



DEPARTMENT OF THE NAVY
CRANE DIVISION
NAVAL SURFACE WARFARE CENTER
CRANE, INDIANA 47522-5000

N00164.AR.000137
NSWC CRANE
5090.3a

706

IN REPLY REFER TO:
5090
095/H1.4
15 OCT 1992

Mr. Hak Cho
Chief, Indiana Section
RCRA Permitting Branch
HRP-8J
U.S. Environmental Protection Agency
77 West Jackson
Chicago, IL 60604

Dear Mr. Cho:

This letter is to notify you that Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV) is seeking the four following modifications to its Final Resource Conservation Recovery Act (RCRA) Part B Permit:

1. A Class 1 modification is required to revise the facility's Part A. Specifically, two changes are made to Part A:
 - a. The name of the facility has changed from Naval Weapons Support Center (NWSC), as listed in the permit, to Crane Division, Naval Surface Warfare Center. The appropriate acronym for purposes of this permit and associated correspondence is NSWC Crane.
 - b. NAVSURFWARCENDIV has identified an operation that, according to 40 CFR 261.31, generates an F019 waste. The sludges from this operation have been disposed and manifested as F006 in the past. This is essentially a documentational change as it does not affect handling or disposal methods of the sludge.

These are administrative and informational changes to the general permit provisions (A.1. of 40 CFR 270.42 Appendix I). An updated Part A is included as enclosure (1).

2. In accordance with the letter of approval from the Director of the United States Environmental Protection Agency (USEPA), dated September 30, 1992, NAVSURFWARCENDIV is deleting the fifth round of groundwater sampling at the Dye Burial Grounds, Demolition Range, Old Rifle Range, and Rockeye Solid Waste Management Units. In Appendix I of 40 CFR 270.42, this modification is cited under C.2. as a Class 1 modification. The basis for this modification is as follows:

- a. The Navy believes that, depending on the specific statistical analysis chosen, four rounds of sampling are satisfactory for performing statistical analysis. For example, EPA/530-SW-89-026, Statistical Analysis of Ground-Water Monitoring Data at RCRA Facilities (April 1989), states that for the Test of Proportions and Analysis of Variance, only three observations are required.
- b. Deletion of the fifth round would reduce costs associated with monitoring over 100 wells.

3. In accordance with F.1.b. of 40 CFR 270.42 Appendix I, NAVSURFWARCENDIV is requesting a Class 2 modification to authorize usage of a newly constructed building for additional storage space of liquids that do not require climate control. Drawings and photographs of the facility are included as enclosures (2) and (3), respectively. NAVSURFWARCENDIV submits this request on the following basis:

- a. The structure meets the requirements of 40 CFR 264.175.
- b. The building is essential for maintaining adequate aisle space around drums without double-stacking of the drums.
- c. Use of the building does not increase the volume of waste managed at the facility as listed Section V of the permit.

4. NAVSURFWARCENDIV is requesting a decision from the USEPA that final cleanup has been completed on Solid Waste Management Unit 31/00 (Compressed Gas Cylinder Site). As such, in accordance with 40 CFR 270.42(d), NAVSURFWARCENDIV is requesting a Class 3 modification to remove the site from the Corrective Actions Schedule. A total of 41 compressed gas cylinders were removed during an Interim Measures Cleanup on August 4, 1990. A visual inspection of the site after the removal of the cylinders indicated there was no soil contamination present. Since potential contaminants were in a gaseous state, no contamination of surface waters, ground waters, or soil would be expected.

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Published notification of these modifications is scheduled for October 19, 1990 in the Bedford Times Mail. Public comments will be taken for 60 days thereafter, commencing on December 18, 1992. A public meeting on the proposed modification will be held at 7:00 PM on November 16, 1992 at Bedford City Hall, 1102 16th Street, Bedford, Indiana.

Enclosure (4) is the certification statement required by the facility's permit. NAVSURFWARCENDIV Crane point of contact is Mr. Thomas J. Brent, Code 09510, telephone 812-854-1132.

Sincerely,

A handwritten signature in black ink, appearing to be 'S. Howard', written over a horizontal line.

