

08.01-11/12/98-00640



DEPARTMENT OF THE NAVY

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
1510 GILBERT ST
NORFOLK, VA 23511-2699

TELEPHONE NO:

(757) 322-4815
IN REPLY REFER TO

5090
18231:CTP:swj

NOV 12 1998

U.S. Environmental Protection Agency
Region II Headquarters
Attn: Ms. Nicoletta DiForte
Chief, RCRA Caribbean Section
290 Broadway - 22nd Floor
New York, New York 10007-1866

Re: Atlantic Fleet Weapons Training Facility (AFWTF)
EPA I.D. No. PRD980536221 Subpart X Permit
Application for Open Burning/Open Detonation Unit
and "Baseline" Groundwater Investigation

Dear Ms. DiForte:

This letter is in response to the United States Environmental Protection Agency's (USEPA) letter dated August 28, 1998 addressed to LCDR D.L. Duren, Assistant Public Works Officer for Naval Station Roosevelt Roads (NSRR), Puerto Rico. A response to this letter was due on 29 October 1998. Per a telephone conversation between Mr. Tim Gordon from EPA and Mr. Wilfredo Rivera from NSRR an extension was granted until 13 November 1998. The Navy has reviewed your letter and provides the responses contained in the sections which follow:

Revised Part A Permit Application

The Navy is hereby submitting a revised Part A of the permit application for the Vieques Open Burning/Open Detonation unit. This submittal is for you to consider the approval of the Part B permit application submitted to you on 28 June 1993. As stated in your Aug 28, 1998 letter, any changes resulting from the implementation of the new Military Munitions Rule have to be reflected in an updated Part A application.

The enclosed revised Part A Permit Application reflects several changes. This version provides a specific process code for Open Burning/Open Detonation (OB/OD) treatment, previously reported as "other processes". Also, the certification and the facility contacts have been revised.

Quality Performance ... Quality Results

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Lastly, the changes from the previous Part A submittal resulting from the implementation of the new Military Munitions Rule are explained on Item XIX.

Previous Part A (from 1993) had erroneously included PRD980536189 as the ID number for AFWTF. This number corresponds to the Naval Ammunition Support Detachment (NASD) in western Vieques. As per EPA records, the ID for AFWTF is PRD980536221, and is used in the revised Part A submitted herein.

Replacement pages for the Part B Permit Application reflecting the changes resulting from the Part A revision are also enclosed. Also, some minor administrative changes are incorporated: Naval Ammunition Facility (NAF) is now called Naval Ammunition Support Detachment (NASD), and the consolidated command of the Commander Fleet Air Caribbean and Naval Forces Caribbean does no longer exist, all Vieques activities now function under Commander in Chief, U.S. Atlantic Fleet (CINCLANFLT).

Groundwater Monitoring in the Open Burning/Open Detonation (OB/OD)

The New Military Munitions Rule does not address monitoring requirement for OB/OD treatment units. There is no ground water monitoring requirement for an active treatment OB/OD facility other than requirements for releases from Solid Waste Management Units (SWMUs). The RCRA Facility Assessment (RFA) performed did not identify any SWMUs on the Live Impact Area (LIA).

Based upon available information we understand that ground water monitoring at Vieques will be unnecessary. The OB/OD activity is located in the Vieques Inner Range LIA Training Site. OB/OD treatment activity is conducted twice a year (summer/winter). Treatment activity lasts for approximately 30 minutes per instance. The training activity at the Inner Range is conducted year around. Therefore, OD activity may be considered negligible compared with normal and frequent use of the target area of the range.

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It is technically unfeasible to maintain the integrity of ground water monitoring wells in the OB/OD unit that is located in the LIA subject to ongoing target practice activity. Safety considerations that are related to drilling operations would also interfere with the installation of wells within the LIA. Even if the integrity of the wells could be maintained, it would be impossible to precisely quantify the potential contribution of the OB/OD unit as a source of contamination distinct from the normal use of the target area of the range.

