

RAVENNA ARSENAL, INC. 8451 STATE ROUTE 5, RAVENNA, OHIO 44266-9297 TELEPHONE: (216) 358-7111 • FAX: (216) 297-3216

September 3, 1993

Contracting Officer's Representative Ravenna Army Ammunition Plant

THRU:

TO:

State Fire Marshall - BUSTR Permit Application Section ATTN: Bev Spears Post Office Box 687 Reynoldsburg, Ohio 43068-0687

Ravenna, Ohio 44266-9297

Subject: Permit Application to Remove One Underground Storage Tank

Dear Ms. Spears:

8451 State Route 5

Attached is a permit application and fee for the removal of one registered underground storage tank at Ravenna Army Ammunition Plant. This is the last remaining registered underground tank at the Ravenna Army Ammunition Plant. The tank to be removed is as follows:

One 285 gallon steel tank, of unknown dimensions, used for storing gasoline for use in an emergency generator at Post #1.

Once removed, the tank will be rendered unreusable, cleaned, marked as scrap and sold as scrap by the tank removal contractor.

Please contact Susan M^cCauslin, Ravenna Arsenal, Inc., Environmental Engineer, at (216) 297-3220 if you have any questions or need further information. The Government point of contact is Robert J. Kasper, Commander's Representative, (216) 297-3124.

Sincerely,

H.R. Corper

H.R. Cooper Plant Engineer

:bp/UST2.SM

N. Wulff c:

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T. Chanda?

STATE OF OHIO DEPARTMENT OF COMMERCE - DIVISION OF STATE FIRE MARSHAL BUREAU OF UNDERGROUND STORAGE TANK REGULATIONS 8895 EAST MAIN STREET, P.O. BOX 687 REYNOLDSBURG, OHIO 43068-0687 APPLICATION FOR UNDERGROUND STORAGE TANK PERMIT

I. OWNERSHIP OF TANKS	OWNER NO:		II. LOCATION OF TANKS	FACILITY N	0.
OWNER/OPERATOR NAME U.S. Army	· · ·		FACILITY NAME Ravenna Army Ammu	nition Plant	
ADDRESS 8451 State Route	5	•	ADDRESS 8451 State Route	5	······
CITY	STATE	ZIP CODE	CITY	STATE	ZIP CODE
Ravenna	ОН	44266	Ravenna	ОН	44266
ATTN: (CONTACT PERSON) Robert J. Kasper	AREA CODE-PHON		AREA CODE-PHONE		YTA
III. CONTRACTOR	(216) 297-	5124	(216) 297-3124 IV. LOCAL FIRE DEPARTMENT	Port	age
CONTRACTOR'S NAME		<u> </u>	FIRE DEPARTMENT NAME		•=,
Ravenna Arsenal, In	nc.		Ravenna Arsenal,	Inc	
CONTACT PERSON	AREA CODE-PHON	E	ADDRESS		
Susan McCauslin	(216) 297-3		8451 State Route	5	
ADDRESS 8451 State Route 5			CITY Ravenna	STATE OH	ZIP CODE 44266
CITY	STATE	ZIP CODE	30-DAY NOTIFICATION LETTER		
Ravenna	Ohio	44266	DATE: <u>September 3</u> ,	1993	OF TANK TO BUST
V. FEE CALCULATION (NOTE: PERF	IT EXPIRES SIX (6) HONTHS FROM	DATE OF ISSUE. FEE IS NON-	REFUNDABLE)	
TANK INSTALLATION (INCLUDES	PIPING)				
TANK REMOVAL OR ABANDONMENT (THESE INCLUDE PIPING)	(CIRCLE_ONE)	NO. OF TAN 1 NO. OF TAN		=	\$100.00
TANK UPGRADE				_	· ·
TANK REPLACEMENT		NO. OF TAN	KS X \$75.00 PER TANK		
TANK REPAIR		NO. OF TAN	KS X \$175.00 PER TANK		
		NO. OF TAN	KS X \$50.00 PER TANK		
PIPING INSTALLATION ONLY			X \$25.00 PER FACILIT	ſΥ =	
PIPING REMOVAL ONLY OR ABAN	DONMENT ONLY (CIRC	LE ONE)	X \$100.00 PER FACILI	ITY ≕	
PIPING UPGRADE OR REPAIR (C	IRCLE ONE)		X \$25.00 PER FACILI	ΓY =	
PIPING REPLACEMENT			X \$100.00 PER FACILI	(TY =	
LEAK DETECTION UPGRADE			X \$25.00 PER FACILII	ΓY =	
CHANGE IN SERVICE OR TEMPORA	ARY CLOSURE (CIRCL	E ONE)	X \$100.00 PER SYSTEM	1 =	
\sim	\sim	$\langle \rangle$		TOTAL FEE:	\$100.00
SIGNATURE OF APPLICANT:	Thnalu				
		BUREAU USE ONL	Y		
AMOUNT PAID:)	CHECK NO:		_FEE NO:	
SUPERVISOR/INSPECTOR:		PERMIT NO):	_DATE ISSUED:	···
DM 5209 (10/92)		INCIDENT	NUMBER :	REAU USE ONLY)	



