



DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, D.C. 20350-2000

IN REPLY REFER TO

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10 APR 00

From: Chairman, Naval Radiation Safety Committee  
To: Distribution

Subj: MINUTES OF NAVAL RADIATION SAFETY COMMITTEE MEETING  
FIRST QUARTER, CY-2000

Encl: (1) Quarterly Meeting Agenda  
(2) Executive Secretary Report  
(3) NRMP Action Summary  
(4) Inspection Summary  
(5) Depleted Uranium Penetrator Recovery Plan for Vieques

1. The Naval Radiation Safety Committee (NRSC) convened at 0835 on Friday, March 10, 2000 to discuss the agenda items provided in enclosure (1). The following individuals were in attendance:

|                   |                                    |
|-------------------|------------------------------------|
| RDML L. Baucom    | Acting Chairman, NRSC              |
| CAPT P. Blake     | BUMED                              |
| CDR D. Farrand    | NAVSEA 04N                         |
| CDR G. Higgins    | Executive Secretary, NRSC          |
| CDR S. Doremus    | OIC, NAVSEADET RASO                |
| CDR J. Pomerville | Recording Secretary, NRSC          |
| LCDR S. Wolff     | NEHC                               |
| LCDR P. Liotta    | HQMC(SD)                           |
| Mr. S. Frampton   | NAVSEA 08R                         |
| Mr. L. Reyes      | NRC Region II Administrator        |
| Mr. M. Fuller     | NRC Region II Navy Program Manager |
| Dr. D. B. Howe    | NRC Headquarters                   |

2. RDML Baucom opened the meeting by welcoming the Committee members and the NRC representatives to the NRSC Meeting, First Quarter, 2000. He reported that he will relieve RADM Granuzzo as Chairman, Naval Radiation Safety Committee on March 17, 2000.

a. Commander Higgins opened the discussion with a status report regarding the NRSC agenda items for the quarter. Two old agenda items were presented from the previous NRSC Meeting, of which one remains incomplete and the second reported as a closed item. There was one new agenda item introduced. The status of all three items is described in enclosure (2).

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FOURTH QUARTER, CY-1999

Admiral Baucom stressed the importance of ensuring that the root causes identified as a result of the investigation have been sufficiently addressed to prevent a reoccurrence.

- The second agenda item concerned the resumption of gamma radiography operations at Pearl Harbor Naval Shipyard (PHNSY) following the period of radiographer training and administrative reorganization. RASO has subsequently re-inspected the facility and evaluated radiography operations as satisfactory.

- The third agenda item concerned the RADIAC calibration facility in New London which encountered difficulties operating an AN/UDM-1A calibration device. Refer to enclosure (2).

- The fourth agenda item concerned a request for an amendment to the Navy Master Materials License (MML) to permit NRSC authorization of non-Navy employees to use Naval Radioactive Material Permitted materials under Navy supervision at Navy controlled facilities. Clarification was received from the NRC and determined an amendment was unnecessary and that the NRSC could approve prospective non-Navy users on a case by case basis.

b. Lieutenant Commander Wolff (NEHC), and Commander Doremus (RASO), discussed the status of Naval Radioactive Material Permit (NRMP) actions and inspections conducted during the quarter. NRMP actions for NEHC and RASO are listed as enclosures (3) and (4), respectively. The current number of NRMPs is 139, of these, 28 are managed by NEHC, with the balance, 111 managed by RASO.

c. Commander Farrand presented a briefing regarding the depleted uranium recovery plan for the Atlantic Fleet Weapons Training Facility, Vieques, Puerto Rico. His presentation is included as enclosure (5).

- Mr. Reyes of the NRC indicated that the NRC would continue to maintain close coordination with the Navy in the recovery of the remaining depleted uranium on the island of Vieques. Mr. Reyes stated that due to public concern on Vieques, the NRC was planning to perform environmental sampling in areas surrounding the Vieques training range. This would be coordinated with Navy, the Environmental Protection Agency (EPA) and the Centers for Disease Control (CDC). A specific time for this visit has not yet been determined.

- Rear Admiral Baucom mentioned that the presence of naturally occurring radioactive sources on the island is also a consideration when evaluating the environmental samples. Mr. Reyes agreed with RDML Baucom and stated that evaluation of any naturally occurring sources would be part of NRC's action plan regarding the visit. Mr. Reyes also stated that the NRC has the

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- Rear Admiral Baucom mentioned that the presence of naturally occurring radioactive sources on the island is also a consideration when evaluating the environmental samples. Mr. Reyes agreed with RDML Baucom and stated that evaluation of any naturally occurring sources would be part of NRC's action plan regarding the visit. Mr. Reyes also stated that the NRC has the expertise to evaluate the results and accuracy of any samples or surveys conducted.

d. Rear Admiral Baucom afforded the NRC an opportunity to discuss any issues of programmatic interest.

- Mr. Reyes stressed the importance of the timing and coordination of the depleted uranium recovery efforts on Vieques. Coordination will be necessary through the NRC, Navy, CDC, EPA and the Puerto Rican Department of Health.

- Commander Higgins mentioned that all recovery efforts are dependent upon the unimpeded access of the Navy to Vieques in consideration of the current situation with protestors at the facility.

- Mr. Fuller further discussed that the NRC is planning an environmental sampling trip to Vieques and that the NRC is still formulating these plans. Mr. Fuller also stated that the Navy's work plan previously submitted to NRC was sent to NRC Headquarters and that the technical review of this document has been completed. He reported that the NRC comments would be forwarded to the NRSC.

- CDR Farrand said that once the above mentioned guidance was received by the NRSC, the NRSC could incorporate the guidance provided into the Navy recovery plan.

- Mr. Reyes mentioned that if the intent of the Navy was to release the area for unrestricted use, then the Navy's release criteria must coincide with the NRC's release criteria.

- RDML Baucom mentioned that it would be unlikely that the affected area would be released for unrestricted use as it has been a firing range for some time and there are other hazards present that are associated with any firing range.

- Mr. Fuller reiterated that close coordination and review of any release criteria is necessary. He said that the NRC fully agrees that the Navy has the necessary expertise to properly perform detection surveys at the facility. Mr. Fuller stated

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questions from these academic institutions. The Navy appears to be a "trail blazer" once again.

- Dr. Howe mentioned that the final rule on 10 CFR Part 35 is expected very soon, most likely this summer. She stated that the rule would most likely not be in affect until early CY-1001.

- Rear Admiral Baucom thanked the NRC for their comments and that the NRSC will continue to focus it's energies on upholding the highest possible standards.

3. Rear Admiral Baucom adjourned the NRSC Meeting for the First Quarter CY-2000 at 0945. The date for the next meeting of the NRSC is tentatively scheduled for Wednesday, June 7, 2000 at 1030.



L. C. BAUCOM  
Rear Admiral, U.S. Navy

Copy to:  
NRSC Members  
COMNAVSEASYSKOM (08R)  
NRC Reg. II (ATTN: M. Fuller)  
NRC Headquarters (ATTN: Dr. D.B. Howe, Mail Stop 6H3)

**NAVAL RADIATION SAFETY COMMITTEE  
MEETING OF March 10, 2000**

**AGENDA**

- a. **Executive Secretary report on pending action items from NRSC Meeting, 4<sup>th</sup> Quarter, December 6, 1999.**

**1) Old Action Items:**

- **Expenditure of depleted uranium, Vieques, Puerto Rico.**
- **Gamma Radiography Inspection, Naval Shipyard Pearl Harbor, HI.**
- **MML Amendment Request, Authorized User Clarification**

**2) New Action Items:**

- **RADIAC Calibration Facility, New London, CT.**

- b. **Update on permitting and inspection actions - NEHC/RASO.**

- c. **Presentation Period-**

- 1) **CDR David Farrand – Naval Sea Systems Command (04N)  
Depleted Uranium Recovery Plan for Vieques, Puerto Rico.**

- d. **NRC Discussion Period - NRC Region II.**

**Future topics of interest for the NRSC meeting should be referred to CDR Pomerville at (703) 602-2582 or Fax: (703) 602-4786.**

**The next NRSC Meeting is proposed for June 7, 2000. The first Wednesday of the first week of each quarter.**

Enclosure (1)

**Naval Radiation Safety Committee Meeting**  
**1<sup>st</sup> Quarter - March 10, 2000**

1. N45 Opening Remarks-

Admiral Baucom welcomes NRC Region II and Headquarters Representatives.