Furthermore the impact to ground water in the eastern part of Vieques is very unlikely because:

- Ground water resources in the eastern tip of Vieques are of very little significance. Because of the limited area extent of the sedimentary rocks the low permeability of the volcanic rocks immediately west of the site, and due to the limited amount of rainfall that falls on this part of the island (annual average of 25(inches)).
- It is very likely that whatever ground water resources might exist have already been impacted by the saltwater wedges.

The main sources of ground water in Vieques are found in the Esperanza and Resolución aquifers. Both of these aquifers are located over 8 kilometers west of the OB/OD site and consist mainly of sedimentary deposits different from the rocks found at the site. Additionally, the narrow width of the land strip between Bahia Salinas and Bahia Salinas Sur practically serves to hydraulically isolate the eastern tip from the rest of the Island.

If a ground water sampling program were to be required, it would be very difficult to establish a sampling point for background water quality. Along Laguna Anones runs a geologic contact. East of this lagoon the rock unit is an undivided marine sedimentary rock. West of this contact the rock unit is of volcanic origin. Therefore, any water sample from outside the site would come from a different geologic unit, which would certainly change the chemical characteristics of water.

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The reason not to be concerned with ground water monitoring at the OB/OD site is that the closest known aquifer is 8 Km away from the LIA. Also, ground water in the vicinity of the OB/OD site is not used for drinking water purposes. The Environmental Impact Statement (EIS) for the Inner Range points out that impact resulting from training activities on the aquatic and terrestrial environment is considered to be minor and will not affect the productivity and functioning of these systems. The level of these impacts is not expected to increase significantly in the future.

As discussed above, ground water monitoring in the Inner Range has several technical constraints. Instead of monitoring in that area, a monitoring plan could be implemented in the western boundary of the Eastern Maneuver Area. This option will focus in determining if any off-site migration takes place from Navy property.

Baseline Groundwater Monitoring for the AFWTF

The Navy will perform a "baseline" groundwater investigation at the AFWTF. It is proposed that the investigation be performed as part of the RCRA Corrective Action program requirement for which will be established in a 3008h order presently being negotiated between the Navy and EPA. Once the Order is issued, the Navy will begin preparation of a detailed work plan for investigations at the areas specified in the Order. This work plan will include provisions for performing a "baseline" groundwater investigation. Also included in the work plan will be a detailed schedule for the performance of corrective action activities (including the "baseline" groundwater investigation) at the AFWTF. The work plan will be submitted to EPA for approval.

Details of the "baseline" groundwater investigation will be included in the corrective action work plan as indicated above. While this is the case, the Navy has developed a conceptual approach to the investigation. A series of four wells is proposed at the locations shown on the attached map. It should be noted that the locations selected have not been checked in the field for accessibility, appropriateness

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of topography, or other considerations. Final locations will be proposed in the work plan; however, the concept will remain the same. The intent of the program is to provide monitoring along the western boundary of the AFWTF to assess whether there is any contamination in the uppermost aquifer that may be migrating off Navy property. Additionally, the wells may provide data which could be used as background for the overall corrective action program assuming that no contamination is found in all or some of the wells.

The wells would be installed and sampled in accordance with Standard Operating Procedures (SOPs) to be included in the work plan. These SOPs will be the same or similar to those used for the RCRA Facility Investigation (RFI) at Naval Station Roosevelt Roads. The wells will be sampled once with the samples analyzed for:

Appendix IX constituents

Explosives

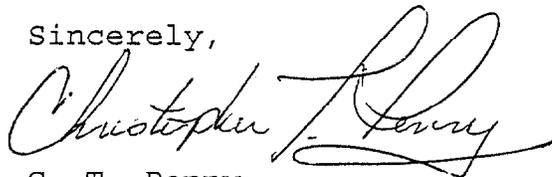
National Secondary Drinking Water Standards (40 CFR, Part 143),

Salinity

Analyses will be conducted using methodologies from SW-846 or other EPA approved methods. Data will be subjected to independent, third party, and validation. All results and data evaluation will be provided to EPA in an appropriate report as will be described in the work plan.

Please do not hesitate to call me at (757) 322-4815 if you have any questions or desire further clarification of any of the points discussed in this letter.

