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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

**230 SOUTH DEARBORN ST.
CHICAGO, ILLINOIS 60604**

REPLY TO THE ATTENTION OF:

FEB 11 1987

5HS-13

CERTIFIED MAIL #P557 098 151
RETURN RECEIPT REQUESTED

J.D. Faris, Manager
Engineering Division
Public Works Department
Department of the Navy
Naval Weapons Support Center (0924)
Crane, Indiana 47522-5009

Re: Visual Site Inspection
U.S. Navy, Crane
IND 170023498

Dear Mr. Faris:

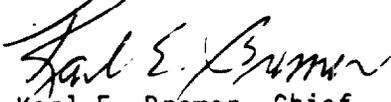
The Hazardous and Solid Waste Amendments (HSWA) of 1984 to the Resource Conservation and Recovery Act (RCRA) require that permits issued after November 8, 1984, include provisions for corrective action for all releases from solid waste management units at the facility. Previously, your company has supplied the United States Environmental Protection Agency (U.S. EPA) with information concerning solid waste management units at your facility. The next stage in the U.S. EPA's evaluation process is a "Visual Site Inspection" (VSI).

The VSI for your facility is scheduled for February 17-20, 1987. It will be conducted by Mr. Ruggery and Ms. Harris of A.T. Kearney, Inc., under contract with the U.S. EPA. RCRA Section 3007(a) gives the U.S. EPA or its representative authority to inspect facilities, which handle hazardous wastes, for purposes of enforcing the Act.

Enclosed with this letter is a proposed agenda and a list of informational needs. Please have your responses to the enclosed list of informational needs available during this visit. Also, please have the appropriate staff available to answer questions concerning the areas identified in the enclosed agenda.

Your cooperation during this visit will be greatly appreciated. If you have any questions, please contact Mr. Martin Hamper, at (312) 886-0984 for assistance.

Sincerely,



Karl E. Bremer, Chief
Technical Programs Section

Enclosure

cc: J. Huntsicker
G. Doyle, IDEM (w/attachment)

**RCRA FACILITY ASSESSMENT
VISUAL SITE INSPECTION AGENDA**

FACILITY: Naval Weapons Support Center, Crane, Indiana

EPA ID NO: IN5170023498

FACILITY CONTACT: Jim Faris (812) 854-3114

DATE OF INSPECTION: February 17th, 18th, 19th, and 20th, 1987

PERSONNEL: Donald A. Ruggery, Jr., A. T. Kearney, Inc.,
Geologist, U.S. Citizen
Vanessa Harris, A.T. Kearney, Inc.,
Environmental Engineer, U.S. Citizen

**PURPOSE OF THE VISUAL
SITE INSPECTION**

The Hazardous and Solid Waste Amendments of 1984 (HSWA) broaden the scope of EPA's authority under RCRA by requiring corrective action for releases of hazardous wastes and constituents at facilities that manage hazardous wastes. The authority requires corrective action for releases to the environment from any Solid Waste Management Unit (SWMU), including hazardous or non-hazardous wastes. The RCRA Facility Assessment includes a desk-top review of available file information (preliminary review), a visual site inspection of the facility, and, if necessary, a sampling visit. The preliminary review has been completed for this facility and a visual site inspection (VSI) has been determined to be necessary. The purpose of the VSI is to:

1. Confirm, by visual inspection, information collected during the PR;
2. Survey the site for additional SWMUs and other areas of concern, and identify potential sample points for possible future sampling activities;
3. Review the site information with facility representatives and collect additional information to address the information needs identified during the PR. Photographs are to be taken of all units and areas of concern.

Please note that the proposed agenda is based on information gathered during a desk-top review of USEPA and Indiana State Department of Environmental Management Files. The proposed agenda has been developed according to the numerical grid system in use at NWSC. There are 24 geographic divisions of which some have more identified SWMUs than others (see attached map). The units listed under each section are generalized areas of concern in which other units have been identified but their specific locations are unknown. Table I presents a list of all specific SWMUs identified in the PR. It is likely that various SWMUs or processes have not been identified in the file review, or that one unit might be listed under two different names.