|                    |                                       |
|--------------------|---------------------------------------|
| Mr. Luis Reyes     | NRC Region II, Regional Administrator |
| Mr. Michael Fuller | NRC Region II, Navy MML Manager       |
| Dr. D. B. Howe     | NRC Headquarters, MML Administrator   |

2. Executive Secretary NRSC welcomes visitors and introduces NRSC Members to Admiral Baucom, Incoming Chairman, Naval Radiation Safety Committee:

|                            |  |
|----------------------------|--|
| RDML Baucom                | Chairman, Naval Radiation Safety Committee   |
| <i>(Incoming Chairman)</i> | Director, Environmental Protection,<br>Safety and Occupational Health Division (N45) |

|            |   |
|------------|---|
| CAPT Blake | Bureau of Medicine and Surgery (Code MED-211)<br>Office of Undersea Medicine and Radiation Health |
|------------|---|

|             |  |
|-------------|--|
| CDR Farrand | Director, Radiological Controls Program Office<br>Commander, Naval Sea Systems Command (SEA-04N) |
|-------------|--|

|             |  |
|-------------|--|
| CDR Higgins | Executive Secretary, Naval Radiation Safety Committee<br>Head, Radiological Control and Health Branch (N455) |
|-------------|--|

|             |   |
|-------------|---|
| CDR Doremus | Officer in Charge, Radiological Affairs Support Office<br>Naval Weapons Station, Yorktown, Virginia |
|-------------|---|

|                |   |
|----------------|---|
| CDR Pomerville | Recording Secretary, Naval Radiation Safety Committee<br>Radiological Control and Health Branch (N455C) |
|----------------|---|

|            |  |
|------------|--|
| LCDR Wolff | Head, Radiation Health Team<br>Navy Environmental Health Center, Norfolk, VA |
|------------|--|

|             |  |
|-------------|--|
| LCDR Liotta | Health Physics Program Manager,<br>Safety Division, United States Marine Corps |
|-------------|--|

|  |   |
|--|---|
| Mr. Frampton<br><i>(Ad hoc Member)</i> | Radiation Health Program Manager<br>Naval Nuclear Power Program<br>Naval Sea Systems Command (NAVSEA-08R) |
|--|---|

3. Introductory remarks by RDML Baucom to the NRSC members and the NRC.

4. Members of the NRSC provide brief introductory remarks to RDML Baucom.

- Introductions and brief biographical background.
- Command and supporting role to the NRSC.

5. Executive Secretary begins the discussion at the discretion of the Chairman.

6. There are **2 Outstanding Action Items** reported at or carried forward from the previous NRSC Meeting, 4<sup>th</sup> Quarter 1999 (December 6, 1999). There is **1 New Action Item**.

**Outstanding Action Item #1.**

**Inadvertent Expenditure of Depleted Uranium Rounds at Vieques Range, PR.**

|                |  |
|----------------|--|
| 19FEB99        | 263 DU rounds inadvertently expended at Vieques Range, Puerto Rico.  |
| 05MAR99        | Discovery reported to NRSC. NRC notified by phone.   |
| 10MAR99        | Recovery team dispatched to Vieques 10 MAR99. 57 rounds recovered,   |
| 01APR99        | Initial written notification provided to NRC (30 Day Report).  |
| 01JUN99        | 1. Progress Report on recovery actions to date to NRC REG II.<br>2. NRC issues Preliminary Notification of Event or Unusual Occurrence.  |
| 02JUN99        | DU recovery operations briefed to NRSC and NRC at NRSC Meeting.  |
| 05AUG99        | Range refurbishment cancelled by AFWTF due to trespassers on range and potential injury of trespassers during EOD sweep/clearing.  |
| 19AUG99        | Navy issues NOV to US Navy and US Marine Corps for DU incident.  |
| 06DEC99        | Status Report briefed at NRSC Meeting, 4 <sup>th</sup> Quarter, 1999.<br>Recovery plan briefed to NRSC/NRC by OIC, NAVSEADET RASO.   |
| 10JAN00        | Work Survey Plan for Vieques released by N45 to NRC Region II.<br>Plan forwarded to NRC Headquarters for review/consideration.   |
| 28FEB00        | NRC Region II communicated with N455 and reported that NRC Headquarters had reviewed the Vieques Work Survey Plan and had prepared amplifying recommendations to supplement the RASO Plan. |
| 10MAR00        | Remarks by CDR Farrand regarding logistic preparations for return.   |
| <b>10MAR00</b> | <b>Action Item #1 Pending.</b>   |

**Outstanding Action Item #2.**

**Gamma Radiography Inspection at Naval Shipyard, Pearl Harbor, HI.**

|                |   |
|----------------|---|
| 16JUN99        | Radiography boundary violation at Naval Shipyard, Pearl Harbor.<br>- During critique of incident a Severity Level III NOV was self identified.<br>- Monitor failed to comply with dosimetry requirements of 20CFR34.47.   |
| 09AUG99        | NRSC issued Severity Level III NOV to Naval Shipyard, Pearl Harbor  |
| 17AUG99        | RASO radiography inspector preliminarily identifies 2 Level III violations.<br>CO/RSO initiates 30 Day Stand Down for Training.   |
| 08SEP99        | RASO Inspection Report released by NRSC. Three Level III NOVs.  |
| 01NOV99        | NRSC/RASO inspection team returned to PHNSY-<br>1. PHNSY determines that due to training deficiencies they could not conduct radiography operation as part of inspection.<br>2. RASO inspectors postponed inspection completion<br>3. RASO will return to PHNSY in 01/00 to re-inspect. |
| 20JAN00        | RASO concludes inspection of gamma radiography program.<br>Overall evaluation was SATISFACTORY. Reported to NRC by Letter.  |
| <b>10MAR00</b> | <b>Action Item #2 Closed.</b>   |

**New Action Item****RADIAC Calibration Facility, New London, CT.**

|         |  |
|---------|--|
| 06DEC99 | Technician at RADIAC Calibration Laboratory, Naval Submarine Support Facility, New London, CT., encountered difficulties operating AN/UDM-1A. Shielded gamma source presented no exposure potential. |
| 07DEC99 | On-site inspection by RADIAC calibration engineers from SPAWARSYSCEN, Charleston, SC. identified evidence of "unauthorized maintenance" to irradiator. Replacement of bolt and retaining cotter pin. |
| 09DEC99 | Calibration certification withdrawn by SPAWARSYSCEN, Charleston, suspending all further calibration procedures. NRSC notified by RASO.   |
| 13DEC99 | NSSF RSO commenced an investigation into the material deficiency. Concurrent training was conducted Northeast Region RADIAC Field Manager for verbatim compliance with procedures and NRMP.          |
| 14DEC99 | Repairs performed on AN/UDM-1A. Completed on 16DEC99.  |
| 16DEC99 | NRMP permitted operations with gamma source were suspended by NRSC via message to allow a stand-down for training.   |
| 12JAN00 | RASO / NRSC reviewed results of equipment repair, training, corrective actions taken, and re-certification audit conducted by SPAWARSYSCEN.  |
| 21JAN00 | Permission to resume operations per Chairman, NRSC.  |
| 10MAR00 | <b>Action Item Closed.</b>   |

**Master Materials License Amendment Request – Executive Secretary Comments Clarification of Authorized User Status.**

|         |  |
|---------|--|
| 28OCT99 | Amendment #12 requested NRSC ability to consider/authorize non-Navy employees permission to use NRMP materials under Navy supervision. |
| 03FEB00 | NRC Reg II Ltr: Amendment is unnecessary, NRC clarification provided.  |
| 10MAR00 | NRSC Executive Secretary comments. <b>Discussion Item Closure.</b>   |

**Updates on permitting and inspection actions:****NEHC – LCDR Wolff, MSC, USN****RASO – CDR Doremus, MSC, USN**

**Presentations:**      **Recovery of Depleted Uranium (DU) at Inner Range, Vieques,**  
**CDR Farrand, MSC, USN**  
**Director, Radiological Controls Program Office**  
**Commander, Naval Sea Systems Command (SEA-04N)**

**Nuclear Regulatory Commission's Report**  
**Mr. Luis Reyes, Regional Administrator, NRC Region II**  
**Mr. Fuller, NRC Region II**  
**Dr. Donna-Beth Howe, NRC Headquarters**