S. HOWARD
CAPT, U. S. Navy
Commander

Encl:

- (1) Revised Part A
- (2) PWO Drawing 5801; Construct Hazardous Waste Storage
- (3) Photographs of new hazardous waste storage
- (4) Certification Statement

Copy to:

USEPA (C. A. Witt-Smith)
SOUTHNAVFACENGCOM, ADRIENNE WILSON (CODE 185ND)
COMNAVSEASYSKOM (SEA 654E)
IDEM (P. Bansch)

For EPA Regional Use Only Date Received: Month _____ Day _____ Year _____	 United States Environmental Protection Agency Washington, DC 20460 <h2 style="margin: 0;">Hazardous Waste Permit Application</h2> <h3 style="margin: 0;">Part A</h3> <p style="font-size: small;">(Read the instructions before starting)</p>	For State Use Only
I. Installation's EPA ID Number (Mark 'X' in the appropriate box)		
<input type="checkbox"/> A. First Part A Submission		<input type="checkbox"/> B. Part A Amendment
C. Installation's EPA ID Number		D. Secondary ID Number (if applicable)
I N 5 1 7 0 0 2 3 4 9 8		_____
II. Name of Facility		
N A V A L S U R F A C E W A R F A R E C E N T E R		
III. Facility Location (Physical address not P.O. Box or Route Number)		
A. Street		
C R A N E D I V I S I O N		
Street (continued)		

City or Town		State ZIP Code
C R A N E		I N 4 7 5 2 2 - 5 0 0 9
County Code (if known)	County Name	
_____	M A R T I N	
B. Land Type (enter code)	C. Geographic Location (LATITUDE (degrees, minutes, & seconds) LONGITUDE (degrees, minutes, & seconds))	D. Facility Existence Date (Month Day Year)
F	3 8 5 2 3 0 8 6 5 2 3 0	0 1 2 7 1 9 4 1
IV. Facility Mailing Address		
Street or P.O. Box		
C O M M A N D E R C O D E 0 9 5 B 2 6 9 4		
City or Town		State ZIP Code
C R A N E		I N 4 7 5 2 2 - 5 0 0 9
V. Facility Contact (Person to be contacted regarding waste activities at facility)		
Name (last)		(first)
H U N S I C K E R		J A M E S
Job Title		Phone Number (area code and number)
E N V P R O T D E P T		8 1 2 - 8 5 4 - 3 1 1 4
VI. Facility Contact Address (See instructions)		
A. Contact Address Location Mailing	B. Street or P.O. Box	
_____	C O D E 0 9 5 B U I L D I N G 2 6 9 4	
City or Town		State ZIP Code
C R A N E		I N 4 7 5 2 2 - 5 0 0 9

EPA I.D. Number (enter from page 1)										Secondary ID Number (enter from page 1)									
I	N	5	1	7	0	0	2	3	4	9	8								

XI. Nature of Business (provide a brief description)

SEE ATTACHMENT (1)

XII. Process - Codes and Design Capacities

- A. PROCESS CODE** - Enter the code from the list of process codes below that best describes each process to be used at the facility. Twelve lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. If a process will be used that is not included in the list of codes below, then describe the process (including its design capacity) in the space provided in Item XIII.
- B. PROCESS DESIGN CAPACITY** - For each code entered in column A, enter the capacity of the process.
- AMOUNT** - Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process unit.
 - UNIT OF MEASURE** - For each amount entered in column B(1), enter the code from the list of unit measure codes below that describes the unit of measure used. Only the units of measure that are listed below should be used.
- C. PROCESS TOTAL NUMBER OF UNITS** - Enter the total number of units used with the corresponding process code.

PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
Disposal:			Boilers And Industrial Furnaces:		
D79	Injection Well	Gallons; Liters; Gallons Per Day; Or Liters Per Day	T80	Boiler	Gallons Or Liters
D80	Landfill	Acre-feet Or Hectare-meter	T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per
D81	Land Application	Acres Or Hectares	T82	Lime Kiln	
D82	Ocean Disposal	Gallons Per Day Or Liters Per Day	T83	Aggregate Kiln	
D83	Surface Impoundment	Gallons Or Liters	T84	Phosphate Kiln	
Storage:			T85	Coke Oven	
S01	Container (Barrel, Drum, Etc.)	Gallons Or Liters	T86	Blast Furnace	
S02	Tank	Gallons Or Liters	T87	Smelting, Melting, Or Refining Furnace	
S03	Waste Pile	Cubic Yards Or Cubic Meters	T88	Titanium Dioxide Chloride Process Oxidation Reactor	
S04	Surface Impoundment	Gallons Or Liters	T89	Methane Reforming	
Treatment:			T90	Pulping Liquor Recovery Furnace	
T01	Tank	Gallons Per Day Or Liters Per Day	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	Or Short Tons Per Day
T02	Surface Impoundment	Gallons Per Day Or Liters Per Day	T92	Halogen Acid Furnaces	
T03	Inclinator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Or Btu's Per Hour	T93	Other Industrial Furnaces Listed In 40 CFR §260.10	
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Or Short Tons Per Day	T94	Containment Building	