DEPARTMENT OF THE ARMY HEADQUARTERS, U.S. ARMY ARMAMENT, MUNITIONS AND CHEMICAL COMMAND ROCK ISLAND, ILLINOIS 61299-6000



REPLY TO ATTENTION OF September 1, 1993

GOCO Branch/Team A

Ravenna Arsenal, Inc.

General Manager Ravenna Arsenal, Inc. FWD FOR Cyinformation Compliance is Opplicable Hepty NLT

8451 State Route 5 Ravenna, OH 44266-9297

Vice President and General Manager

Dear Mr. Wulff,

Mr. Norm Wulff

Reference Layaway Scope of Work (SOW) for Project 5938000-6, Removal of Underground Storage Tank for Ravenna Army Ammunition Plant (RVAAP) (enclosure).

Request your company review and accept the enclosed SOW and provide a cost estimate for this effort.

Request the estimate be provided as soon as possible to enable physical accomplishment of the work not later than September 30, 1993. Plese provide the estimate to this office with a copy furnished to AMSMC-PBS-L (R).

The POCs are Messrs. Gumpert and Nabb, AMSMC-PBS-L, DSN 793-1389 and 793-0084, respectively, and Ms. Wise, AMSMC-PAI-G/TEAM A, DSN 793-3764.

omas & Botton

Enclosure

THOMAS A. BOLTON Contracting Officer

CF: Commander's Representative Ravenna Army Ammunition Plant

> RECEIVED SEP 2 1993 ENGINEERING

Matsa Cooper Jenpires

LAYAWAY SCOPE OF WORK PROJECT 5938000-6 REMOVAL OF UNDERGROUND STORAGE TANK RAVENNA ARMY AMMUNITION PLANT (AAP)

1. <u>SCOPE:</u>

1.1. The purpose of this scope of work (SOW) is to provide specifications for the transition of Ravenna Army Ammunition Plant to a "modified caretaker" status. This project effort consists of proposed actions to minimize annual maintenance costs since the mobilization mission to load, assemble and pack munitions has been removed.

1.2. The project effort consists of: cleaning; decontamination; piping removal/disposal; and underground storage tank (UST) removal.

1.3. The contractor shall provide all necessary labor, supplies, utilities, supervision, and other services necessary to perform tasks required in this SOW. Security will be maintained according to the approved plant security plan.

1.4. The cost proposal shall break out costs relative to each discrete effort identified in paragraphs 8.1., and 8.2. Inhouse efforts shall identify labor hours and materials required for each discrete effort. If various labor disciplines are required for the effort, they shall be identified by labor category or craft identification. Effort that is subcontracted using an Invitation For Bid (IFB) need not have direct-hours broken out but shall be supported by either three actual subcontractor quotes, the smallest of which shall be the funded level of this project effort, or a quote from a subcontractor that is performing similar work on the plant.

2.0. <u>APPLICABLE DOCUMENTS</u>: Work shall be performed IAW the following document(s):

AMC-P 235-1	Maintenance and Layaway of Government-owned, Contractor-operated Facilities						
40 CFR 280 & 40 CFR 281	Federal Register, Volume 53, No. 185						

Tailoring, to identify specific requirements, is shown at encl 1. In case of any conflict between reference documents and provisions contained in this SOW, the SOW will take precedence. Regardless of precedence the contractor shall ensure that there are no materials used during this project that contain any Ozone Depleting Chemicals (ODCs) listed at encl 3.