**Closing Remarks:** **Admiral Baucom, USN**  
**Chairman, Naval Radiation Safety Committee**

**Next Meeting:**      **Tentatively scheduled for June 7, 2000**



**NRMP ACTIONS/INSPECTIONS 1st QUARTER CY-2000**

**TECHNICAL SUPPORT CENTER = NAVY ENVIRONMENTAL HEALTH CENTER (NEHC)**

| <b>Permit Actions</b>                             | <b>New Issues</b> | <b>Terminations</b> | <b>Amendments</b> | <b>Renewals</b> | <b>Totals</b> |
|---|-------------------|---------------------|-------------------|-----------------|---------------|
| Permit Actions Carried Over from Previous Quarter | 0                 | 0                   | 2                 | 0               | 2             |
| Permit Actions Received During Quarter            | 0                 | 0                   | 5                 | 0               | 5             |
| Total Permit Actions "In House" During Quarter    | 0                 | 0                   | 7                 | 0               | 7             |
| Actions Signed Out by NRSC                        | 0                 | 0                   | 6                 | 0               | 6             |
| Quarterly Average Action Processing Time in Days  | N/A               | N/A                 | 22                | N/A             |               |
| Actions Exceeding NRSC Guidelines *1              | 0                 | 0                   | 0                 | 0               | 0             |
| Actions Pending at End of Quarter                 | 0                 | 0                   | 1                 | 0               | 1             |

| <b>Oldest Pending Permit Actions (Command)</b> | <b>NRMP Number</b> | <b>Days in House</b> | <b>Action</b> |
|--|--------------------|----------------------|---------------|
| Naval Hospital, Camp Pendleton, CA             | 04-68094-11NP      | 13                   | A             |
|  |                    |                      |               |
|  |                    |                      |               |
|  |                    |                      |               |

| <b>Permit Inspections</b>                                      | <b>Total</b> |
|--|--------------|
| Inspection Reports Carried over from Previous Quarter          | 0            |
| Inspections Conducted During Quarter                           | 0            |
| Total Inspection Reports "In House" During Quarter             | 0            |
| Inspection Reports Signed out by NRSC                          | 0            |
| Quarterly Average Inspection Report Processing Time in Days    | N/A          |
| Longest Inspection Report Processing Time This Quarter in Days | N/A          |
| Inspection Reports Exceeding NRSC Guidelines *2                | 0            |
| Inspection Reports Pending at End of Quarter                   | 0            |

\*1 (New Issues, Terminations, Amendments < 6 Months) (Renewals < 12 Months)

\*2 ( Satisfactory Inspection < 60 days, Unsatisfactory or Containing Level III Violation < 14 days)

**NRMP ACTIONS/INSPECTIONS 1st QUARTER CY-2000**

**TECHNICAL SUPPORT CENTER = RADIOLOGICAL AFFAIRS SUPPORT OFFICE (RASO)**

| <i>Permit Actions</i>                             | <b>New Issues</b> | <b>Terminations</b> | <b>Amendments</b> | <b>Renewals</b> | <b>Totals</b> |
|---|-------------------|---------------------|-------------------|-----------------|---------------|
| Permit Actions Carried Over from Previous Quarter | 0                 | 0                   | 1                 | 2               | 3             |
| Permit Actions Received During Quarter            | 3                 | 2                   | 12                | 2               | 19            |
| Total Permit Actions "In House" During Quarter    | 3*                | 2                   | 13**              | 4               | 22            |
| Actions Signed Out by NRSC                        | 1                 | 2                   | 11                | 3               | 17            |
| Quarterly Average Action Processing Time in Days  | 16                | 48                  | 36                | 89              |               |
| Actions Exceeding NRSC Guidelines *1              | 0                 | 0                   | 0                 | 0               | 0             |
| Actions Pending at End of Quarter                 | 1                 | 0                   | 1                 | 1               | 3             |

| <b>Oldest Pending Permit Actions (Command)</b> | <b>NRMP Number</b> | <b>Days in House</b> | <b>Action</b> |
|--|--------------------|----------------------|---------------|
| NAVSTA Rota, Spain                             | 77-62836-C1NP      | 234***               | R             |
| NAVAIRSYSCOM                                   | 19-00019-T4NP      | 39                   | N             |
| NAVSHIPYD & IMF Pearl Harbor                   | 53-32253-A1NP      | 8                    | A             |
|  |                    |                      |               |
|  |                    |                      |               |

| <i>Permit Inspections</i>                                      | <b>Total</b> |
|--|--------------|
| Inspection Reports Carried over from Previous Quarter          | 5            |
| Inspections Conducted During Quarter                           | 11           |
| Total Inspection Reports "In House" During Quarter             | 16           |
| Inspection Reports Signed out by NRSC                          | 13           |
| Quarterly Average Inspection Report Processing Time in Days    | 21           |
| Longest Inspection Report Processing Time This Quarter in Days | 36           |
| Inspection Reports Exceeding NRSC Guidelines *2                | 0            |
| Inspection Reports Pending at End of Quarter                   | 3            |

\*SWFPAC returned for total resubmission

\*\* NAVSEA T1NP returned for total resubmission

\*\*\* RASO completed 3 reviews awaiting final smooth

\*1 (New Issues, Terminations, Amendments < 6 Months) (Renewals < 12 Months)

\*2 ( Satisfactory Inspection < 60 days, Unsatisfactory or Containing Level III Violation < 14 days)

LISTING OF NRMP ACTIONS/INSPECTIONS  
1st QUARTER CY-2000

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|---|------|----------|------------|-----|-----------|------------|--------|
|---|------|----------|------------|-----|-----------|------------|--------|

**New Issues:**            RASO = 1    NEHC = 0

|   |           |   |    |       |    |      |       |
|---|-----------|---|----|-------|----|------|-------|
| 1 | 17 Dec 99 | Naval Mobile Construction Battalion FORTY, Port Hueneme, CA | 04 | 55448 | 11 | RASO | Issue |
|   |           |   |    |       |    |      |       |
|   |           |   |    |       |    |      |       |

**Terminations:**            RASO = 2    NEHC = 0

|   |           |   |    |       |    |      |             |
|---|-----------|---|----|-------|----|------|-------------|
| 1 | 17 Dec 99 | Naval Mobile Construction Battalion FORTY, Port Hueneme, CA | 04 | 55418 | 11 | RASO | Termination |
| 2 | 12 Jan 00 | Naval Construction Training Center, Gulfport, MS            | 23 | 65971 | 11 | RASO | Termination |
|   |           |   |    |       |    |      |             |
|   |           |   |    |       |    |      |             |

LISTING OF NRMP ACTIONS/INSPECTIONS  
1st QUARTER CY-2000

| #                                     | DATE      | ACTIVITY  | STATE CODE | UIC   | TYPE CODE | NEHC/ RASO | ACTION                     |
|---------------------------------------|-----------|---|------------|-------|-----------|------------|----------------------------|
| <b>Amendments: RASO = 11 NEHC = 6</b> |           |   |            |       |           |            |                            |
| 1                                     | 03 Jan 00 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA | 45         | 45650 | B1        | RASO       | Amendment                  |
| 2                                     | 12 Jan 00 | Naval Air Weapons Station, China Lake, CA   | 04         | 68937 | J1        | RASO       | Amendment                  |
| 3                                     | 12 Jan 00 | Space and Naval Warfare Systems Center, San Diego, CA                                   | 04         | 66001 | C1        | RASO       | Amendment                  |
| 4                                     | 11 Feb 00 | Naval Surface Warfare Center, Crane Division, Crane, IN                                 | 13         | 00164 | T1        | RASO       | Amendment                  |
| 5                                     | 14 Feb 00 | Space and Naval Warfare Systems Center, Charleston, SC                                  | 39         | 65236 | C1        | RASO       | Amendment                  |
| 6                                     | 22 Feb 00 | Space and Naval Warfare Systems Center, Charleston, SC                                  | 39         | 65236 | C2        | RASO       | Amendment                  |
| 7                                     | 22 Feb 00 | Naval Surface Warfare Center, Crane Division, Crane, IN                                 | 13         | 00164 | Q1        | RASO       | Amendment                  |
| 8                                     | 22 Feb 00 | 31st Naval Construction Regiment, Port Hueneme, CA                                      | 04         | 55752 | I1        | RASO       | Amendment                  |
| 9                                     | 12 Jan 00 | Naval Shipyard, Norfolk, VA   | 45         | 00181 | A1        | RASO       | Amendment (Corrected Copy) |
| 10                                    | 01 Mar 00 | U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP                     | 80         | 66120 | C1        | RASO       | Amendment                  |
| 11                                    | 01 Mar 00 | Naval Submarine Support Facility, New London, CT  | 06         | 68316 | C1        | RASO       | Amendment                  |
|                                       |           |   |            |       |           |            |                            |
| 1                                     | 06 Dec 99 | Naval Hospital, Jacksonville, FL  | 09         | 00232 | 11        | NEHC       | Amendment                  |
| 2                                     | 10 Dec 99 | Naval Medical Center, San Diego, CA   | 04         | 00259 | 11        | NEHC       | Amendment                  |
| 3                                     | 17 Dec 99 | Naval Hospital, Great Lakes, IL   | 12         | 00211 | 11        | NEHC       | Amendment                  |
| 4                                     | 19 Jan 00 | Naval Ambulatory Care Center, Groton, CT  | 06         | 61726 | 11        | NEHC       | Amendment                  |
| 5                                     | 01 Feb 00 | Naval Hospital, Camp Lejeune, NC  | 32         | 68093 | 11        | NEHC       | Amendment                  |
| 6                                     | 24 Feb 00 | Naval Hospital, Guam  | 56         | 68096 | 11        | NEHC       | Amendment                  |