UNIT OF MEASURE	UNIT OF MEASURE CODE	UNIT OF MEASURE	UNIT OF MEASURE CODE
Gallons	G	Short Tons Per Hour	D
Gallons Per Hour	E	Metric Tons Per Hour	W
Gallons Per Day	U	Short Tons Per Day	N
Liters	L	Metric Tons Per Day	S
Liters Per Hour	H	Pounds Per Hour	J
Liters Per Day	V	Kilograms Per Hour	R
Cubic Yards	Y	Cubic Meters	C
Acres	B	Acres-foot	A
Hectares	Q	Hectares-meter	F
Btu's Per Hour	K		

EPA ID Number (enter from page 1)										Secondary ID Number (enter from page 1)											
I	N	5	1	7	0	0	2	3	4	9	8										

XIV. Description of Hazardous Wastes

- A. WASTE STREAM NUMBER - Enter sequential waste stream number. A waste stream may be composed of one or more waste codes.
- B. ESTIMATED ANNUAL QUANTITY OF WASTE STREAM - For each waste stream estimate the quantity of that waste that will be handled on an annual basis.
- C. UNIT OF MEASURE - For each quantity entered in column B enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	P	KILOGRAMS	K
TONS	T	METRIC TONS	M

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure taking into account the appropriate density or specific gravity of the waste.

- D. WASTE CODES - Enter the waste code for every waste in this waste stream.
- E. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste stream entered in column A select the code(s) from the list of process codes contained in item XII A, on page 3 to indicate how the waste will be stored, treated, and/or disposed of at the facility.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in column A, select the code(s) from the list of process codes contained in item XII A, on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

List all process codes that apply to this waste stream.

2. PROCESS DESCRIPTION If a code is not listed for a process that will be used, describe the process in the space provided on the form (E (2)).

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, and X-3 below): A facility will store and treat three waste streams. Waste stream 1 contains 550.10 tons of toxaphene which the facility intends to store in a tank. The facility estimates that waste stream 2 contains 2020.8 tons of hydrogen sulfide, lead, and wastewater treatment sludges generated in the production of creosote. These wastes will be held in storage containers and tanks, and then incinerated. The third waste stream (3) at the facility comprises an estimated 10.557 pounds of silver which will be stored in storage containers prior to being shipped off-site.

A. Waste Stream Number	B. Estimated Annual Quantity Of Waste	C. Unit Of Measure (enter code)	D. Waste Codes (for this waste stream)		E. Processes	
					(1) Process Codes (for this waste stream)	(2) Process Description (if a code is not entered in E(1))
X-1	550.10	T	D015		S02	
X-2	2020.8	T	U195	D008	S01	T02
			K035		S02	
X-3	10.557	P	D011		S01	

EPA ID Number (enter from page 1)										Secondary ID Number (enter from page 1)													
I	N	5	1	7	0	0	2	3	4	9	8												
XIV. Description of Hazardous Waste (continued)																							
A. Waste Stream Number		B. Federal Agency ID (1015)		C. Initial Code (1001-5001)		D. Waste Code (2001-3000)		E. Residual															
												1. Waste Description (1015-1000-1001-1001)											
D001		30		T		S01						Non-halogenated solvents spent & off-spec including mineral spirits (petroleum distillates), paint thinner & Stoddard solvent											
F003		Incl. above																					
F005		Incl. above																					
U154		Incl. above																					
U220		Incl. above																					
U002		Incl. above																					
D035		Incl. above																					
D001		4		T		S01						Waste oils (some of which are ignitable)											
D005		Incl. above																					
D007		Incl. above																					
D008		Incl. above																					
D003		5		T		S01						Ammonium Picrate/Yellow D cont. water											
K045		30		T		S01						Spent carbon from treatment of wastewater containing explosives											
K046		20		T		S01						Wastewater treatment sludges from the manufacturing, formulation & loading of lead-based initiating compounds											
U122		1		T		S01						Formaldehyde											
D001		90		T		S01						Paint waste, including sludges, thinners, strippers, primers & varnishes											
F002		Incl. above																					
F003		Incl. above																					
F005		Incl. above																					
D006		Incl. above																					
D007		Incl. above																					
D008		Incl. above																					
U080		Incl. above																					

