



DEPARTMENT OF THE NAVY
PORTSMOUTH NAVAL SHIPYARD
PORTSMOUTH, N.H. 03804-5000

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IN REPLY REFER TO:

May 30, 1995

MEMORANDUM

FOR THE MEMBERS OF THE RESTORATION ADVISORY BOARD (RAB) CERCLA
REMEDIAL ACTION PROGRAM, PORTSMOUTH NAVAL SHIPYARD, KITTERY, MAINE

The second orientation meeting will be June 6, 1995 at 7 PM in the
Kay Howells Room of the Rice Public Library in Kittery, Maine. We
will presenting the history of the Installation Restoration
Program, the responsibilities of the Co-chair, and the Community
Co-chair Nominations. I look forward to seeing you again.

Sincerely,

A handwritten signature in cursive script that reads "Ken Plaisted".

Ken Plaisted
Navy Co-Chairman
Restoration Advisory Board

Distribution:

Juanita Bell
Doug Bogen
Jeff Clifford
Michele Dionne
Eilene Foley
Phil McCarthy
Jack McKenna
John Nelson
Guy Petty
Onil Roy
Cathy Wolff
EPA Region I (M. Cassidy)
MEDEP (N. Beardsley)
NOAA (K. Finkelstein)
MEDMR (D. Card)
USFWS (K. Munney)
North Div (J. Conroy)
COMSUBGRU TWO (R. Jones)
Portsmouth Naval Shipyard (Codes 120, 121, 121.10, 122.4, 100PAO,
105, 105.5, NRRO)

CONTINUOUS IMPROVEMENT THROUGH TEAMWORK

To: jmconroy@efdnorth.navfac.navy.mil
Cc:
Bcc:
From: fje_c120@ns01.ports.navy.mil
Subject: RAB Meeting of 6/6/95
Date: Wednesday, June 7, 1995 1:37:20 EDT
Attach: Headers.822
Certify: N
Forwarded by: "Francis J. Endyke" <fje_c120@ns01.ports.navy.mil>

Forwarded to: SMTP[jmconroy@efdnorth.navfac.navy.mil]
cc:
Forwarded date: Time not available
Comments by: Francis J. Endyke@C120@pns

----- [Original Message] -----

A Restoration Advisory Board orientation and training session was conducted at 7 PM in the Kay Howells Room of the Rice Public Library in Kittery, Maine. The following agenda was followed:

- Introduction and Team Building Exercise
- History of the DoN IR Program
- History of the PNS IR Program
- Co-chair responsibilities
- Community Co-chair Nominations

Attendees:

PNS: Ken Plaisted, Fran Endyke, Debbie Holton
NORTHDIV: Lt Jim Conroy
EPA: Meghan Cassidy, Patty Whittemore
MEDEP: Nancy Beardsley
MEDMR: Don Card
TAG: Cathy Wolff
Community: Juanita Bell, Doug Bogen, Jeff Clifford, Phil McCarthy,
Jack McKenna, and Guy Petty

Not in Attendance:

Community: Michele Dionne, Eileen Foley, John Nelson and Onil Roy

Meeting Summary:

The meeting went as planned and we again maintained a highly professional atmosphere and dialogue in our partnering efforts with the community. Please find below significant questions or concerns raised during the meeting.

* During the presentation of the History of the DoN IR Program a question arose as to whether radionuclides would be covered and from what time frame (i.e. pre 1980). Jeff Clifford stated that the Nuclear Program was not part of the IR Program. Ken Plaisted quickly responded to the situation by stating that radionuclides are part of the IR program under CERCLA and that a Historical Radiological Assessment would be issued for review and comment. This answer satisfied the group.

* During the History of the PNS IR Program the community raised the concern that the Offshore and Onshore studies needed to be linked and was the methodology within their perview. We answered to say that we were working

*June 6, 1995
mtg*

hard to link the two via the Ecological Risk Assessment and the Offshore Media Protection Standards. We explained that all documents associated with the IR Program were within their perview.