Sincerely,



C. T. Penny

Navy Technical Representative
Installation Restoration Section (South)
Environmental Programs Branch
Environmental Division
By direction of the Commander

Enclosure

Re: Atlantic Fleet Weapons Training Facility (AFWTF)
EPA I.D. No. PRD980536221 Subpart X Permit
Application for Open Burning/Open Detonation Unit
and "Baseline" Groundwater Investigation

Copy to:

USNSRR, PWD/EED (Ms. Madeline Rivera, Mr. Wilfredo Rivera,
Mr. José Negrón)

Baker Environmental (Messrs. Thomas Fuller, Mark Kimes)
Mr. Torres, EQB; Ms. Luz A. Muriel Diaz, EQB

U.S. EPA Region II (Mr. Tim Gordon)

COMNAVBASE JAX (Mr. J. Wallmeyer)

AFWTF (Mr. D. Vélez)

Blind copy to:

18231 (Penny)

18136 (R. Pagtalunan)

18S

DIF-VIEctp.doc

For EPA Regional Use Only	 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; margin: 0;">(Read the Instructions before starting)</p>
Date Received Month Day Year	

I. Installation's EPA ID Number (Mark 'X' in the appropriate box)

<input type="checkbox"/> A. First Part A Submission	<input checked="" type="checkbox"/> B. Part A Amendment #
---	---

C. Installation's EPA ID Number	D. Secondary ID Number (If applicable)
P R D 9 8 0 5 3 6 2 2 1	

II. Name of Facility

L A N T F L T . W E A P O N S T R A I N F A C I R

III. Facility Location (Physical address not P.O. Box or Route Number)

A. Street

E A S T V I E Q U E S

Street (Continued)

--

City or Town	State	Zip Code
V I E Q U E S I S L A N D	P R	0 0 7 6 5 -

County Code (If known)	County Name

B. Land Type (Enter code)	C. Geographic Location LATITUDE (Degrees, minutes, & seconds) LONGITUDE (Degrees, minutes & seconds)	D. Facility Existence Date Month Day Year
F	1 8 0 8 0 3 0 0 6 5 2 2 0 3 0	

IV. Facility Mailing Address

Street or P.O. Box

N S R R P W D E E D P S C 1 0 0 8 B O X 3 0 2 1

City or Town	State	Zip Code
F P O A A		3 4 0 5 1 - 3 0 2 1

V. Facility Contact (Person to be contacted regarding waste activities at facility)

Name (Last)	(First)
C A S T I L L O	S I N D U L F O
Job Title	Phone Number (Area Code and Number)
D I R E C T O R E E D	7 8 7 - 8 6 5 - 4 4 2 9

VI. Facility Contact Address (See Instructions)

A. Contact Address Location Mailing Other	B. Street or P.O. Box
<input checked="" type="checkbox"/> <input type="checkbox"/>	
City or Town	State Zip Code
	-

EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

P R D 9 8 0 5 3 6 2 2 1

XI. Nature of Business (Provide a brief description)

The primary mission of the Atlantic Fleet Weapons Training Facility - Inner Range is to support the training mission of U.S. Navy Atlantic Fleet. However, Naval Station Roosevelt Roads owns the property and operates the waste treatment facility.