**LISTING OF NRMP ACTIONS/INSPECTIONS**  
1st QUARTER CY-2000

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|---|------|----------|------------|-----|-----------|------------|--------|
|---|------|----------|------------|-----|-----------|------------|--------|

**Renewals:** RASO = 3 NEHC = 0

|   |           |   |    |       |    |      |         |
|---|-----------|---|----|-------|----|------|---------|
| 1 | 01 Mar 00 | Naval Air Weapons Station, China Lake, CA | 04 | 68937 | J1 | RASO | Renewal |
| 2 | 01 Mar 00 | Naval Air Weapons Station, China Lake, CA | 04 | 68937 | I1 | RASO | Renewal |
| 3 | 01 Mar 00 | Atlantic Ordnance Command, Yorktown, VA   | 45 | 00109 | C1 | RASO | Renewal |
|   |           |   |    |       |    |      |         |
|   |           |   |    |       |    |      |         |

**Inspections:** RASO = 13 NEHC = 0

|    |           |  |    |       |    |      |            |
|----|-----------|--|----|-------|----|------|------------|
| 1  | 03 Dec 99 | Naval Oceanographic Office, Stennis Space Center, MS                 | 23 | 62306 | B2 | RASO | Inspection |
| 2  | 03 Dec 99 | Naval Air Station Joint Reserve Base, New Orleans, LA                | 17 | 00206 | J1 | RASO | Inspection |
| 3  | 17 Dec 99 | Naval Air Warfare Center, Aircraft Division, Patuxent River, MD      | 19 | 00421 | W2 | RASO | Inspection |
| 4  | 17 Dec 99 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | A1 | RASO | Inspection |
| 5  | 12 Jan 00 | Naval Shipyard, Norfolk, VA  | 45 | 00181 | A1 | RASO | Inspection |
| 6  | 12 Jan 00 | Naval Surface Warfare Center, Carderock Division, West Bethesda, MD  | 19 | 61533 | E1 | RASO | Inspection |
| 7  | 12 Jan 00 | Naval Surface Warfare Center, Crane Division, Crane, IN              | 13 | 00164 | Q1 | RASO | Inspection |
| 8  | 12 Jan 00 | Naval Surface Warfare Center, Crane Division, Crane, IN              | 13 | 00164 | B1 | RASO | Inspection |
| 9  | 12 Jan 00 | Naval Surface Warfare Center, Crane Division, Crane, IN              | 13 | 00164 | W1 | RASO | Inspection |
| 10 | 20 Jan 00 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | A1 | RASO | Inspection |
| 11 | 01 Feb 00 | Public Works Center, Norfolk, VA                                     | 45 | 00187 | J1 | RASO | Inspection |
| 12 | 01 Feb 00 | Naval Research Laboratory, Washington, DC                            | 08 | 00173 | E1 | RASO | Inspection |
| 13 | 22 Feb 00 | Shore Intermediate Maintenance Activity, San Diego, CA               | 04 | 65918 | A1 | RASO | Inspection |

LISTING OF NRMP ACTIONS/INSPECTIONS  
1st QUARTER CY-2000

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|---|------|----------|------------|-----|-----------|------------|--------|
|---|------|----------|------------|-----|-----------|------------|--------|

QA Program Actions: RASO = 0 NEHC = 0

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

## CURRENT NRMPs 1st QUARTER CY-2000

| Type Code               | Description                                | Number    |
|-------------------------|--|-----------|
| 1                       | Nuclear Medicine (Limited Scope)           | 13        |
| 2                       | Nuclear Medicine (Broad Scope)             | 1         |
| 3                       | Teletherapy                                | 0         |
| 4                       | Research (Non-Human Use)                   | 7         |
| 5                       | Irradiators (< 10,000 Curies)              | 0         |
| 6                       | Navy Drug Screening Laboratories           | 3         |
| 7                       | Gas Chromatographs                         | 2         |
| 8                       | Special Nuclear Material SNM (< 200 grams) | 1         |
| 9                       | Other (Dosimeter Calibration)              | 1         |
| <b>Total NEHC NRMPs</b> |  | <b>28</b> |

| Type Code               | Description  | Number     |
|-------------------------|--|------------|
| A                       | Radiography  | 14         |
| B                       | General Industrial (Not Otherwise Coded)                 | 11         |
| C                       | Calibrator (> 100 Curies)                                | 18         |
| D                       | Environmental Applications                               | 0          |
| E                       | Type A Broad Scope                                       | 3          |
| F                       | Type B Broad Scope                                       | 1          |
| G                       | Type C Broad Scope                                       | 0          |
| H                       | Special Nuclear Material SNM (Unsealed, < Critical Mass) | 1          |
| I                       | Portable Gauges  | 12         |
| J                       | Analytical Measuring Instruments                         | 21         |
| K                       | Gas Chromatographs                                       | 1          |
| L                       | DU Munitions Testing (Outdoors/Indoors)                  | 4          |
| M                       | Subcritical Assemblies                                   | 1          |
| N                       | RTG Power Sources  | 2          |
| O                       | Not Used   | 0          |
| P                       | Fixed Gauges   | 1          |
| Q                       | Irradiators  | 1          |
| R                       | Buried Waste (NEESA)                                     | 1          |
| S                       | Source Material  | 3          |
| T                       | Radioactive Commodities Handling & Storage               | 11         |
| U                       | Not Used   | 0          |
| V                       | Special Nuclear Material SNM (< 200 grams)               | 1          |
| W                       | Research and Development                                 | 4          |
| X                       | Calibrator (< 100 Curies)                                | 0          |
| Y                       | Not Used   | 0          |
| Z                       | Not Used   | 0          |
| <b>Total RASO NRMPs</b> |  | <b>111</b> |

**GRAND TOTAL NRMPs** **139**

LISTING OF CURRENT NRMPs (SORTED BY INSPECTION TARGET DATE)  
 NRC SUGGESTED INSPECTION WINDOW: (FREQUENCY OF 1 to 3 YEARS +/- 25%)  
 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

