Complete			3° o	-e, o	10%	11%	13° o	20° •	2200	23%
	Unbill∉d ODCs			\$0	\$0	\$0	50	\$0	\$0	\$0	SO
	Unbilled Subs			\$0	50	\$0	\$0	\$0	\$0	\$0	\$0
	ACN'P			\$9,041	\$15,612	\$19,808	\$22,970	\$38,635	\$56,307	\$61,180	\$65,956
	BC///P			\$4,443	\$8,885	\$13,328	\$15,105	\$17,770	\$26,655	\$29,321	\$31,098
	ETC			5130,179	\$125,737	\$121,294	\$119,517	\$116,852	\$10~,96~	\$105,301	\$103,524
	Percent Spent			70.0	12%	15%	17%	29%	12%	45%	.19%,

Jun/00	Jul/00	Aug/00	Sep/00	Oct/00	Nov/00	Dec/00	Jan/01	Feb/01	Mar/01	Apr/01	May/01
63	63	63	63	63	63	63	63	63	63	63	63
\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612	\$5,612
\$334	\$334	\$334	\$334	\$334	\$334	\$334	5334	\$334	\$334	\$334	\$325
\$785	\$785	\$785	\$785	\$785	\$785	\$785	\$785	\$785	\$785	\$785	S=88
89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09	89.09
\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,731	\$6,725
567	630	693	756	819	882	945	1,008	1,071	1,134	1,197	1,260
\$50,512	\$56,124	\$61,736	\$67,349	\$72,961	\$78,574	\$84,186	\$89,798	\$95,411	\$101,023	\$106,636	\$112,24
\$3,006	\$3,340	\$3,674	\$4,008	\$4,342	\$4,6-6	\$5,010	\$5,344	\$5,678	\$6,012	\$6,346	\$6,6~1
\$7,065	\$7,850	\$8,635	\$9,420	\$10,205	\$10,990	\$11,775	\$12,560	\$13,345	\$14,130	\$14,915	\$15,703
\$60,583	\$67,314	\$74,045	\$80,777	\$87,508	\$94,240	\$100,971	\$107,702	\$114,434	\$121,165	\$127,897	\$134,62
48	54	40	43	74	69	63	77	77	61	20	
\$5,468	\$5,313	\$3,868	\$4,435	\$7,729	\$6,982	\$5,323	\$6,643	\$5,550	\$5,535	\$1,223	
50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
211	\$129	\$1,240	2441	\$857	\$103	2-1	\$83	\$284	\$80	\$1,799	
\$113.91	\$97.93	\$97.93	\$102.44	\$104.10	\$100.82	\$84,49	\$86.56	\$"2.08	\$90.07	\$62.74	
\$5,481	\$5,442	\$5,109	\$4,876	\$8,587	5-'081	\$5,39	\$6,726	\$5,834	\$5,615	\$3,023	
~61	815	855	898	9-2	1,041	1,104	1,181	1,258	1.320	1.339	
\$69,433	2-1,-12	\$78,614	\$83,049	\$90.779	\$97,760	\$103,083	\$109,727	\$115,277	\$120,812	\$122,035	
S0	\$0	\$0	\$0	50	\$0	\$0	\$0	SO	\$0	\$0	
\$2,005	\$2,134	\$3,374	\$3,815	\$4,672	\$4,775	\$1,849	\$4,931	\$5,215	\$5,296	\$7,095	
24%	24%	26%	28%	30° o	30%	3100	-10° a	63°°	-0° 6	-3° o	
\$0	50	\$0	\$0	\$0	S0	\$0	\$0	\$0	50	\$0	
50	\$0	\$0	\$0	\$0	\$0	\$0	\$0	SO	50	\$0	
\$11,437	\$76.879	\$81,988	\$86,864	\$95,451	\$102,535	\$107,932	\$114,658	\$120,492	\$126,108	\$129,130	
\$32,875	\$32,875	\$35,540	\$37,317	\$39,983	\$39,983	\$41,760	\$53,310	\$85,081	\$94,101	\$98,543	
5101,747	\$101,747	\$99,082	\$97,305	594.639	\$94,639	\$92,862	\$81,312	\$49,541	\$40,521	\$36,079	
53° o	57%	61%	65%	~100	~6%	80°°	85%	90%	94%	96%	

	BCWS	BCWP	ACWP	S/.	cv	BAC	ETC	EAC	VAC
Hours	1197	922	1339						
Burdened Labor	\$106,636	\$82,166	\$122,035						
Subcontracts	\$6,346	\$4,883	\$0						
ODCs	\$14,915	\$11,495	\$7,095						
Unbilled ODCs			\$0						
Unbilled Subs			\$0						
Total	\$127,897	\$98,543	\$129,130	-\$29,353	-\$30,587	\$134,622	\$36,079	\$165,209	-\$30,587