3. <u>REQUIREMENTS</u>:

3.1. Tasks are to be accomplished in accordance with (IAW) provisions contained in paragraphs 4 through 11 of this SOW.

3.2. <u>PERFORMANCE PERIOD:</u> All tasks will be completed by 30 Sep 93. Financial closeout will take place as soon as possible after final acceptance.

4. SAFETY AND ENVIRONMENTAL - GENERAL REQUIREMENTS:

4.1. The contractor is responsible for meeting all federal, state, and local safety and environmental regulations, including, but not limited to Occupational Safety and Health Act (OSHA), Environmental Protection Agency (EPA), state, local, and Armament, Munitions, and Chemical Command (AMCCOM) regulations.

4.2. All hazardous wastes, acid, and contaminated material generated by the execution of this project will be disposed of IAW all applicable federal, state, and local laws and regulations. All transport and decontamination will be performed IAW all applicable federal, state, interstate and local laws and regulations.

4.3. In case of any conflict between provisions contained in this SOW and federal, state, or local laws/regulations, the most stringent of the laws or regulations will take precedence. The layaway office, AMSMC-PBS-L(R), shall be contacted in case of any conflict.

4.4. During the execution of this project, a need for additional safety and environmental work which was not anticipated may become apparent. Such safety and environmental efforts within or adjacent to the facilities included in this project may be accomplished as a part of this project. The AMCCOM Procuring Contracting Officer (PCO) must be contacted for approval, specific instructions, and additional funding, if required, prior to initiating work.

5. <u>DECONTAMINATION (as applicable):</u>

5.1. EXPLOSIVE AND CHEMICAL DECONTAMINATION

5.1.1. Explosive and chemical decontamination Standing Operating Procedures (SOPs) will be reviewed for applicability for the facilities in this project and additional SOPs written where required. The SOPs required to decontaminate the facilities in this project will be reviewed and approved by the Contracting Officer's Representative (COR) Staff prior to beginning any decontamination work. All explosive, acid, and chemical decontamination work required for this project shall be performed IAW these approved SOPs. SEP.01 793 08:29 AMCCOM AMSMU-PC ROCK ISL IL

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5.1.2. The contractor is responsible for obtaining all necessary environmental permits and approvals prior to performing any decontamination work.

5.1.3. Explosive or chemical decontamination to Level XXX must be accomplished immediately upon funding and prior to cleaning or beginning any other work in the area.

5.2. <u>POLYCHLORINATED BIPHENYL TESTING AND DECONTAMINATION:</u> Polychlorinated Biphenyl (PCB) decontamination or testing is not expected to be needed as part of this project. If required, qualified personnel will verify on DD 1342 or other applicable property records that none of the equipment included in this project is contaminated with PCBs. When there is reasonable doubt as to whether PCB contaminants are present or not, the operating fluids will be tested by a subcontractor certified by the state of Ohio. In the event that contamination is determined through the testing procedures, disposal shall be IAW all applicable federal, state, and local environmental regulations. If PCB contaminants are found, the PCO at Headquarters, U.S. Army Armament, Munitions and Chemical Command (HQ, AMCCOM) will be contacted for further instructions, and if necessary, the contractor will submit a request for additional funds.

5.3. ASBESTOS DECONTAMINATION:

5.3.1. Asbestos abatement SOPs will be reviewed for applicability for the facilities in this project and will be reviewed and approved by the COR Staff prior to beginning any asbestos decontamination work.

5.3.2. All insulation containing friable asbestos is to be removed from the piping and equipment included in this project. All steam piping required for fuel oil heating shall be removed and disposed of. If practicable, the asbestos removal, and piping removal may be accomplished at the same time. The asbestos removal and disposal, whether by in-house or subcontractor personnel, shall be accomplished IAW Ravenna AAP SOPs and all applicable OSHA, EPA, federal, state, and local requirements.

5.3.3. All subcontractors who perform any asbestos removal work on this project are required to be certified to perform asbestos removal work in the state of Ohio. The subcontractor must present evidence of this certification to <u>Ravenna Arsenal Inc.</u> and the Ravenna AAP COR Staff prior to beginning work.