* Three candidates for the Community Co-chair discussed why they should be elected to the position. They are Doug Bogen, Jeff Clifford and Jack Mckenna. They will again speak at the next meeting in order to solicit a vote on their behalf.

* Questions on the TAG were raised concerning their status and their responsibilities. Meghan Cassidy stated that the TAG was developing a proposal to solicit bids from consultants via the federal bid process and that it usually takes about six months to award the contract. At a future meeting the EPA and the Seacoast Anti Polution League(SAPL) would make presentations to the RAB about the expectations of the TAG.

* A concern has been raised about the meeting day being Tuesday vice another day of the week. An explanation was provided as to how the day was picked and that the day could be changed based on what the community members wanted for a meeting day as this is their meeting. This item would be discussed at the next meeting.

* A concern was raised about the frequency of meetings. Kathy Wolff was concerned that we were meeting too frequently. Jeff Clifford wants to meet more often. Ken Plaisted stated that we expected to meet about every two months once we were up and running as a RAB.

The next RAB orientation and training session will be June 20, 1995 at the Rice Public Library. The Community Co-chair will be elected and development of the RAB charter will commence.

DEPARTMENT OF THE NAVY
INSTALLATION RESTORATION
PROGRAM

Installation Restoration Program

- **Purpose:** The purpose of the IR Program is to identify, assess, characterize and clean up or control contamination from **past** hazardous waste disposal operations and hazardous material spills.
 - The Navy has been actively engaged in the IR Program since 1980, complying with its legal obligations and its obligations to protect human health and the environment.

Installation Restoration Program

- **History:** The Navy IR Program began with the passage of CERCLA in 1980. Because CERCLA did not specifically apply to Federal Facilities the Navy's program was slightly different. The first step in the process was an Initial Assessment Study (IAS), followed by a Confirmation Study (CS) and then Corrective Measures Implementation (CMI). Beginning in 1986 and the passage of SARA, the Navy's IR Program adopted the CERCLA process and terminology (except at sites covered by RCRA Corrective Actions).

Installation Restoration Program

- **LAWS :**

- **CERCLA** - Comprehensive Environmental Response, Compensation and Liability Act (1980) a.k.a. SUPERFUND, establishes a program for cleanup of hazardous waste disposal and spill sites nationwide.
- **SARA** - Superfund Amendments and Reauthorization Act (1986), expanded the scope and requirements of CERCLA to include Federal Facilities under a program called DERP - *Defense Environmental Restoration Program* of which the IR Program is a component. Funds for this program are provided by Congress using a special account called DERA - *Defense Environmental Restoration Account*.

Installation Restoration Program

- **LAWS (cont):**

- **RCRA** - Resource Conservation and Recovery Act (1976) regulates current and future hazardous waste management practices.
- **HSWA** - Hazardous and Solid Waste Amendments (1984), expanded the scope of RCRA to include identification and cleanup of contaminated sites at permitted facilities. These sites are called *Solid Waste Management Units (SWMUs)*.
- **FFCA** - Federal Facility Compliance Act (1992), waives federal facilities immunity from violations of federal, state or local solid and hazardous waste laws.

Installation Restoration Program

- **RCRA/CERCLA Implementation**

- Shared approach for establishing nature and extent of contamination.
- Similar remedial alternative evaluation.
- Analytical Procedures
 - CERCLA Contract Laboratory Program (CLP) & QA/QC
 - RCRA SW-846 methodologies and QA/QC
 - RCRA has less potential for litigation so less need for court defensible data.