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. Thirteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), 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.
 1. **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.
 2. **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
<i>Disposal:</i>			T87	Smelting, Melting, Or Refining Furnace	} Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Metric Tons Per Hour; or Btu's Per Hour
D79	Underground Injection	Gallons; Liters; Gallons Per Day; or Liters Per Day	T88	Titanium Dioxide Chloride Process Oxidation Reactor	
D80	Landfill	Acre-feet or Hectare-meter	T89	Methane Reforming Furnace	
D81	Land Treatment	Acres or Hectares	T90	Pulping Liquor Recovery Furnace	
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T91	Combustion Device Used In The Recovery Of Sulfur Values From Spent Sulfuric Acid	
D83	Surface Impoundment	Gallons or Liters	T92	Halogen Acid Furnaces	
D99	Other Storage	Any Unit of Measure Listed Below	T93	Other Industrial Furnaces Listed in 40 CFR §260.10	
S01	Container (Barrel, Drum, Etc.)	Gallons or Liters	T94	Containment Building Miscellaneous (Subpart X):	
S02	Tank	Gallons or Liters	X01	Open Burning/Open Detonation	
S03	Waste Pile	Cubic Yards or Cubic Meters	X02	Mechanical Processing	
S04	Surface Impoundment	Gallons or Liters	X03	Thermal Unit	
S05	Drip Pad	Gallons or Liters	X04	Geologic Repository	
S06	Containment Building	Cubic Yards or Cubic Meters	X99	Other Subpart X	
S99	Other Disposal	Any Unit of Measure Listed Below			Any Unit of Measure Listed Below
<i>Treatment:</i>					
T01	Tank	Gallons Per Day or Liters Per Day			
T02	Surface Impoundment	Gallons Per Day or Liters Per Day			
T03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; or Btu's Per Hour			
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; Short Tons Per Day; or Btu's Per Hour			
T80	Boiler	Gallons or Liters			
T81	Cement Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			
T82	Lime Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			
T83	Aggregate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			
T84	Phosphate Kiln	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			
T85	Coke Oven	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			
T86	Blast Furnace	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour; Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; or Btu's Per Hour			

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

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

P R D 9 8 0 5 3 6 2 2 1

I. Process Codes and Design Capabilities (Continued)

EXAMPLE FOR COMPLETING ITEM XII (shown in line number X-1 below). A facility has a storage tank, which can hold 533,788 gallons.

Line Number	A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY		C. Process Total Number Of Units	For Official Use Only			
				1. Amount (Specify)	2. Unit Of Measure (Enter code)					
X 1	S	0	2	5 3 3 7 8 8	G	0 0 1				
1	X	0	1	5,000 lb/Burn (net expl. weight)		001				
2	X	0	1	5,000 lb/Detonation (net expl. weight)		001				
3										
4										
5										
6										
7										
8										
9										
1 0										
1 1										
1 2										
1 3										

NOTE: If you need to list more than 13 process codes, attach an additional sheet(s) with the information in the same format as above. Number the lines sequentially, taking into account any lines that will be used for "other" processes (i.e., D99, S99, T04 and X99) in item XIII.

XIII. Other Processes (Follow instructions from item XII for D99, S99, T04 and X99 process codes)

Line Number (Enter #s in seq w/XII)	A. Process Code (From list above)			B. PROCESS DESIGN CAPACITY		C. Process Total Number Of Units	D. Description Of Process
				1. Amount (Specify)	2. Unit Of Measure (Enter code)		
X 1	T	0	4				In-situ Vitrification
1							
2							
3							
4							

EPA I.D. Number (Enter from page 1)

Secondary ID Number (Enter from page 1)

P R D 9 8 0 5 3 6 2 2 1

XIV. Description of Hazardous Wastes

- A. EPA HAZARDOUS WASTE NUMBER** - Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR, Part 261 Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY** - For each listed waste entered in column A estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in column A estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- 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. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste 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.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

1. Enter the first two as described above.
2. Enter "000" in the extreme right box of item XIV-D(1).
3. Enter in the space provided on page 7, item XIV-E, the line number and the additional code(s).

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 (D.(2)).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

1. Select one of the EPA Hazardous Waste Numbers and enter it in column A. On the same line complete columns B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
2. In column A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In column D(2) on that line enter "Included with above" and make no other entries on that line.
3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING ITEM XIV (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operation. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

Line Number	A. EPA HAZARD WASTE NO. (Enter code)				B. ESTIMATED ANNUAL QUANTITY OF WASTE	C. UNIT OF MEASURE (Enter code)	D. PROCESS																
	(1) PROCESS CODES (Enter)						(2) PROCESS DESCRIPTION (If a code is not entered in D(1))																
X 1	K	0	5	4	900	P	T	0	3	D	8	0											
X 2	D	0	0	2	400	P	T	0	3	D	8	0											
X 3	D	0	0	1	100	P	T	0	3	D	8	0											
X 4	D	0	0	2																			Included With Above