	63	1,197		
Budgeted Hours	20	1,339		
Actual Hours	77	1,181		
	\$89	189		
Budgeted Avg. Rate	\$62.74	\$91.14		
Actual Avg. Rate	\$86.56	\$92.91		

	4/27/0	1				
		Percent Co	ntribution	Percent Corr	plete	
WBS Number	Task Name	Level 1	Level 2	Level 2	Level 1	Total
1	Fieldwork	~2°°				95.110%
1.1	Site Visit and Records Review		3%	100° o		į
1.2	Geophysical Test Plot		3° o	100°6		
1.3	OE Charaterization EOD Range (SEAD-57)		1200	85%		
1.1	OE Charaterization OD Area (SEAD-45)		12%	9500		
1.5	OE Charaterization Demo. Area (SEAD-)		11%	90° o		
1.6	OE Charaterization Burial Area (SEAD-)		200	100° o		
1 ^	OE Charaterization Grenade Range (SEAD-)		8° o	100%		
1.8	OE Charaterization Small Arms 3.5"Rocket Range (SEAD-46)		1100	90°•		
19	OE Charaterization EOD Area #3(SEAD-)		10.0	90°•		1
1.1	OE Charaterization EOD Area #2 (SEAD-)		-1º o	100%		
1.11	OE Charaterization Igloo Area (SEAD-53)		32%	100° o		
2	Workplan and Report Preparation	20° o				-3°
2.1	EE CA Workplan		1400	100° o		
2.2	Data Consoledation for Liquid Sotrage Area (SEAD-43)		12%	100%		
2.3	Data Consolodation for QA Test Range (SEAD-44a)		12%	0°°		
2.4	Institutional Analysis		1200	80%		
2.5	Risk Evaluation		22%	8000		
2 0	Prepare EE CA Report		2500	80%		
2 7	Prepare Action Memo		300	0°0		
3	Project Management	X° ₀				73 200°
3.1	Community Relations Support		3.10 0	60° o		
3.2	Meetings and Project Management		06°°	80%		
	· · · · · · · · · · · · · · · · · · ·		Total	Physical Percent (omplete =	89%

| Direct | Labor Cost | Sub | Unbilled | Unb

Monthly Report

1.8	OE Char small arms 3.5 rekt mg (SEAD-46)
1.9	OE Char EOD area =3
1 10	OE Char EOD area =2
1.11	OE Char Igloo area (SEAD-53)
2 1	EE CA Work Plan
2 2	Data consol for bq prop stor area (SEAD-43)
2.3	Data consol QA test mg (SEAD-44A)
2.4	Institutional analysis
2.5	Risk Evaluation
2 n	Prepare EE CA Report
2 -	Prepare Action Memo
3.1	Community Relations support
3.2	Meetings and project management

OEMGAPR2 xls Page I



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2 290 BROADWAY NEW YORK, NY 10007-1866 Fax to:
Randy
Kevin
Mike D.
Sbanne
CF: Dm/Janet

DEC 2 3 1996

EXPRESS MAIL

Stephen M. Absolom BRAC Environmental Coordinator Directorate of Engineering and Housing Seneca Army Depot Activity (SEDA) Romulus, New York 14541-5001

Re: Draft Project Scoping Plan for Performing a CERCLA Remedial Investigation/Feasibility Study (RI/FS) at the Ammunition Breakdown Area (SEAD-52), and the Oil Discharge Area Adjacent to Building 609 (DEAD-60)

Dear Mr. Absolom:

This is regarding the above referenced document prepared by Parsons Engineering Science, Inc. (Parsons ES) for SEDA through the U.S. Army Corps of Engineers New York District and Huntsville Division. EPA comments are summarized below.

Page 3-14, P4: Toluene is not normally considered a laboratory contaminant as stated in the text. This text should be modified accordingly.

Page 3-72, Section 3.4: NYSDEC TAGM 4046 should be added to a list of TBCs for the site.

Page 4-7, Section 4.2.3.1: The second paragraph states that the groundwater flow direction was determined to be to the north-northwest. However, in Section 4.3.4.2 (page 4-20), the groundwater flow direction is described as being to the west. Please clarify.

Page 4-8, Section 4.2.4: Although the Ecological Investigation described in these sections is consistent with the NYSDEC Fish and Wildlife Impact Analysis for Inactive Waste Sites (1994), no mention is made of USEPA guidance regarding Ecological Risk Assessment. USEPA guidance should be considered in the investigation and risk assessment portions of the project.