Installation Restoration Program

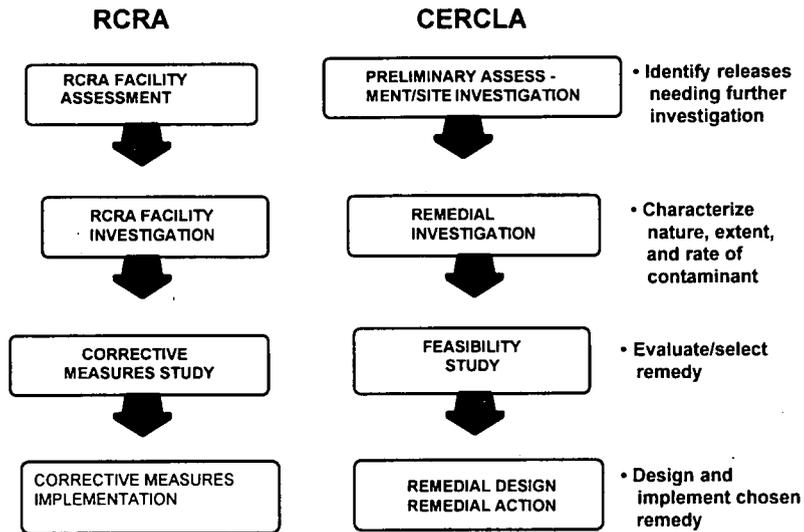
- **Public Participation**

- Public participation is ongoing during CERCLA
- RCRA requires public participation at specific points (e.g., permitting and media protection standards)
 - Navy IRP has required public participation through Technical Review Committees (TRC) and now Restoration Advisory Boards (RAB)

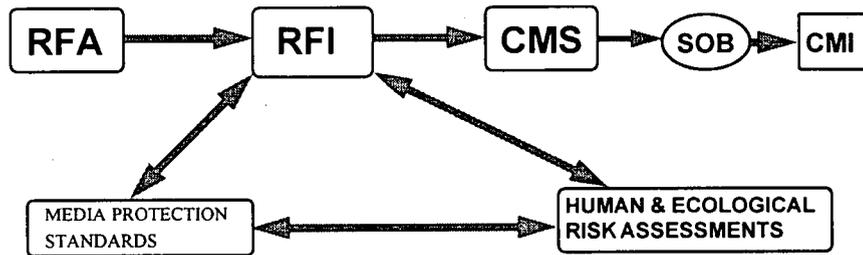
- **Risk Assessment**

- Both use risk assessment guidance set by EPA

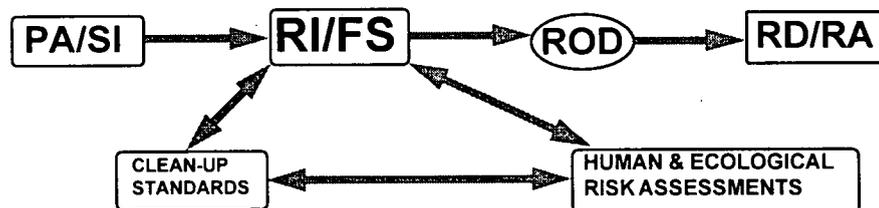
COMPARISON OF RCRA CORRECTIVE ACTION AND CERCLA REMEDIAL PROCESSES



RCRA CLEAN-UP GOALS



CERCLA CLEAN-UP GOALS



**PORTSMOUTH NAVAL
SHIPYARD**

**INSTALLATION
RESTORATION
PROGRAM**

Portsmouth Naval Shipyard Installation Restoration Program

- **Initial Assessment Study - 1983**
 - Identified Jamaica Island Landfill (JILF), Industrial Waste Outfalls and the Mercury Burial Sites
- **Confirmation Study - 1986**
 - Focused on JILF and Defense Reutilization Marketing Office (DRMO) storage yard; formerly Defense Property Disposal Office

Portsmouth Naval Shipyard

- **RCRA Facility Assessment (RFA) - 1986**
 - PNS Report identifying Solid Waste Management Units (Jul 85)
 - Hazardous and Solid Waste Amendments of 1984 (HSWA) added Corrective Action Authority to RCRA
 - EPA Conducted RCRA Facility Assessment (Final Report Jul 86)
 - Identified 28 Solid Waste Management Units (SWMUs)
 - RFA Addendum (Jan 88)
 - RFA and Addendum made recommendations re: potential impacts of SWMUs and investigation needs. 15 SWMUs recommended for no further action.