5.3.4. Air tests and environmental monitoring will be performed as required by OSHA and EPA regulations.

6. <u>DISCONNECTION AND DISASSEMBLY</u> (for only those items considered salvageable):

6.1. Disconnection: Included in this project is the requirement for the contractor to perform utility and process line disconnection. Electrical disconnection will be at the junction box, panel, or buss duct. The disconnected electrical leads, wires or conduit will individually identify (tagged or matchmarked) the positive (with service or voltage required, and amps drawn), negative, neutral, etc., posts. In all cases, the cutting of electrical lines between equipment and junction boxes will not be allowed. The electrical work performed by this project shall conform to applicable National Electrical Code (NEC) standards, specifications and procedures. Mechanical disconnection will be at appropriate junctions or distribution points (i.e. flanges) as to minimize protruding process system appendages with no purpose. In all cases, process line disconnection will be matchmarked at both disconnect points and flanged at open ends. All disconnection and disassembly shall be performed after decontamination procedures have been accomplished.

6.2. Disassembly: The disassembly of individual equipment items will be minimized to the extent necessary for adequate removal and safe transportation. If disassembly of an equipment item is required, decontamination shall be performed prior to this action, and all points of disassembly matchmarked for ease of reassembly.

7. DETAILED SPECIFICATIONS:

7.1. Remove and dispose of one underground storage tank (identified at encl 2): The storage tank and its process line shall be cleaned, sludge and remaining product (gasoline) removed and disposed of. After removal, the tank shall be disposed of.

7.2 As applicable, all salvageable gasoline will be transferred to active lines or installations or otherwise removed IAW paragraph 3-8.p.(1) of AMC-P 235-1. The UST and distribution piping will be emptied, purged and cleaned of all product. Any residual oil, cleaning rags and solvent used for cleaning will be disposed of IAW EPA, state, and local regulations. A Preliminary Assessment Screening (PAS) statement of findings relative to the tank removal and a DD Form 337 are required to be submitted and approved prior to commencement of excavation. The tank and disposed of IAW federal (40 CFR Part 280 and 281), state, and local EPA regulations. For the UST, after tank removal, the excavated holes will be filled with compacted dirt. The area will be seeded or paved as appropriate to match the surrounding area. SEP.01 M93 08:34 AMOLOUM AMBING-FG ROCK ISL IL

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8. <u>CLEANING AND PRESERVATION: GENERAL SPECIFICATIONS:</u> Cleaning, drying, and equipment painting is not required under this effort.

9. MISCELLANEOUS:

9.1. Electrical services for those facilities being transferred from an active state to modified caretaker will not be maintained. For the equipment being inactivated as part of this project, the power source will be locked out from the production equipment. Fuzes will be removed, bagged and attached to the switchbox.

9.2. Accessories and fixtures to the basic piece of equipment shall be properly identified with the parent machine. Items of this type which are of an appropriate size and shape to permit shelf storage, will be stored on substantial shelves in lieu of being boxed or skidded, providing shelf storage area is protected from access and is adequate to provide dry, clean storage.

10. DOCUMENTATION REQUIREMENT:

10.1. Included in this SOW is the requirement to retain, at a minimum, all of the applicable, existing (updated) documents essential to the timely and efficient disposition of the facilities covered by this SOW. The documents include, but are not limited to, Plant, Building and Utility Drawings; Equipment Drawings; Line Layouts; Equipment and Facility Maintenance Records; and SOPs. The documents are considered essential to the operations and must be on hand at the plant. Care must be taken to provide adequate protection for these documents, not only from the elements, but also from possible destruction by fire or flood.

10.2. During execution of this SOW, Ravenna AAP's Maintenance Plan, Appendix B must be updated to include changes in the status of the facilities. It also must include a description of standby maintenance, provision for inspection at stated intervals, and provision for records of standby maintenance and inspection.

10.3. During execution of the SOW, Ravenna AAP's as built drawings are to be revised/deleted due to tasks accomplished in this SOW.

11. INSPECTION/FINAL ACCEPTANCE:

11.1. Contractor performance on this SOW will be monitored by the Ravenna AAP COR Staff. Unless otherwise specified, the contractor is responsible for the performance of all inspection and test requirements. 11.2. Inspections and Tests. Each piece of equipment/facility or task will be examined to assure compliance with the requirements set forth in this SOW and to assure that the defects noted in the initial visual, operational, and analytical inspections and test have been corrected. These quality conformance examinations will be completed on each item prior to being offered for acceptance; failure to pass any examination or test will be cause for rejection.