These issues will be resolved during the initial meeting on Day 1 of the VSI. A more efficient agenda may be arranged in order to assure that all SWMUs identified in the file review and during the VSI will be inspected.

PROPOSED INSPECTION SCHEDULE
Naval Weapons Support Center
Crane, Indiana

Day 1

ARRIVE AT FACILITY

- Introductory meeting
- Discuss preliminary findings
- Revise agenda as needed

TOUR MAP SECTIONS 3, 6, 7, and 8

Section 3:

- Transfer Depot
- Three Inch Auto Load Plant

Section 6:

- Inspect general condition of projectile powder magazines

Section 7:

- Industrial Area - "Open Storage"
- Maintenance Shop - Bldg. 56
- Underground Storage Tanks
- Pyro Area
- Roads and Grounds Dump Area
- Bruster Area
- Bldg. 13

Section 8:

- Concrete Pad No. 2985
- Open Storage Areas
- Reflective Range Facility

CLOSING MEETING TO DISCUSS ANY INFORMATION GAPS ON THE
DAY'S INSPECTION

Day 2 TOUR MAP SECTIONS 11, 12, 13, and 14

Section 11:

- Load and Fill Area, Bldgs. 104, 105, 198, and 220
- Load and Fill Area Pond, Bldg. 106

Section 12:

- Area listed as Production Area
- Supply Department Salvage Yard
- South Transfer Depot
- Rifle Range Burning Area
- Demolition Range
- Bomb Proof Group
- Load and Fill Area
- Area listed as "Restricted Explosive Area"

Section 13:

- Transfer Depot

Section 14:

- Ammunition Burning Grounds (ABG)
- Dye Burial Grounds

CLOSING MEETING TO DISCUSS ANY INFORMATION GAPS ON THE DAY'S INSPECTION

Day 3 TOUR MAP SECTIONS 16, 17, 20, and 23

Section 16:

- Burning Area
- Landfill and Collection Ponds

Section 17:

- Section of the Demolition Range
- Sedimentation Pond

Section 20:

- Pyro Test Area
- Test Track

Section 23:

- Rocket Range
- Area listed as "Restricted Explosive Area, Possible Contamination"
- Decontamination Bldg.

CLOSING MEETING TO DISCUSS ANY INFORMATION GAPS ON THE DAY'S INSPECTION

Day 4

TOUR ANY REMAINING AREAS NOT COVERED IN DAYS 1 to 3

CLOSING MEETING

DEPART FACILITY

PRELIMINARY INFORMATION NEEDS FOR
RCRA FACILITY ASSESSMENT

PROCESS AND WASTE GENERATION INFORMATION

1. Characterize the generation, collection, and method of transfer of waste materials from the following:
 - o Explosives Production
 - o Metal Plating
 - o Demilitarization
 - o Maintenance Operations
2. Identify all wastewater treatment units, their location, any hazardous constituents being handled by each unit, and eventual outfall of the wastewater.
3. Identify any wastestreams that are received by the Facility Sewer System. Characterize any hazardous constituents in the wastestream.

SOLID WASTE MANAGEMENT UNITS

1. Identify past or present Solid Waste Management Units which have not been previously identified, either in Table I of the proposed VSI agenda or the general areas identified in each map section.
2. In general, identify the dates of start-up, date of closure, wastes handled, release controls, and any previous release history from each unit listed in Table I of the proposed VSI agenda.
3. Distinguish specific waste generation/disposal areas within the ABG and other Open Burning Areas.
4. Discuss present disposal of ash and debris from incineration and open burning. Within this discussion, present the operating status of the Ash Pile at the ABG.
5. Identify wastewater management practices in the past and the approximate time period in which wastewater treatment systems were installed.
6. Identify all satellite drum storage areas to the Central Storage Facility (CSF).

MISCELLANEOUS

1. Provide a facility map indicating the location of all wastewater treatment plants, and if possible, the location of the units listed in Table I of the proposed VSI Agenda.
2. Provide flow diagrams for the facility sewer system.