Portsmouth Naval Shipyard Installation Restoration Program

- **HSWA Permit - 1989**
 - Permit instituted RCRA Corrective Action Program at PNS
 - Identified investigation needs and schedule for 13 SWMUs
 - Media to be investigated
 - Ecological and Human Health Risk Assessments
 - Established requirements for Media Protection Standards (MPS) and Corrective Measures Study (CMS) Proposal and Report
 - Corrective Measures Design and Implementation requirements established by permit modification after CMS Report

Portsmouth Naval Shipyard Installation Restoration Program

- **RCRA Facility Investigation (RFI)**
 - Conducted in 4 phases from 1989 to 1992
 - Approved w/conditions Apr 1993
 - RFI Addendum
 - RFI Data Gap Investigation
 - Field work conducted during summer of 1994
 - On-Shore Ecological Risk Assessment completed Aug 1992
 - On-Shore and Off-Shore Human Health Risk Assessments finalized Spring 1994
 - On-Shore Media Protection Standards set July 1994

Portsmouth Naval Shipyard Installation Restoration Program

- **RFI Continued**

- Off-Shore Investigations, 1989 to present
 - Began by McLaren/Hart 89/90
 - NCCOSC, USEPA ERLN, UNH, URI, SAIC
 - Phase I, Sep 91 to May 93
 - Problem formulation
 - Phase II, Jun 92 to present
 - Focused on areas of concern
 - Ecological Risk Assessment, Draft due 31 May 95
 - Revised Draft Media Protection Standards due 15 Jun 95

Portsmouth Naval Shipyard Installation Restoration Program

- **Interim Corrective Measures**

- Capping at DRMO completed Nov 1993
 - Prevent migration of contaminants via infiltration, runoff and wind
- Tank Removals

- **National Priorities List (NPL)**

- Proposed NPL Jun 93
- Placed on NPL May 94
- Surface water and groundwater migration pathways were the major considerations

Portsmouth Naval Shipyard Installation Restoration Program

- **Corrective Measures Study (CMS)**
 - CMS Proposal (On-Shore)
 - Draft, Aug 93 (McLaren/Hart)
 - Revised Draft, Jun 94 (Halliburton NUS)
 - CMS Report (On-Shore)
 - Developed to meet both RCRA and CERCLA requirements
 - Changed to CERCLA Feasibility Study after Rough Draft
 - Draft submitted Mar 95

Portsmouth Naval Shipyard Installation Restoration Program

- **Off-Shore Feasibility Study (FS)**
 - Scheduled to begin late 1995
- **Proposed Plan and Record of Decision**
 - 6 to 9 months after regulatory concurrence on Feasibility Study
- **Remedial Design/Remedial Action (RD/RA)**
 - RA Required to begin within 15 months of ROD

RAB MEMBERS

Navy/Shipyard

Kenneth Plaisted
LT James Conroy

Community

Juanita Bell
Doug Bogen
Jeff Clifford
Michele Dionne
Eileen Foley
Phil McCarthy
Jack McKenna
John Nelson
Guy Petty
Onil Roy
Cathy Wolff

Regulators

Meghan Cassidy- U.S.EPA
Patty Marajh-Whittemore-U.S.EPA
Nancy Beardsley-Maine DEP

Natural Resource Trustees

Ken Finkelstein-NOAA
Ken Munny-U.S.Fish and Wildlife
Donald Card-Maine Department of Marine Resources

**PORTSMOUTH NAVAL SHIPYARD
INSTALLATION RESTORATION PROGRAM**

**STATUS OF WORK
(19 June 95)**

A. RFI DATA GAP INVESTIGATION

PURPOSE - Respond to additional information requests as a result of the RCRA Facility Investigation (RFI) approval with conditions by the EPA. Primarily focused on: the hydrogeology of the island (including tidal influences), location and integrity of SWMU 9 - Mercury Burial Vaults and the extent of soil and groundwater contamination at SWMU 11 - Waste Oil Tanks.