| #  | ACTIVITY   | STATE | UIC   | TYPE CODE | USE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|--|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 1  | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, | 45    | 45650 | B         | 1        | RASO      | EXISTING           | 26 Sep 96       | 27 Sep 99   |             |                                   |
| 2  | Naval Air Systems Command, NAS, Patuxent River, MD                                   | 19    | 00019 | T         | 2        | RASO      | EXISTING           | 05 Dec 96       | 05 Dec 99   |             |                                   |
| 3  | Naval Air Systems Command, Patuxent River, MD  | 19    | 00019 | T         | 3        | RASO      | EXISTING           | 05 Dec 96       | 05 Dec 99   |             |                                   |
| 4  | Naval Weapons Station, Concord, CA   | 04    | 60036 | B         | 1        | RASO      | EXISTING           | 22 Jan 97       | 23 Jan 00   |             |                                   |
| 5  | Strategic Weapons Facility, Atlantic, Kings Bay, GA                                  | 10    | 68733 | B         | 1        | RASO      | EXISTING           | 25 Jan 97       | 25 Jan 00   |             |                                   |
| 6  | USS Frank Cable (AS-40)  | 59    | 45255 | C         | 1        | RASO      | EXISTING           | 31 Jan 97       | 31 Jan 00   |             |                                   |
| 7  | Marine Corps Logistics Base, Barstow, CA   | 04    | 38010 | C         | 1        | RASO      | EXISTING           | 06 Feb 97       | 06 Feb 00   |             |                                   |
| 8  | Service School Command, Great Lakes, IL  | 12    | 0580A | C         | 1        | RASO      | EXISTING           | 12 Feb 97       | 12 Feb 00   |             |                                   |
| 9  | Service School Command, Great Lakes, IL  | 12    | 0580A | A         | 1        | RASO      | EXISTING           | 18 Feb 99       | 18 Feb 00   |             |                                   |
| 10 | Navy Mobile Construction Battalion SEVEN-FOUR  | 23    | 55488 | I         | 1        | RASO      | EXISTING           | 15 Mar 95       | 14 Mar 00   |             |                                   |
| 11 | USS Emory S. Land (AS-39)  | 59    | 20635 | A         | 1        | RASO      | EXISTING           | 16 Mar 99       | 16 Mar 00   |             |                                   |
| 12 | USS Frank Cable (AS-40)  | 59    | 45255 | A         | 1        | RASO      | EXISTING           | 29 Mar 99       | 28 Mar 00   |             |                                   |
| 13 | Naval Hospital, Guam   | 56    | 68096 | 1         | 1        | NEHC      | EXISTING           | 08 Apr 97       | 08 Apr 00   |             |                                   |
| 14 | Trident Refit Facility, Kings Bay, GA  | 10    | 44466 | A         | 1        | RASO      | EXISTING           | 12 Apr 99       | 11 Apr 00   |             |                                   |
| 15 | Shore Intermediate Maintenance Activity, Norfolk, VA                                 | 45    | 32770 | A         | 1        | RASO      | EXISTING           | 20 Apr 99       | 19 Apr 00   |             |                                   |
| 16 | Navy EOD Technical Center, Indian Head, MD   | 19    | 0464A | T         | 1        | RASO      | EXISTING           | 29 Apr 97       | 29 Apr 00   |             |                                   |
| 17 | Naval Support Station, Mechanicsburg, PA   | 37    | 32414 | J         | 1        | RASO      | EXISTING           | 03 May 94       | 02 May 00   |             |                                   |
| 18 | Naval Medical Research Unit #2, Jakarta, Indonesia                                   | 62    | 30851 | 4         | 1        | NEHC      | EXISTING           | 10 May 97       | 09 May 00   |             |                                   |
| 19 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA                        | 45    | 00178 | B         | 1        | RASO      | EXISTING           | 14 May 97       | 13 May 00   |             |                                   |
| 20 | Director, Strategic Systems Programs, Arlington, VA                                  | 45    | 00030 | T         | 1        | RASO      | EXISTING           | 22 May 97       | 22 May 00   |             |                                   |
| 21 | Navy EOD Technical Center, Indian Head, MD   | 19    | 0464A | A         | 1        | RASO      | EXISTING           | 24 May 99       | 23 May 00   |             |                                   |
| 22 | Naval Undersea Warfare Center Division, Keyport, WA                                  | 46    | 00253 | A         | 1        | RASO      | EXISTING           | 26 May 99       | 25 May 00   |             |                                   |
| 23 | Naval Hospital, Camp Lejeune, NC   | 32    | 68093 | 1         | 1        | NEHC      | EXISTING           | 28 May 97       | 28 May 00   |             |                                   |
| 24 | Naval Ordnance Center, Pacific Division, Fallbrook Detachment, Fallbrook, CA         | 04    | 00396 | L         | 1        | RASO      | EXISTING           | 08 Jun 95       | 08 Jun 00   |             |                                   |
| 25 | Marine Corps Logistics Base, Albany, GA  | 10    | 67004 | W         | 1        | RASO      | EXISTING           | 10 Jul 97       | 09 Jul 00   |             |                                   |
| 26 | Naval Hospital, Groton, CT   | 06    | 61726 | 1         | 1        | NEHC      | EXISTING           | 23 Jul 97       | 23 Jul 00   |             |                                   |



LISTING OF CURRENT NRMPs (SORTED BY INSPECTION TARGET DATE)  
 NRC SUGGESTED INSPECTION WINDOW: (FREQUENCY OF 1 to 3 YEARS +/- 25%)  
 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

| #  | ACTIVITY  | STATE | UIC   | TYPE CODE | USE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (1) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|---|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 27 | Naval Hospital, Newport, RI   | 38    | 68086 | 1         | 1        | NEHC      | EXISTING           | 25 Jul 97       | 25 Jul 00   |             |                                   |
| 28 | Naval Medical Research Center, Bethesda, MD   | 19    | 32398 | 4         | 1        | NEHC      | EXISTING           | 30 Jul 97       | 29 Jul 00   |             |                                   |
| 29 | Naval Submarine Support Facility, New London, CT                                      | 06    | 68316 | A         | 1        | RASO      | EXISTING           | 11 Aug 99       | 10 Aug 00   |             |                                   |
| 30 | Naval Shipyard, Portsmouth, NH  | 28    | 00102 | A         | 1        | RASO      | EXISTING           | 12 Aug 99       | 11 Aug 00   |             |                                   |
| 31 | Naval Aerospace Medical Research Laboratory, Pensacola, FL                            | 09    | 66452 | 4         | 1        | NEHC      | EXISTING           | 18 Aug 97       | 17 Aug 00   |             |                                   |
| 32 | Puget Sound Naval Shipyard, Bremerton, WA   | 46    | 00251 | A         | 1        | RASO      | EXISTING           | 24 Aug 99       | 23 Aug 00   |             |                                   |
| 33 | Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA            | 46    | 68438 | A         | 1        | RASO      | EXISTING           | 26 Aug 99       | 25 Aug 00   |             |                                   |
| 34 | Naval Medical Research Unit #3, Cairo, Egypt  | 61    | 61751 | 4         | 1        | NEHC      | EXISTING           | 10 Sep 97       | 09 Sep 00   |             |                                   |
| 35 | Space and Naval Warfare Systems Center, San Diego, CA                                 | 04    | 66001 | E         | 1        | RASO      | EXISTING           | 16 Sep 98       | 15 Sep 00   |             |                                   |
| 36 | Naval Aviation Depot, Cherry Point, NC  | 32    | 65923 | S         | 1        | RASO      | EXISTING           | 17 Sep 97       | 17 Sep 00   |             |                                   |
| 37 | Indian Head Division, Naval Surface Warfare Center, Yorktown Detachment, Yorktown, VA | 45    | 47652 | J         | 1        | RASO      | EXISTING           | 13 Oct 94       | 12 Oct 00   |             |                                   |
| 38 | Naval Medical Research Center, Detachment-Toxicology (NMRC/TD), Wright-Patterson AFB, | 34    | 41817 | 4         | 1        | NEHC      | EXISTING           | 22 Oct 97       | 21 Oct 00   |             |                                   |
| 39 | Naval Weapons Station, Concord, CA  | 04    | 60036 | L         | 1        | RASO      | EXISTING           | 26 Oct 95       | 26 Oct 00   |             |                                   |
| 40 | Marine Corps Logistics Base, Albany, GA   | 10    | 67004 | T         | 1        | RASO      | EXISTING           | 04 Nov 97       | 04 Nov 00   |             |                                   |
| 41 | Naval Shipyard, Portsmouth, NH  | 28    | 00102 | C         | 1        | RASO      | EXISTING           | 20 Nov 97       | 19 Nov 00   |             |                                   |
| 42 | Atlantic Ordnance Command, Yorktown, VA   | 45    | 00109 | C         | 1        | RASO      | EXISTING           | 21 Nov 97       | 20 Nov 00   |             |                                   |
| 43 | Naval Shipyard, Norfolk, VA   | 45    | 00181 | A         | 1        | RASO      | EXISTING           | 03 Dec 99       | 02 Dec 00   |             |                                   |
| 44 | Naval Medical Center, San Diego, CA   | 04    | 00259 | 1         | 1        | NEHC      | EXISTING           | 03 Dec 97       | 03 Dec 00   |             |                                   |
| 45 | Public Works Center, Pensacola, FL  | 09    | 65114 | J         | 1        | RASO      | EXISTING           | 05 Dec 94       | 04 Dec 00   |             |                                   |
| 46 | Naval Hospital, Great Lakes, IL   | 12    | 00211 | 1         | 1        | NEHC      | EXISTING           | 12 Jan 98       | 12 Jan 01   |             |                                   |
| 47 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI                  | 53    | 32253 | A         | 1        | RASO      | EXISTING           | 14 Jan 00       | 14 Jan 01   |             |                                   |
| 48 | Navy Drug Screening Laboratory, Great Lakes, IL                                       | 12    | 68849 | 6         | 1        | NEHC      | EXISTING           | 14 Jan 98       | 14 Jan 01   |             |                                   |
| 49 | Naval Medical Research Center Detachment, Lima, Peru                                  | 87    | 44852 | 4         | 1        | NEHC      | EXISTING           | 28 Jan 98       | 27 Jan 01   |             |                                   |
| 50 | Naval Hospital, Okinawa, Japan  | 63    | 68470 | 1         | 1        | NEHC      | EXISTING           | 28 Jan 98       | 28 Jan 01   |             |                                   |
| 51 | Shore Intermediate Maintenance Activity, San Diego, CA                                | 04    | 65918 | A         | 1        | RASO      | EXISTING           | 01 Feb 00       | 31 Jan 01   |             |                                   |
| 52 | US Naval Academy, Annapolis, MD   | 19    | 00161 | M         | 1        | RASO      | EXISTING           | 15 Mar 96       | 15 Mar 01   |             |                                   |