11.3. Upon project completion, the COR Staff will inspect facilities and, if acceptable, notify HQ, AMCCOM in writing that facilities are ready for final acceptance inspection.

11.4. Final acceptance inspection will be performed by a representative of HQ, AMCCOM unless this is delegated, in writing, to the COR Staff.

11.5. The final acceptance of this project will take place upon receipt by the contractor of written approval from HQ, AMCCOM/PCO.

3 Encls as stated

DOCUMENT SUMMARY LIST PROJECT 5938000-6 RAVENNA AAP

DOCUMENT CATEGORY:

Category 1 - The requirements contained in the directly cited document contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract or contract modification, all requirements contained in reference and subsequently referenced documents are contractually for guidance and information only.

Category 2 - The requirements contained in the directly cited document and the reference documents identified in the directly cited document are contractually applicable to the extent specified. Unless otherwise specified in the solicitation, contract or contract modifications, all requirements contained in subsequently referenced documents within reference documents are contractually for guidance and information only.

Category 3 - Unless otherwise specified in the solicitation, contract or contract modifications, all requirements contained in the directly cited document and all reference and subsequently referenced documents are contractually applicable to the extent specified.

Document Number (Contract Reference Applicable Tailorin		Document Date/ Document Category			
1. AMC-P 235-1 (SOW Para 8.2.)	Maintenance and Layaway of Government owned, Contractor-operated Facilities				
2. 40 CFR 280 & 40 CFR 281 (SOW Para 8.2.)	Federal Register, Volume 53, No. 18	5 23 Sep 88 Cat 3			

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RAVENNA ARMY AMMUNITION PLANT (AAF) PROJECT 5938000-6 UNDERGROUND TANK TO BE REMOVED

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TANK NO.		LOCA	TION		DIKE		SIZE	CONTENTS	
3	;	POST	# 1	 	 N/A	:	285 ;	GASOLINE	
NCL 2									

List Of R	estricted Chlorofluorocarbons (CFC) And	Halone
<u>Names</u>	Svnonyms	Formula
CFC-11 F	reon-11, R-11, Trichlorofluoromethane	CFCL3
CFC-12 F	reon-12, R-12, Dichlorodifluoromethane	CCL2F2
CFC-113 F7	ceon-113, R-113, Trichlorotrifluoroethan	e CCL2F-CCLF2
CFC-114 R-	-114, Dichlorotetrafluoroethane	CF2CL-CCLF2
CFC-115 R-	-115, Chloropentafluorosthane	CCLF2-CF3
CFC-13	Chlorofluorccarbon-13	UNFURNISHED
CFC-111	Chlorofluorocarbon-111	UNFURNISHED
CFC-112	Chlorofluorccarbon-112	UNFURNISEED
CFC-211	Chlorofluorocarbon-211	UNFURNISEED
CFC-212	Chlorofluorocarbon-212	UNFURNISEED
CFC-213	Chlorofluorocarbon-213	UNFURNISHED
CFC-214	Chloroflucrocarbon-214	UNFURNISHED
CFC-215	Chlorofluorocarbon-215	UNFURNISHED
FC-216	Chlorofluorocarbon-216	UNFURNISHED
FC-217	Chlorofluorocarbon-217	UNFURNISHED
alon 1211	Bromochlorodifluoromethane	CF2BrCL
alon 1301	Bromotrifluoromethane	CF3Br
alon 2402	Dibromotetrafluoroethane	C2F4Br2
ethyl Chl	proform (MCF) 1,1,1 Trichloroethane	CH3CCL3
	cachloride Tetrachloromethane	CCL4

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RAVENNA ARSENAL, INC. 8451 STATE ROUTE 5, RAVENNA, OHIO 44266–9297 TELEPHONE: (216) 358–7111 • FAX: (216) 297–3216

August 26, 1993

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THRU: Contracting Officer's Representative Ravenna Army Ammunition Plant 8451 State Route 5 Ravenna, Ohio 44266-9297

TO: Commander U.S. Army Armament, Munitions and Chemical Command ATTN: AMSMC-PBS-L (R) Rock Island, Illinois 61299-6000

> Subject: Cleaning and Removal of Below Ground Storage Tank #3 at Post #1 (REF: Letter dated 24 Aug 1993, Subject: SAB)

Dear Sir:

Attached for further action is the required P17 documentation for the above subject matter. Preparation and submission of this documentation has been completed in accordance with the following directive: GOCO LAP Section B dated 23 July 1992, Subject: Preparation of P17's for transitioning RVAAP into modified caretaker status.