STATUS - Field work was conducted during June, July and August of 1994. The Draft RFI Data Gap Report was submitted to the EPA and Maine Department of Environmental Protection in January of 1995. Regulatory comments have been received and a response letter dated 8 Apr has been sent.

NEXT ACTION - Discuss resolution of comments with EPA and MEDEP prior to finalizing report.

B. PHASE II AMBIENT AIR QUALITY MONITORING

PURPOSE - To conduct additional air quality monitoring to confirm the presence or absence of specific chemicals which had been found during the Phase I investigation.

STATUS - Field work was conducted during July of 1994. The Phase II investigation indicates that PNS is not a significant source of any of the chemicals which were monitored for. Following Navy review of the Rough Draft Report the Draft Phase II Air Report was submitted to the EPA and Maine Department of Environmental Protection in April of 1995. EPA comments dated May 30th, have been received, awaiting MEDEP comments.

NEXT ACTION - Following receipt of MEDEP comments the Navy will prepare a response to comments for approval prior to finalizing the report.

C. FEASIBILITY STUDY REPORT (ON-SHORE)

PURPOSE - To develop, evaluate and screen appropriate remedial alternatives for the Solid Waste Management Units (SWMUs) and associated impact areas.

STATUS - The Draft Feasibility Study Report was submitted to the EPA and Maine Department of Environmental Protection on March 24, 1995. Due to the length and complexity of the report regulatory comments are currently being provided on sections of the report. We are also considering breaking the report into separate reports based on the expected funding of remedial actions.

NEXT ACTION - Final regulatory comments on draft document and Navy response.

D. PROPOSED PLANS AND RECORDS OF DECISION (ON-SHORE)

PURPOSE - The Proposed Plan presents the preferred remedial alternative which has been selected by the Navy and the regulatory agencies as that most appropriate for the particular site. This decision is subject to public review and comment, which is the purpose of the Proposed Plan. The Record of Decision serves to document the selection of the preferred alternative and document response to public comment.

STATUS - Preparation of the Proposed Plans and Record of Decisions has been funded and Halliburton NUS is under contract for the development of these documents.

NEXT ACTION - Work can begin at the point of regulatory concurrence with Feasibility Study recommendations.

E. REMEDIAL DESIGN/REMEDIAL ACTION

Remedial alternatives to be established by Feasibility Study.

F. INTERIM GROUNDWATER MONITORING WORKPLAN AND IMPLEMENTATION

PURPOSE - Monitoring of existing groundwater monitoring wells is being considered to provide additional data on the release and movement of contaminants from several of the SWMUs. This data will provide a better baseline of information to judge the effectiveness of any future remedial actions. It will also serve to provide advance warning if the level of contamination were to worsen.

STATUS - The Draft Workplan was submitted to EPA, MEDEP and the RAB on May 23, 1995. Comments are requested by June 30th. Implementation of the field work was negotiated and awarded to HNUS based on the Draft Workplan. Changes to the workplan will be reflected in the first round of sampling which is planned to begin in the fall.

NEXT ACTION - Regulatory review of workplan.

G. STUDY AREAS

STATUS - Through historical research of PNS disposal practices at the Shipyard we have become aware of five potentially new study areas. Currently PNS is conducting additional historical research into these sites. For those sites which the Navy, EPA, MEDEP and RAB consider necessary to investigate further, the next step would be to conduct a Preliminary Assessment and Site Investigation (PA/SI). This would provide justification for no further action or full incorporation into the IR process.

NEXT ACTION - Provide historical research information to EPA/MEDEP/RAB and conduct site tour.

H. ECOLOGICAL RISK ASSESSMENT (OFF-SHORE)

PURPOSE - Evaluate the potential for adverse effects from contaminants which may have been released from PNS SWMUs.

STATUS - An extension for the submittal of the Revised Draft Ecological Risk Assessment Report was requested by the Navy until July 21st. This request was approved by the EPA and MEDEP with an expression of concern about the slippage which has occurred. The revisions are based on regulatory comments received from a previous draft. A human health risk assessment has already been conducted.