EPA I.D. Number (Enter from page 1)										Secondary ID Number (Enter from page 1)													
P	R	D	9	8	0	5	3	6	2	2	1												

XV. Map

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

XVI. Facility Drawing

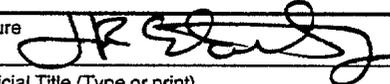
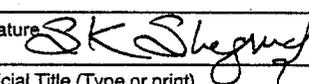
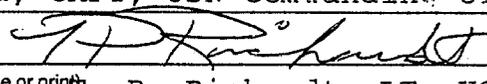
All existing facilities must include a scale drawing of the facility (See instructions for more detail).

XVII. Photographs

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

XVIII. Certification(s)

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.

Owner Signature 	Date Signed 11-9-98
Name and Official Title (Type or print) J.K. Stark, Jr., CAPT, USN Commanding Officer	
Owner Signature	Date Signed
Name and Official Title (Type or print)	
Operator Signature 	Date Signed 6 NOV 98
Name and Official Title (Type or print) S. K. Shegrud, CAPT, USN Commanding Officer, AFWTF	
Operator Signature 	Date Signed 06 NOV 98
Name and Official Title (Type or print) I. P. Richardt, LT, USN Officer in Charge, EOD Mobil Unit	

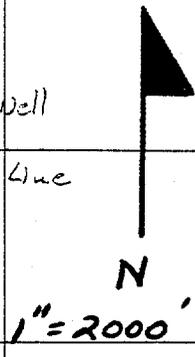
XIX. Comments

This revised Part A is submitted to add the ability to receive off-site waste. This change is necessary as a result of the MMR which designates military munitions as waste from the time it leaves the storage facility.

Note: Mail completed form to the appropriate EPA Regional or State Office. (Refer to instructions for more information)

⊕ Proposed Monitoring Well

— Navy Property / Fence Line



PUNTA
MARTINEAU

MARTINEAU
X = 834,490.18314
Y = 114,100.50108

ROAD 200

PUERTO MULAS J
X = 329,213.14548
Y = 112,188.59919

Eastern
Maneuver
Area
→

SUMMIT 1901
X = 837,773.410
Y = 107,375.675
SUMMIT 2
X = 837,772.249
Y = 107,349.291

ROAD 201

BAYIA
TAPON

ROAD 996

DE

SECTION A

PART A UPDATE

A-1 INTRODUCTION [40 CFR 270.13]

The Atlantic Fleet Weapons Training Facility (AFWTF) Inner Range, Vieques Island, Puerto Rico is seeking a Hazardous Waste Permit for a hazardous waste treatment facility comprised of an open burning unit used for the open burning of propellants, pyrotechnics and other specified ordnance, and an open detonation unit used for the thermal treatment of high explosive wastes such as RDX, HMX, PETN, Amatol and various other explosives described in the waste analysis plan. The facility is located on the Air Impact Area (AIA) portion of the AFWTF.

Naval Station Roosevelt Roads is the owner of the property. AFWTF operates the military installation. Operationally, the Explosive Ordnance Disposal (EOD) detachment is accountable to the ~~Commanding Officer~~, Naval Station Roosevelt Roads. Administratively, EOD is a component of EOD Group II, Norfolk, Virginia.

Currently, the facility has authorization under interim status for the thermal treatment of waste pyrotechnics, explosives, and propellants (PEPs). The process code for this treatment is X01 for open burning and open detonation. The hazardous waste number for explosive hazardous materials treated at the Inner Range are DOO3, D008 and D009. This revised Part A permit application amends the previous Part A permit application (June 28, 1993).

A-2 CHANGES FROM PREVIOUS PART A APPLICATION

Form 1:

The title, address and telephone number of the facility contact as well as the name and title of the signatory have changed.

Form 3:

The process design capacity has been changed to reflect two X01 units (one open burning and one open detonation). The capacities are given in pounds per burn and pounds per detonation, respectively. Throughout the Part A and B application, pounds is expressed in terms of Net Explosive Weight (NEW) as compared to TNT. This is the reason that the estimated annual amounts are now 5,000 pounds for open burning and 10,000 pounds for open detonation. The waste codes have been altered to reflect that the wastes exhibit heavy metal TCLP toxicity properties as well as the reactivity characteristic.