Point of contact for the Ravenna Arsenal, Inc. is Ms. Sue M^cCauslin, DSN 346-3220.

Sincerely,

RAVENNA ARSENAL, INC.

NA. Coop

H.R. Cooper Engineering Manager

:DJ/bk/USTPOST1.P17

- cf: AMSMC-IR (Disposal) AMSMC-EH AMSMC-PAI-G/Team A AMSMC-EQ
- c: N. Wulff S. Mc^cCauslin T. Davis

D.E. Hansvey /RAR

File

David E. Kanavy Accounting Manager

J. M^cGee

D. Kanavy

D. Jendrisak

EXHIBIT P-17 (PART I) DATE: 25 AUG 1993 LAYAWAY AND/OR REDISTRIBUTION PROJECT RCS DRC-836 ----1. Project No. _____ (AMCCOM) 2. Appropriation _____ Project Execution Date FY93 Proposed з. 4. Title: Cleaning and Removal of Inactive Below Ground Storage Tank #3 at Post #1 5. Total Cost § 9,394 6. Annual Maintenance Cost N/A 7. Facility/Contractor: Ravenna Army Ammunition Plant (GOCO) Ravenna Arsenal, Inc. Item(s) Produced/Support: 8. On reactivation, is facility scheduled to produce new items? No a. If so, list item(s) N/A b. Production lines being laid away: N/A 9. 10. Estimated completion date: 30 SEP 93 To eliminate the need for yearly inspection of registered 11. Purpose: below ground tanks and to eliminate the requirement to upgrade this UST to required standards. 12. Layaway is: In place X On Site _____ Central Storage _____ State of Readiness: <u>N/A</u> 13. 14. Remarks: None 15. Production Capability: N/A 16. Mobilization Data: N/A 17. Tank #3 is a registered underground gasoline storage tank that served the emergency generator at Post #1. Collect and dispose of existing product (gasoline). 18. a. Clean tank and lines; and remove, collect and dispose of sludges, b. water, residues.

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- c. Excavate and damage or cut up tank for disposal IAW approved UST removal specifications.
- d. Assess soils in tank area for contamination, and remove and dispose of any contaminated soil.
- e. Backfill and final grade excavated area.

EXHIBIT P-17 (PART I)

19. Acquisition value of facility to be laid away with this project.

•	Tand improvements		
a.	Land improvements	Ş	N/A
b.	Building	\$	N/A
c.	DIPEC reportable production equipment	\$	N/A
d.	Non-DIPEC reportable production equipment	\$	N/A
e.	Non-production equipment	\$	N/A

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20. Replacement value of facility to be laid away with this project.

 a. Land improvements b. Building c. DIPEC reportable production equipment d. Non-DIPEC reportable production equipment e. Non-production equipment 	\$ \$ \$ \$ \$ \$,
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21. Layaway quantities.

QUANTITY

a.		IPE items (DIPEC reportable)	-0-
b.	Number of	production equipment items (NON-DIPEC)	-0
c.	Number of	non-production items	-0-

22. Detailed Cost Data: See attached M.O. cost estimate.

23. Alternate Courses of Action: None

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RAVENNA ARMY AMMUNITION PLANT 8451 STATE ROUTE 5 RAVENNA, OHIO 44266-9297

ENVIRONMENTAL DOCUMENTATION

Ravenna Arsenal, Inc.