LISTING OF CURRENT NRMPs (SORTED BY INSPECTION TARGET DATE)  
 NRC SUGGESTED INSPECTION WINDOW: (FREQUENCY OF 1 to 3 YEARS +/- 25%)  
 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

| #  | ACTIVITY  | STATE | UIC   | TYPE CODE | USE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|---|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 53 | US Naval Academy, Annapolis, MD   | 19    | 00161 | V         | 1        | RASO      | EXISTING           | 15 Mar 96       | 15 Mar 01   |             |                                   |
| 54 | Naval Postgraduate School, Monterey, CA   | 04    | 62271 | J         | 1        | RASO      | EXISTING           | 28 Mar 95       | 28 Mar 01   |             |                                   |
| 55 | Navy Drug Screening Laboratory, Jacksonville, FL                                      | 09    | 68850 | 6         | 1        | NEHC      | EXISTING           | 13 Apr 98       | 13 Apr 01   |             |                                   |
| 56 | Naval Air Weapons Station, China Lake, CA   | 04    | 60530 | B         | 1        | RASO      | EXISTING           | 08 May 98       | 08 May 01   |             |                                   |
| 57 | Public Works Center, Pearl Harbor, HI   | 53    | 62755 | J         | 1        | RASO      | EXISTING           | 19 May 95       | 19 May 01   |             |                                   |
| 58 | Naval Postgraduate School, Monterey, CA   | 04    | 62271 | H         | 1        | RASO      | EXISTING           | 16 Jun 99       | 16 Jun 01   |             |                                   |
| 59 | Marine Corps Logistics Base, Albany, GA   | 10    | 67004 | C         | 1        | RASO      | EXISTING           | 06 Aug 98       | 05 Aug 01   |             |                                   |
| 60 | Marine Corps Logistics Base, Albany, GA   | 10    | 67004 | T         | 2        | RASO      | EXISTING           | 06 Aug 98       | 06 Aug 01   |             |                                   |
| 61 | Marine Corps Logistics Base, Albany, GA   | 10    | 67004 | T         | 3        | RASO      | EXISTING           | 06 Aug 98       | 06 Aug 01   |             |                                   |
| 62 | Puget Sound Naval Shipyard, Bremerton, WA   | 46    | 00251 | C         | 1        | RASO      | EXISTING           | 28 Aug 98       | 27 Aug 01   |             |                                   |
| 63 | Naval Dosimetry Center, Bethesda, MD  | 19    | 48539 | 8         | 3        | NEHC      | EXISTING           | 15 Sep 98       | 14 Sep 01   |             |                                   |
| 64 | Naval Dosimetry Center, Bethesda, MD  | 19    | 48539 | 9         | 1        | NEHC      | EXISTING           | 15 Sep 98       | 14 Sep 01   |             |                                   |
| 65 | National Naval Dental Center, Bethesda, MD  | 19    | 0608A | 4         | 1        | NEHC      | EXISTING           | 16 Sep 98       | 15 Sep 01   |             |                                   |
| 66 | Space and Naval Warfare Systems Center, San Diego, CA                                 | 04    | 66001 | C         | 1        | RASO      | EXISTING           | 16 Sep 98       | 15 Sep 01   |             |                                   |
| 67 | Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division, North | 39    | 65236 | C         | 1        | RASO      | EXISTING           | 18 Sep 98       | 17 Sep 01   |             |                                   |
| 68 | Naval Surface Warfare Center, Indian Head Division, Indian Head, MD                   | 19    | 00174 | P         | 1        | RASO      | EXISTING           | 20 Sep 96       | 20 Sep 01   |             |                                   |
| 69 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA                         | 45    | 00178 | S         | 1        | RASO      | EXISTING           | 20 Oct 98       | 19 Oct 01   |             |                                   |
| 70 | Navy Mobile Construction Battalion FIVE, Port Hueneme, CA                             | 04    | 55115 | I         | 1        | RASO      | EXISTING           | 25 Oct 96       | 25 Oct 01   |             |                                   |
| 71 | Naval Air Weapons Station, China Lake, CA   | 04    | 68937 | I         | 1        | RASO      | EXISTING           | 28 Oct 96       | 28 Oct 01   |             |                                   |
| 72 | Naval Oceanographic Office, Stennis Space Center, MS                                  | 23    | 62306 | B         | 1        | RASO      | EXISTING           | 07 Dec 98       | 07 Dec 01   |             |                                   |
| 73 | Naval Mobile Construction Battalion SEVEN   | 23    | 55117 | I         | 1        | RASO      | EXISTING           | 09 Dec 96       | 09 Dec 01   |             |                                   |
| 74 | 31st Naval Construction Regiment, Port Hueneme, CA                                    | 04    | 55752 | I         | 1        | RASO      | EXISTING           | 12 Dec 96       | 12 Dec 01   |             |                                   |
| 75 | Naval Research Laboratory, Washington, DC   | 08    | 00173 | E         | 1        | RASO      | EXISTING           | 17 Dec 99       | 17 Dec 01   |             |                                   |
| 76 | Naval Surface Warfare Center, Carderock Division, West Bethesda, MD                   | 19    | 61533 | E         | 1        | RASO      | EXISTING           | 17 Dec 99       | 17 Dec 01   |             |                                   |
| 77 | Public Works Center, Guam   | 56    | 62395 | J         | 1        | RASO      | EXISTING           | 12 Jan 96       | 12 Jan 02   |             |                                   |
| 78 | Navy Public Works Center, Yokosuka, Japan   | 80    | 65115 | J         | 1        | RASO      | EXISTING           | 24 Jan 96       | 23 Jan 02   |             |                                   |

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 NRC SUGGESTED INSPECTION WINDOW: (FREQUENCY OF 1 to 3 YEARS +/- 25%)  
 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