NEXT ACTION - Submittal of the ERA and regulatory review.

I. OFF-SHORE MEDIA PROTECTION STANDARDS

PURPOSE - Based on the findings of both the human health and ecological risk assessments, levels of contaminants in the sediments and surface water which will minimize the potential for adverse impacts will be determined.

STATUS - The human health based standards were submitted on June 13th (cover letter dated 9 Jun 95) to the EPA and MEDEP. The ecologically based standards will be developed following submittal of the ecological risk assessment. Once both receive regulatory review, combined media protection standards will be proposed by the Navy which consider both human health and ecological effects.

NEXT ACTION - Regulatory review of the human health based MPS and submittal of the ecologically based MPS by the Navy.

J. OFF-SHORE MONITORING WORKPLAN AND IMPLEMENTATION

PURPOSE - Monitoring of the offshore environment surrounding PNS is being considered to provide additional data on the release and movement of contaminants from several of the SWMUs and the distribution of contaminants in the river. This data will provide a better baseline of information to judge the effectiveness of any future remedial actions. It will also serve to provide advance warning if the level of contamination were to worsen.

STATUS - Halliburton NUS and the University of New Hampshire are under contract to prepare the workplan. The draft workplan is due December 1995. Funding for implementation of the workplan has been requested for next fiscal year.

NEXT ACTION - Develop workplan. Because of the complex nature and long development time required for this effort we will discuss the need for interim "discussion points". This could help to keep the workplan development focused to the expectations of all parties.

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K. FEASIBILITY STUDY REPORT (OFF-SHORE)

PURPOSE - To develop, evaluate and screen appropriate remedial alternatives for the sediments and surface water which have been impacted by PNS Solid Waste Management Units (SWMUs).

STATUS - Preparation of the Off-Shore Feasibility Study has been funded and Halliburton NUS is under contract for the development of this document. Once the Feasibility Study Report is completed, a Proposed Plan and Record of Decision will be developed. If necessary remedial design and remedial action will be conducted.

Note: A pilot study is being considered for construction of eelgrass beds within tidal zones around the Jamaica Island Landfill. This pilot study would be conducted by the University of New Hampshire and would be used to determine whether this innovative alternative is feasible.

NEXT ACTION - Awaiting funding to develop workplan.

L. FEDERAL FACILITY AGREEMENT

PURPOSE - To establish the roles and responsibilities of the Navy, EPA and MEDEP and serve as an Interagency Agreement (IAG) for the completion of all necessary remedial actions at PNS. Includes development of a Site Management Plan to be used as the schedule for the IR Program.

STATUS - Development and negotiation of the Federal Facility Agreement (FFA) for PNS is scheduled to begin this fall.

NEXT ACTION - Establish logistic procedures for development and negotiation of FFA prior to actually beginning the process.

M. SITE MANAGEMENT PLAN

PURPOSE - Serves as the schedule for the IR Program. This schedule is reevaluated each year to adjust for the level of funding and progress in that year.

STATUS - The Navy, EPA and MEDEP are reviewing a Site Management Plan (SMP) developed for another Navy activity to determine the contents of the PNS SMP. We expect to begin development of the Site Management Plan as soon as possible.

NEXT ACTION - Develop outline and schedule for Site Management Plan.

N. RELATIVE RISK SITE EVALUATION

PURPOSE - This program was developed to allow the Department of Defense, in conjunction with regulatory agencies and local communities, to sequence work at Defense Environmental Restoration Program sites. The goal of the program is to ensure sites with higher risk, relative to other sites, are generally considered first in the priority setting process.

STATUS - All sites at PNS have been evaluated using the program. This evaluation was provided to the EPA and MEDEP for their review and input, June 14.

NEXT ACTION - Incorporate regulatory input and then provide presentation to the RAB on the Relative Risk Site Evaluation process and the results of the evaluation for the sites at PNS. Incorporate suggestions and comments of RAB members.