August 25, 1993

Environmental impacts of actions to be taken under the proposed underground storage tank cleaning/removal project has been considered within an Environmental Assessment to be prepared by the Corps of Engineers, under contract to AMCCOM, as part of the transitioning of RVAAP to modified caretaker status.

p10h12V0s3T)

	POST 1		(Subcontract)	Rehab/Repair \$3,800				
TION PLANT 26-9297				Preserv 				
RAVENNA ARMY AMMUNITION PLANT Ravenna, Ohio 4426-9297	- REMOVAL OI			Clean 				
RAVENNA A Ravenna	COST ESTIMATE - REMOVAL OF TANK #3	•		Decontam 		к -	55 900	t
l, Inc.	COST			Item Nomenclature 		Instrumentation and Line Work	\$3,800 \$39 \$5,555 	ታ እር የ የ - - -
Ravenna Arsenal,		1. Equipment N/A	2. Structure	Quantity 1 EACH	3. Utilities N/A	4. Electrical	Subcontract Engineering Overhead/Fee	Total Costs

Other -----0-

RAVENNA ARSENAL INC. COST ESTIMATE FOR: CLEANING & REMOVAL	of USTs and	CLEANING of /	DATE: ASTs	12-Aug-93
REFERENCE: PARA. NEW - REMOVE PROJECT # : 5938327-4	UG GAS TANK N	AT PUST I		
	N U FY93 BUDGET	ST812 - 31-DEC-92	(NEW DISCL	OSURE)
DIRECT MISC:MATERIALS AND SERV SUBCONTRACTS	ICES		\$0 \$3,800	\$3,800
2320 GEN MTCE 2580 RDS & GRDS MTCE 22x0 UTILITY MTCE 2560 PACKAGE LINES 2100 OTHER HOURLY LABOR	0.0 0.0 0.0	AVG RATE \$0.00 \$0.00 \$0.00 \$0.00 \$0.00	LABOR \$0 \$0 \$0 \$0 \$0 \$0	\$0
TOTAL HOURLY COST 2540 ENGINEERING TOTAL SALARY COST TOTAL HOURS	2.0	\$19.50	\$39	\$39
DIRECT FRINGES: HOURLY SALARIED	\$0 \$39	RATE 75.83% 43.10%	DOLLARS \$0 \$17	\$17
TOTAL DIRECT LABOR AND	FRINGES AND	OTHER COSTS:		\$3,856
ALLOCATED OVERHEAD: MAINTENANCE TOTAL ALLOCATED OVERHEAD	UNITS 0.0	RATE \$29.581	DOLLARS \$0	\$0
TOTAL COST IN GENERAL OVERHEAD G&A OVERHEAD FEE	PUT	109.536% 12.375% 3.463%	•	\$3,856 \$4,224 \$1,000 \$314
TOTAL FUNDS ESTIMATE - WITH OV	ERHEADS			\$9,394

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RAVENNA ARSENAL INC. COST ESTIMATE FOR: CLEANING & REMOVAL PARA. NEW - REMOVE UG GAS TANK	of USTs and AT POST 1	CLEANING o	DATE: f ASTs	12-Aug-93
DETAIL OF MATERIAL AND LABOR CHARGE	S: *	******	*****	*****
MATERIAL AND SERVICES: DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION	UNITS UOM O EA O EA O EA O EA	COST/UOM \$0.00 \$0.00 \$0.00 \$0.00	TOTAL COST \$0.00 \$0.00 \$0.00 \$0.00	
SUBCONTRACTS: REMOVE GAS TANK DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION	1 EA O EA O EA O EA O EA	\$3,800.00 \$0.00 \$0.00 \$0.00 \$0.00	\$3,800.00 \$0.00 \$0.00 \$0.00 \$0.00	
LABOR - DEPT: 2320 W-031 Millwright 2320 W-034 Electrician 2320 W-104 Sheetmetal 2320 W-152 Instr Rpr 2320 W-038 Plumber 2320 W-091 Carpenter 2100 W-180 Auto Mech 2580 W-003 Mtce Laborer 2580 W-025 Trk Driver 2580 W-025 Trk Driver 2580 W-075 Hvy Eqp Oper 2200 W-033 Oper Eng-Stm 2260 W-088 Water Plt Op 2260 W-191 Util Eqp Mch 2280 W-086 Sewg Disp Op 2560 W-158 Mech Eqp Ins 2540 ENGINEERING	HOURS 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	RATE \$13.95 \$13.95 \$13.95 \$14.03 \$13.95 \$13.89 \$13.78 \$12.67 \$13.95 \$13.95 \$13.95 \$13.95 \$13.86 \$14.03 \$13.86 \$14.00 \$19.50	LABOR COST \$0.00	

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<mark>غان</mark> ۱۹۹۹ - ۱۹۹۹ - ۱۹

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