TABLE I

NWSC - Crane, Indiana
SWMU List
R05-02-45

SWMU Name

1. Sanitary Landfill
2. Solid Fill Sites Landfill
3. Incinerator - Classified Papers
4. Landfarm
5. Above-ground Storage Tank
6. Underground Storage Tank
7. Underground Storage Tank
8. Underground Tank (ABG)
9. Wastewater Treatment Unit Bldg. 160
10. Wastewater Treatment Unit Bldg. 3044
11. Wastewater Treatment Unit Bldg. 136
12. Wastewater Treatment Unit Bldg. 3064 (Plating Shop)
13. Wastewater Treatment Unit Sewage Plant Bldg. 3049
14. Underground Storage Tank (ABG)
15. Waste Treatment Unit (ABG)
16. Demolition Range
17. Rifle Range
18. Sanitary Landfill Leachate Collection Ponds
19. Restored Mustard Gas Burial Area
20. Ammunitions Burning Grounds (ABG)
21. Old Burning Pit
22. Pest Control Area

TABLE I
(Cont'd)

NWSC - Crane, Indiana
SWMU List
R05-02-45

SWMU Name

23. Rockeye Loading Area
24. Battery Shop Dump
25. McComish Gorge Dump
26. PCB Burial Area (Pole Yard)
27. Roads and Grounds Dump Area
28. PCP Dip Tank
29. Lead Azide Loading Pond
30. Sedimentation Pond 333
31. Dye Burial Grounds
32. Load and Fill Area Bldgs. 104, 105, 198, and 200
33. Mine Fills A and B
34. Cast High Explosives Fill
35. Load and Fill Area - Bldg. 106 Pond
36. Bldg. 126 Sump
37. Bldg. 126 Dust Collectors
38. Red Phosphorous Building Sump
39. Bldg. 133 Sump
40. Bldg. 136 Sump
41. Wastewater Treatment Unit Bldg. 104
42. Rockeye Percolation Site
43. "Explosive D" Wash Areas

TABLE I
(Cont'd)

NWSC - Crane, Indiana
SWMU List
R05-02-45

44. Steamout Unit
45. Load Fill Complex Bldgs. 106-107
46. Composition Testing Facility Bldg. 181
47. Transfer Depot Washrack Bldg. 600
48. Railroad Equipment Shop
49. Auto Maintenance Shop Bldg. 1820
50. Mechanical Maintenance Shop Bldg. 56
51. 400 Gallon Solvent Storage Tank
52. Paint Shop Bldg. 2889
53. Turkey Creek Quarry
54. Metal Shavings Collection Area
55. Highway 58 Dump Site A
56. Highway 58 Dump Site B
57. Storage Tanks - Bldg. 104
58. Surface Impoundment Filtrate Holding Tanks
59. FS Smoke Storage Facility Bldgs. 1008, 11815, 1816, 2646,
and 1794
60. Central Storage Facility (CSF)
61. APE 1236 Incinerators
62. Prototype Incinerator
63. Sludge Dewatering Units
64. Ash Pile (ABG)
65. One-Ton Stake Bed Truck

TABLE I
(Cont'd)

NWSC - Crane, Indiana
SWMU List
R05-02-45

66. 500 Gallon Tank Wagon
67. 3-Ton Pump Truck
68. Ash-Roll-off Box
69. Temporary Flammable Storage
70. DPDO Hazardous Waste Storage Area
71. Acid Neutralization Pit
72. Ash Settling Ponds
73. Chromate Rinse Collection Sump
74. Chrome Rinse Holding Tank
75. Acid-Alkali Rinse Holding Tank
76. Cyanide Rinse Collection Sump
77. Cyanide Storage Tank
78. Cyanide Batch Treatment Tanks
79. Filter Supply Tank
80. Vertical Plate Pressure Filter
81. Reuse Holding Tank
82. pH Adjustment Tank
83. Sanitary Sewer System