Figure 4-6: The area for the micro-well investigation should be shifted to the west to include more of the area downgradient of the site.

Page 4-20, Section 4.3.4.2: "...TAGM values ..." do not apply to groundwater samples. The text should be corrected to state that NYS Class GA Standards and Federal MCLs were exceeded.

Figure 6-1: The installation of the monitoring wells should be postponed until the results of the micro-well groundwater analyses are available for review.

Figure 6-2: It is unclear why there are two FS Reports shown on the schedule at two different times.

Appendix C: Contrary to what is stated in the Generic RI/FS Work Plan, the SEAD-specific scoping plan does not contain the contract laboratory's Quality Assurance Project Plan (QAPP). This error should be corrected.

Biological Technical Assistance Group

Proposed surface soil samples will be collected from the top 2". Although this is appropriate for human health concerns, this may under- or over-estimate actual contaminant levels which ecological receptors are exposed to. For ecological purposes, the BTAG recommends that soil sampling be conducted in the top 12". The approved Reuse Plan for SEDA includes these SEADs in the Conservation/Recreation Area. To ensure that the appropriate information is collected for both the human health and ecological risk assessments, samples should be collected and analyzed from 0-2 inches and from 0-12 inches. Further, soil analysis results are compared to NYSDEC TAGM values which do not address ecological concerns. Soil COCs for ecological receptors should be screened against site reference values. Surface soil samples previously obtained at SEAD - 52 did not include locations around building 610, which was used to store ammunition powder. Further, soil samples were only analyzed for explosive contaminants. Therefore, all locations previously sampled along the east side of Brady Road (as well as the perimeter of building 610) should be re-sampled and undergo a full TAL inorganic and TCL organic analysis. Proposed surface soil analyses should also include TAL and TCL analyses in addition to analyses for explosive compounds. At SEAD-60, the small fuel spill area which contains high soil TPHC concentrations (e.g. greater than 10,000 ppm) should be further delineated, in order to address it as a source area.

Table 3-6 contains sediment analyses results for SEAD-60. NYSDEC 1994 sediment criteria should be referenced instead of NYSDEC 1989 and 1969 criteria for phthalates. Screening criteria in the NYSDEC document are provided in ppm (μg/g), while this table is in ppb (μg/kg). It appears that some of the units may have not been appropriately adjusted. TOC data should be taken into account when comparing data to SVOC, pesticides and PCB screening criteria. No screening criteria were provided for the majority of the SVOCs/PAHs. Thus, we recommend that freshwater sediments be screened against the lowest effect levels (LELs) and severe effect levels (SELs) taken from "Guidelines for the Protection and Management of Aquatic Sediment Quality in Ontario" (Persaud, et. al., 1993). Proposed sediment sampling should indicate that the depth of the samples will be from 0-6". Further, samples obtained from the drainage ditch should represent depositional or sedimentation areas

Surface water analyses results for SEAD-60 are contained in Tables. Screening criteria should be provided for all metals. Some metals (i.e. cadmium, lead, mercury) are missing from this table. Surface water samples should undergo a complete TAL inorganic and TCL organic analysis, and all data should be reported.

Potential exposure pathways and receptors for both SEADs (pages 3-65 - 3-68), should include aquatic biota. Likewise, Figure 3-7 "Exposure Pathway Summary for SEAD-60," should include aquatic receptors for the surface water and sediment pathway.

In the discussion of the pathway analysis under the section entitled, "Contaminant-Specific Impact Analysis," it is stated that, "if no significant resources or potential pathways are present...the impact...will be considered minimal" (4-10 & 4-25). The definition of "significant" resources should be provided. The discussion in the NYSDEC "Fish and Wildlife Impact Analysis" document which is referenced for this section, mentions that, "if no resources...are present, impact to resources can be considered minimal" (page 5). "Significant" resources are not referenced in this document.

In Section 3.4, "Preliminary Identification of Applicable or Relevant And Appropriate Requirements (ARARs)," the Fish and Wildlife Coordination Act (16 USC 661) which requires the protection of fish and wildlife and their habitat, should be included under federal sources of location specific ARARs.

If you have any questions, you may call me at (212)637-4322.

Sincerely yours,

Carla M. Struble, P.E.

Federal Facilities Section

cc: K. Gupta, NYSDEC

R. Battaglia, USACE-NY

K. Healy, USACE-HD

M. Duchesneau, Parsons ES

Sites: SEAD-52, 60

Date: 2 November 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 1 Dec 99 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.

Sites: SEAD-52, 60

Date: 1 May 2000

Project Manager: Janet Fallo

Project Status/FFA Deadlines

 Draft RI got a 6 month extension, now due 29 Aug 00 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA performed a removal at SEAD-60 according to the intent of the spill program at the installation.