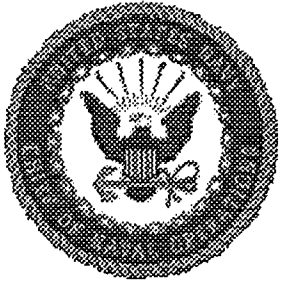
| #   | ACTIVITY  | STATE | LIC   | TYPE CODE | USE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|---|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 79  | Naval Hospital, Camp Pendleton, CA  | 04    | 68094 | 1         | 1        | NEHC      | EXISTING           | 26 Jan 99       | 26 Jan 02   |             |                                   |
| 80  | Navy Drug Screening Laboratory, San Diego, CA   | 04    | 68853 | 6         | 1        | NEHC      | EXISTING           | 28 Jan 99       | 28 Jan 02   |             |                                   |
| 81  | Naval Station Rota, Spain   | 77    | 62863 | C         | 1        | RASO      | EXISTING           | 04 Mar 99       | 03 Mar 02   |             |                                   |
| 82  | USS Emory S. Land (AS-39)   | 59    | 20635 | C         | 1        | RASO      | EXISTING           | 16 Mar 99       | 15 Mar 02   |             |                                   |
| 83  | Naval Hospital, Jacksonville, FL  | 09    | 00232 | 1         | 1        | NEHC      | EXISTING           | 24 Mar 99       | 24 Mar 02   |             |                                   |
| 84  | U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP                   | 80    | 66120 | C         | 1        | RASO      | EXISTING           | 26 Mar 99       | 25 Mar 02   |             |                                   |
| 85  | Material Readiness Battalion, 3D Force Service Support Group, FMF, Pacific            | 63    | 29021 | C         | 1        | RASO      | EXISTING           | 29 Mar 99       | 28 Mar 02   |             |                                   |
| 86  | Marine Corps Base, Camp Lejeune, NC   | 32    | 67001 | J         | 1        | RASO      | EXISTING           | 11 Apr 96       | 11 Apr 02   |             |                                   |
| 87  | Naval Air Weapons Station, China Lake, CA   | 04    | 68937 | L         | 1        | RASO      | EXISTING           | 15 Apr 97       | 15 Apr 02   |             |                                   |
| 88  | Naval Mobile Construction Battalion FORTY, Port Hueneme, CA                           | 04    | 55448 | I         | 1        | RASO      | EXISTING           | 15 May 97       | 15 May 02   |             |                                   |
| 89  | Navy EOD Technical Center, Indian Head, MD  | 19    | 0464A | W         | 1        | RASO      | EXISTING           | 24 May 99       | 24 May 02   |             |                                   |
| 90  | Naval Surface Warfare Center, Indian Head Division, Silver Spring, MD                 | 19    | 00174 | S         | 1        | RASO      | EXISTING           | 26 May 99       | 25 May 02   |             |                                   |
| 91  | Naval Undersea Warfare Center Division, Keyport, WA                                   | 46    | 00253 | B         | 1        | RASO      | EXISTING           | 26 May 99       | 26 May 02   |             |                                   |
| 92  | Naval Ocean Processing Facility, Whidbey Island, WA                                   | 46    | 68844 | B         | 1        | RASO      | EXISTING           | 27 May 99       | 26 May 02   |             |                                   |
| 93  | Naval Postgraduate School, Monterey, CA   | 04    | 62271 | F         | 1        | RASO      | EXISTING           | 16 Jun 99       | 15 Jun 02   |             |                                   |
| 94  | Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division, North | 39    | 65236 | C         | 2        | RASO      | EXISTING           | 16 Jul 99       | 15 Jul 02   |             |                                   |
| 95  | Naval Hospital, Charleston, SC  | 39    | 68084 | 1         | 1        | NEHC      | EXISTING           | 21 Jul 99       | 21 Jul 02   |             |                                   |
| 96  | Naval Sea Systems Command, Washington, DC   | 45    | 00024 | T         | 1        | RASO      | EXISTING           | 03 Aug 99       | 03 Aug 02   |             |                                   |
| 97  | US Naval Academy, Annapolis, MD   | 19    | 00161 | B         | 1        | RASO      | EXISTING           | 10 Aug 99       | 09 Aug 02   |             |                                   |
| 98  | Naval Submarine Support Facility, New London, CT                                      | 06    | 68316 | C         | 1        | RASO      | EXISTING           | 11 Aug 99       | 10 Aug 02   |             |                                   |
| 99  | Naval Supply Systems Command, Mechanicsburg, PA                                       | 37    | 00023 | T         | 2        | RASO      | EXISTING           | 10 Aug 99       | 10 Aug 02   |             |                                   |
| 100 | Naval Supply Systems Command, Mechanicsburg, PA                                       | 37    | 00023 | T         | 1        | RASO      | EXISTING           | 10 Aug 99       | 10 Aug 02   |             |                                   |
| 101 | Naval Hospital, Bremerton, WA   | 46    | 68095 | 1         | 1        | NEHC      | EXISTING           | 13 Aug 99       | 13 Aug 02   |             |                                   |
| 102 | Naval Hospital, Pensacola, FL   | 09    | 00203 | 1         | 1        | NEHC      | EXISTING           | 18 Aug 99       | 18 Aug 02   |             |                                   |
| 103 | Naval Undersea Warfare Center Division, Keyport, WA                                   | 46    | 00253 | J         | 1        | RASO      | EXISTING           | 22 Aug 96       | 22 Aug 02   |             |                                   |
| 104 | Naval Surface Warfare Center, Crane Division, Crane, IN                               | 13    | 00164 | C         | 1        | RASO      | EXISTING           | 27 Aug 99       | 26 Aug 02   |             |                                   |

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 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

| #   | ACTIVITY   | STATE | UIC   | TYPE CODE | USE CODE | NEHC RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|--|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 105 | Naval Surface Warfare Center, Crane Division, Crane, IN                              | 13    | 00164 | T         | 1        | RASO      | EXISTING           | 27 Aug 99       | 26 Aug 02   |             |                                   |
| 106 | Navy Mobile Construction Battalion ONE THIRTY-THREE                                  | 23    | 55451 | I         | 1        | RASO      | EXISTING           | 09 Sep 97       | 09 Sep 02   |             |                                   |
| 107 | 20th Naval Construction Battalion  | 23    | 55460 | I         | 1        | RASO      | EXISTING           | 10 Sep 97       | 10 Sep 02   |             |                                   |
| 108 | National Naval Medical Center, Bethesda, MD  | 19    | 00168 | 2         | 1        | NEHC      | EXISTING           | 23 Sep 99       | 23 Sep 02   |             |                                   |
| 109 | Naval Shipyard, Norfolk, VA  | 45    | 00181 | C         | 1        | RASO      | EXISTING           | 15 Oct 99       | 14 Oct 02   |             |                                   |
| 110 | Naval Medical Center, Portsmouth, VA   | 45    | 00183 | 1         | 1        | NEHC      | EXISTING           | 15 Oct 99       | 15 Oct 02   |             |                                   |
| 111 | Naval Air Weapons Station, China Lake, CA  | 04    | 68937 | J         | 1        | RASO      | EXISTING           | 28 Oct 96       | 28 Oct 02   |             |                                   |
| 112 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI                 | 53    | 32253 | C         | 1        | RASO      | EXISTING           | 05 Nov 99       | 04 Nov 02   |             |                                   |
| 113 | Navy Mobile Construction Battalion FOUR, Port Hueneme, CA                            | 04    | 55114 | I         | 1        | RASO      | EXISTING           | 07 Nov 97       | 07 Nov 02   |             |                                   |
| 114 | Naval Air Warfare Center, Aircraft Division, Patuxent River, MD                      | 19    | 00421 | W         | 2        | RASO      | EXISTING           | 16 Nov 99       | 15 Nov 02   |             |                                   |
| 115 | Naval Oceanographic Office, Stennis Space Center, MS                                 | 23    | 62306 | B         | 2        | RASO      | EXISTING           | 17 Nov 99       | 16 Nov 02   |             |                                   |
| 116 | Navy Mobile Construction Battalion ONE   | 23    | 55101 | I         | 1        | RASO      | EXISTING           | 24 Nov 97       | 24 Nov 02   |             |                                   |
| 117 | Naval Surface Warfare Center, Crane Division, Crane, IN                              | 13    | 00164 | B         | 1        | RASO      | EXISTING           | 03 Dec 99       | 02 Dec 02   |             |                                   |
| 118 | Naval Surface Warfare Center, Crane Division, Crane, IN                              | 13    | 00164 | Q         | 1        | RASO      | EXISTING           | 03 Dec 99       | 02 Dec 02   |             |                                   |
| 119 | Naval Surface Warfare Center, Crane Division, Crane, IN                              | 13    | 00164 | W         | 1        | RASO      | EXISTING           | 03 Dec 99       | 02 Dec 02   |             |                                   |
| 120 | 20th Naval Construction Regiment, Gulfport, MS                                       | 23    | 55460 | J         | 1        | RASO      | EXISTING           | 10 Dec 96       | 10 Dec 02   |             |                                   |
| 121 | Public Works Center, Washington Navy Yard, Washington, DC                            | 08    | 68925 | J         | 1        | RASO      | EXISTING           | 11 Dec 96       | 11 Dec 02   |             |                                   |
| 122 | Navy Mobile Construction Battalion THREE, Port Hueneme, CA                           | 04    | 55103 | I         | 1        | RASO      | EXISTING           | 12 Feb 98       | 12 Feb 03   |             |                                   |
| 123 | Naval Construction Battalion Center, Port Hueneme, CA                                | 04    | 62583 | R         | 1        | RASO      | EXISTING           | 01 May 96       | 02 May 03   |             |                                   |
| 124 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, | 45    | 45650 | N         | 1        | RASO      | EXISTING           | 26 Sep 96       | 26 Sep 03   |             |                                   |
| 125 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, | 45    | 45650 | N         | 2        | RASO      | EXISTING           | 26 Sep 96       | 26 Sep 03   |             |                                   |
| 126 | Construction Battalion Unit 406, Naval Air Station, Lemoore, CA                      | 04    | 66650 | I         | 1        | RASO      | EXISTING           | 07 Oct 98       | 07 Oct 03   |             |                                   |
| 127 | Marine Corps Air Station, Yuma, AZ   | 03    | 62974 | J         | 1        | RASO      | EXISTING           | 04 Dec 97       | 04 Dec 03   |             |                                   |
| 128 | Naval Air Warfare Center, Aircraft Division, Patuxent River, MD                      | 19    | 00421 | J         | 1        | RASO      | EXISTING           | 19 Mar 98       | 18 Mar 04   |             |                                   |
| 129 | Naval Surface Warfare Center, Crane Division, Crane, IN                              | 13    | 00164 | L         | 1        | RASO      | EXISTING           | 27 Aug 99       | 26 Aug 04   |             |                                   |
| 130 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA                        | 45    | 00178 | J         | 1        | RASO      | EXISTING           | 20 Oct 98       | 19 Oct 04   |             |                                   |