EPA ID Number (enter from page 1)										Secondary ID Number (enter from page 1)													
I	N	5	1	7	0	0	2	3	4	9	8												
XIV Description of Hazardous Waste (continued)																							
A Waste Stream Number	B Estimated Annual Quantity (kg/yr)	C Unit or Mass (kg/yr)	D Waste Code (see 40 CFR 261.11)	E Physical		F Specific																	
				II (see 40 CFR 261.11)	III (see 40 CFR 261.11)	IV (see 40 CFR 261.11)	V (see 40 CFR 261.11)																
D001	3	T	S01					Off spec and waste plastic formulations															
F002	Incl. above																						
D003	Incl. above																						
F006	40	T	S01					Plating & Coating waste & sludges incl. caustic paint stripper solution wastes															
D002	Incl. above																						
D006	Incl. above																						
D007	Incl. above																						
D008	Incl. above																						
D010	Incl. above																						
D006	3	T	S01					Salts cont. Ammonium nitrate Ceric Ammonium Nitrate, Sodium Nitrate/sodium sulfide Sodium carbonate R&D waste															
D007	Incl. above																						
D008	Incl. above																						
F002	2	T	S01					Urethane Cont. wastes: ethyl carbonate kethylene chloride															
U238	Incl. above																						
D002	1	T	S01					Vanadium pentoxide/titanium tetrachloride mixture															
P120	Incl. above																						
F027	6	T	S01					Pentachlorophenol waste includes fuel oil rinse and 5% PCP No longer used, contains dioxin															
D037	Incl. above																						
U226	1	T	S01					Trichlorethylene															
P029	1	T	S01					Copper Cyanide															
U223	8	T	S01					Waste isocyanate liquid															
F001	Incl. above																						
P030	1	T	S01					Cyanide waste															
D008	200	T	S01					Ash from open burning															