Project Funding

- FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.

July



Sites: SEAD-52, 60

Date: 5 June 2000

Project Manager: Janet Fallo

Project Status/FFA Deadlines

 Draft RI got a 6 month extension, now due 29 Aug 00 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA performed a removal at SEAD-60 according to the intent of the spill program at the installation.

- FY99 RI was formerly planned for \$1,000K for SEAD-52.
- SEAD-60 was done as a spill removal by the installation.

Sites: SEAD-52, 60

Date: 3 February 2000

Project Manager: Janet Fallo

Project Status/FFA Deadlines

· Draft RI due 29 Feb 00 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI was formerly planned for \$1,000K for SEAD-52.
- SEAD-60 was done as a spill removal by the installation.



Sites: SEAD-52, 60

Date: 10 January 2000

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 30 Jan 00 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.



Gull

Project Name: Building 612 Complex

Sites: SEAD-52, 60

Date: 5 October 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

· Draft RI due 1 Nov 99 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.

Sites: SEAD-52, 60

Date: 2 December 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 31 Dec 99 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

Project Funding

- FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.

5 EAD SZ

Sites: SEAD-52, 60

Date: 7 September 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 2 Oct 99 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.

Sites: SEAD-52, 60

Date: 29 May 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

· Draft RI due 4 July 99 according to FFA schedule.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI was formerly planned for \$1,000K for SEAD-52.
- · SEAD-60 was done as a spill removal by the installation.



Sites: SEAD-52, 60

Date: 29 April 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 5 May 99 according to FFA schedule.

· RI/FS was planned FY99.

Current and Future Issues

 Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.

Sug

• SEAD-52 is being closed out in a completion report for the prison parcel.

 SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

Project Funding

FY99 RI planned for \$1,000K for SEAD-52.

· SEAD-60 is being done as a spill removal by the installation.



Sites: SEAD-52, 60

Date: 2 April 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 5 May 99 according to FFA schedule.

· RI/FS was planned FY99.

Current and Future Issues

- Letter sent to regulators regarding dividing up the two sites due to Peer Review recommendation.
- · SEAD-52 is being closed out in a completion report for the prison parcel.
- SEDA is performing a removal at SEAD-60 according to the intent of the spill program at the installation.

- · FY99 RI planned for \$1,000K for SEAD-52.
- · SEAD-60 is being done as a spill removal by the installation.

Ammunition Breakdown Area SEAD-52/60

Background

- SEAD-52 is a complex of buildings (608, 610, 611, 612) where explosive compounds were separated from projectiles
- · The buildings have been used since the 1940's and are currently inactive
- SEAD-60 is a fuel spill area adjacent to Building 609, which is a boiler house for Building 612
- Combined with SEAD-52 for further study

Previous Investigation

- · SEAD-52
 - Limited sampling was performed in 1993 as part of the SWMU Classification Report
 - Further investigation was recommended due to the presence of explosive compounds
- · SEAD-60
 - · Classified as Low Priority in SWMU Classification Report
 - Expanded Site Inspection (ESI) fieldwork performed 1994, Draft Final Report April 1996

Contaminants of concern

- Explosives (Nitroaromatics)
- · Semi-volatiles (PAHs)
- · PCBs
- Metals

Site Status

- In the process of developing Scoping Plan for Performing RI/FS to identify data gaps and outline additional work to be conducted, Draft Jan 1996
- · Remedial Investigation planned in FY99 with a phased approach

Sites: SEAD-52, 60

Date: 3 March 1999

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 6 Mar 99 according to FFA schedule.

· RI/FS planned FY99.

Current and Future Issues

- · Peer Review team recommends dividing up the two sites.
 - · SEAD-52 needs an RI/FS performed
 - · SEAD-60 needs a Removal for the oil spill
- · Letter sent to regulators regarding dividing up the two sites.
- SEDA will perform removal at SEAD-60 according to the intent of the spill program at the installation.

Project Funding

· FY99 RI planned for \$1,000K for SEAD-52.

Sites: SEAD-52, 60

Date: 22 December 1998

Project Manager: Janet Fallo

Project Status/FFA Deadlines

Draft RI due 6 Mar 99 according to FFA schedule.

· RI/FS planned FY99.

Current and Future Issues

· Peer Review team recommends dividing up the two sites.

- SEAD-52 needs an RI/FS performed
- · SEAD-60 needs a Removal for the oil spill

· Letter sent to regulators regarding dividing up the two sites.

Project Funding

 FY99 RI planned for \$1,000K, waiting for cost estimate from Huntsville for dividing up the sites.

File 62 60