SECTION B

FACILITY DESCRIPTION

B-1 GENERAL FACILITY DESCRIPTION [40 CFR 270.14(b)(1)]

Vieques Island is located approximately seven miles southeast of the U.S. Naval Station Roosevelt Roads, Puerto Rico. With a total surface area of roughly 33,000 acres, approximately 22,600 acres of Vieques Island are owned by the U.S. Navy. This is comprised of three areas: (1) the Naval Ammunition Support Detachment (NASD), comprised of 8,000 acres and located on the westernmost tip of the island; (2) the Eastern Maneuver Area (EMA), comprised of 11,000 acres and located within the east-central portion of the island; and (3) the Atlantic Fleet Weapons Training Facility, comprised of 3,600 acres and located on the eastern portion of the island. EMA and AFWTF are collectively known as the Inner Range, which encompasses the area extending to a limit of three miles from the shoreline. The AIA is located within the AFWTF; this impact range is primarily utilized for the above-described gunfire and ordnance delivery training activities. Figure B-1 presents a vicinity map which shows the AFWTF location relative to Puerto Rico, Naval Station Roosevelt Roads, and other nearby islands.

Within the Inner Range, the Atlantic Fleet's ships, aircraft and marine forces carry out training in all aspects of naval gunfire support, air-to-ground ordnance delivery, air-to-surface mine delivery, amphibious landings, small arms, artillery and tank fire, and combat engineering. In addition, the AIA is used semiannual for the treatment of retrograde (unserviceable ordnance) which is classified as a hazardous waste. These materials are treated through open burning/open detonation (OB/OD).

The AFWTF, located on the eastern tip of the island, is tasked with providing facilities and scheduling naval gunfire support and air-to-ground ordnance delivery training for Atlantic Fleet ships, NATO ships, air wings, and smaller air units from other allied nations and the Puerto Rican National Guard. In addition, AFWTF operates other military facilities which are not located on Vieques.

The Eastern Maneuver Area is located adjacent to and to the west of the AFWTF. Marine Forces Atlantic (MARFORLANT), conducts training for Marine expeditionary units, battalion landing teams and combat engineering units on the Eastern Maneuver Area. On occasion, other allies having a presence in the Caribbean and the Puerto Rican National Guard also utilize the Eastern Maneuver Area.

Ammunition is stored at the NASD on the western tip of Vieques Island. Operated by the Weapons Department of Naval Station Roosevelt Roads, the NASD's mission is to receive, store and issue all ordnance authorized by Naval Station Roosevelt Roads for support of the Atlantic Fleet units.

The west-central portion of the island is privately owned. Several small towns and villages are located within this area. Cattle grazing is the primary land use in this area. In addition, sections of the EMA, excluding the AIA, are leased to local ranchers for cattle grazing.

These three facilities constitute 22,000 acres of the 33,000 acres of Vieques Island. The remainder of the island is owned by either the Commonwealth of Puerto Rico or private individuals. The activities of the AFWTF, the Eastern Maneuver Area and the NASD function under the consolidated command of Commander in Chief, U.S. Atlantic Fleet (CINCLANFLT). The commanding officer of AFWTF has jurisdiction over scheduling all naval exercises in the Inner Range.

The facility location is:

Atlantic Fleet Weapons Training Facility
Vieques Island, Puerto Rico

The facility mailing address is:

Naval Station Roosevelt Roads
Public Works Department
PSC 1008 Box 3021
FPO AA 34051-3021

The facility contact is:

Mr. Sindulfo Castillo
Environmental Engineering Division
Director
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B-2 TOPOGRAPHIC MAP [40 CFR 270.14(b)(19)]

Figure B-2 is a topographic map of the facility and its surrounding areas at a scale of 1"=2,500'. Figures B-2(a) and (B-2(b) are topographic maps of the facility and the surrounding area at a scale of 1" = 200', extending 1,000 feet beyond the perimeter of the facility. Figures B-2, B-