FACILITY DESCRIPTION

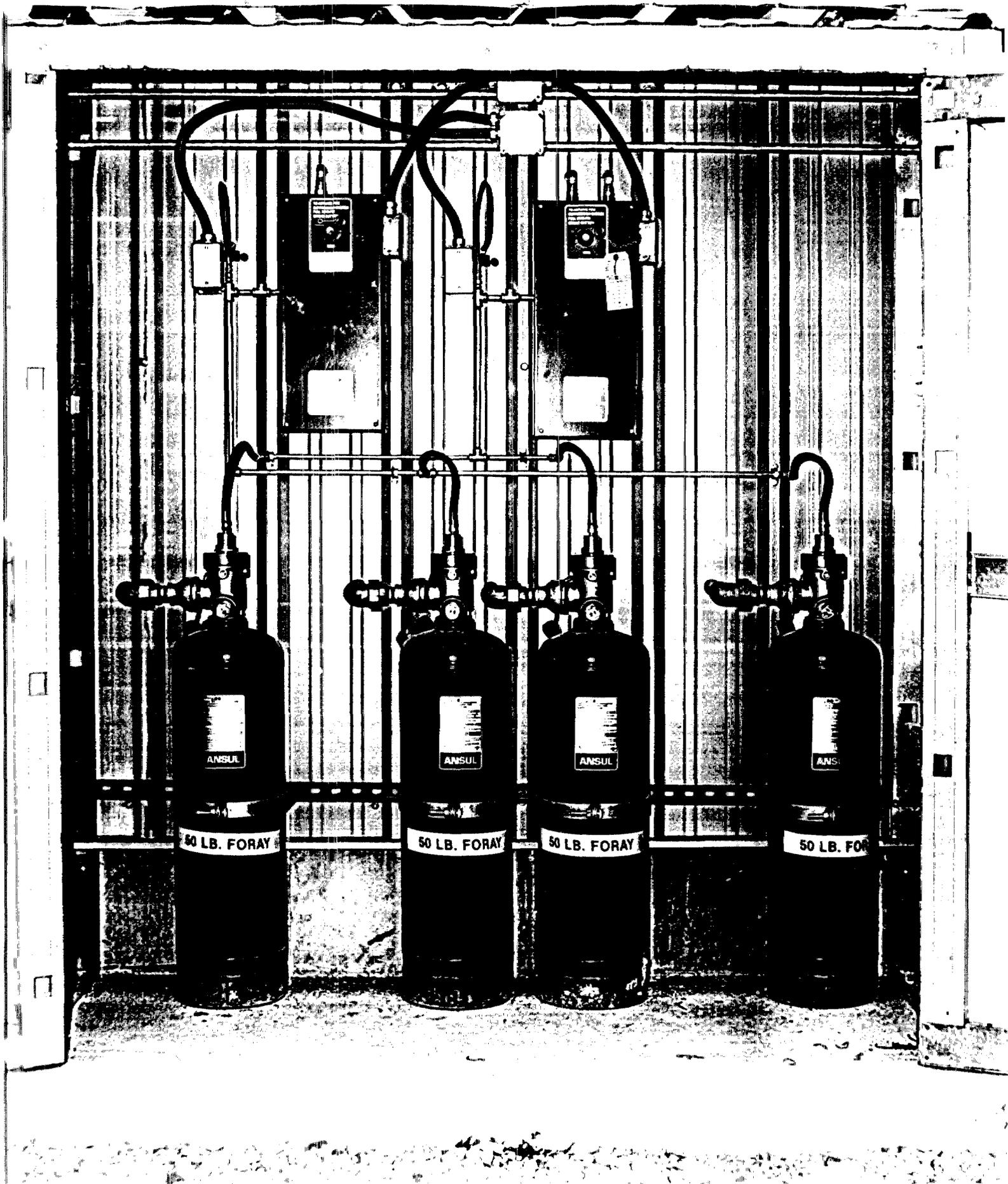
Crane Division, Naval Surface Warfare Center (NAVSURFWARCENDIV) is situated on a 62,463 acre tract of land in southwest Indiana. It is located in the northern part of Martin County and extends into neighboring Daviess, Greene, and Lawrence Counties.

Crane's mission is to "Provide quality and responsive engineering, technical and material support to the Fleet for combat subsystems, equipment and components; Microelectronic Technology, Microwave Components, Electronic Warfare, Acoustic Sensors Tests, Electrochemical Power Systems, Conventional Ammunition Engineering, Pyrotechnics, Small Arms, Electronic Module Test and Repair, Electronic Warfare, as assigned by Commander, Naval Sea Systems Command." Under the Single Service Management Program, a segment of the Center's mission is to provide support (including environmental protection) to the Crane Army Ammunition Activity (CAAA). The Army is tasked with the production and renovation of conventional ammunition and related items; the performance of manufacturing, engineering, and product quality assurance to support production; and the storage, shipment, demilitarization, and disposal of conventional ammunition and related components. Because of the nature of the Army's operations, CAAA contributes significant financial support for the environmental program through an Interservice Support Agreement.

Approximately 4,023 people are employed at Crane in eighteen departments and five tenant activities. Of these, about 800 personnel work for the Army. The Center engages these people in a variety of processes and functions to accomplish the missions of the Navy and Army. Hazardous wastes are generated during mission accomplishment. These wastes are generated and treated and/or stored at NAVSURFWARCENDIV Crane for off-site disposal.



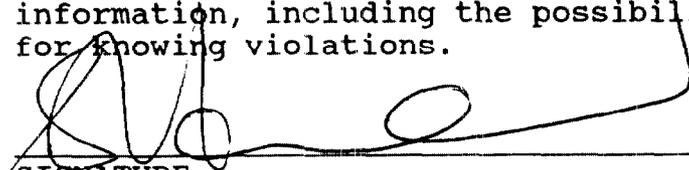
Enclosure (3)





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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.



SIGNATURE

S. HOWARD
CAPT, U. S. Navy
Commander

15 OCT 1992

TITLE

DATE

Enclosure (4)