LISTING OF CURRENT NRMPs (SORTED BY INSPECTION TARGET DATE)  
 NRC SUGGESTED INSPECTION WINDOW: (FREQUENCY OF 1 to 3 YEARS +/- 25%)  
 (FREQUENCY OF 5 YEARS OR GREATER +/- 1 YEAR)

| #   | ACTIVITY   | STATE | UIC   | TYPE CODE | USE CODE | NEHC RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|--|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 131 | Navy Environmental and Preventive Medicine Unit #5, San Diego, CA          | 04    | 0546A | 7         | 2        | NEHC      | EXISTING           | 01 Dec 97       | 30 Nov 04   |             |                                   |
| 132 | Navy Environmental Preventive Medicine Unit #6, Pearl Harbor, HI           | 53    | 0545A | 7         | 1        | NEHC      | EXISTING           | 26 Jan 98       | 26 Jan 05   |             |                                   |
| 133 | Naval Facilities Engineering Service Center, Port Hueneme, CA              | 04    | 0537A | K         | 1        | RASO      | EXISTING           | 06 May 98       | 06 May 05   |             |                                   |
| 134 | Public Works Center, San Diego, CA   | 04    | 63387 | J         | 1        | RASO      | EXISTING           | 24 Jun 99       | 23 Jun 05   |             |                                   |
| 135 | Marine Corps Base Hawaii, Kaneohe Bay, HI                                  | 53    | 00334 | J         | 1        | RASO      | EXISTING           | 16 Aug 99       | 15 Aug 05   |             |                                   |
| 136 | Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA | 46    | 68438 | J         | 1        | RASO      | EXISTING           | 26 Aug 99       | 25 Aug 05   |             |                                   |
| 137 | Naval Air Station, Key West, FL  | 09    | 00213 | J         | 1        | RASO      | EXISTING           | 23 Sep 99       | 22 Sep 05   |             |                                   |
| 138 | Naval Air Station Joint Reserve Base, New Orleans, LA                      | 17    | 00206 | J         | 1        | RASO      | EXISTING           | 16 Nov 99       | 15 Nov 05   |             |                                   |
| 139 | Public Works Center, Norfolk, VA   | 45    | 00187 | J         | 1        | RASO      | EXISTING           | 14 Jan 00       | 13 Jan 06   |             |                                   |



Recovery of Depleted Uranium (DU)  
At Inner Training Range,  
Vieques, Puerto Rico

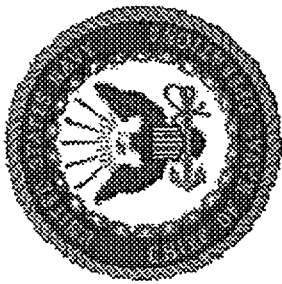
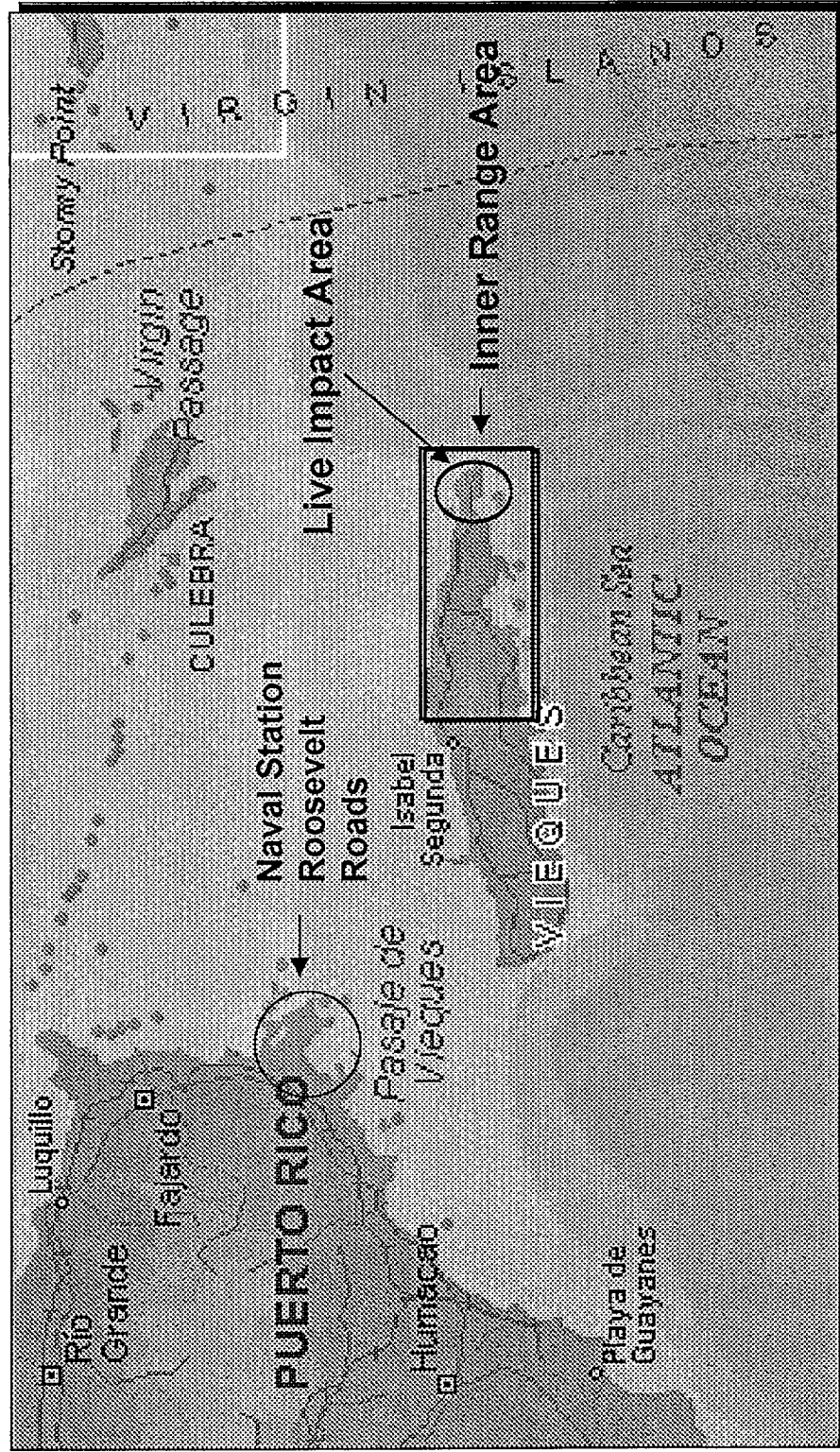
CDR D. Farrand, MSC, USN  
(NAVSEA-04N)



## Background

- February 19, 1999.
- Two U.S. Marine Corps A/V-8 Harriers inadvertently fired 263 rounds of 25mm depleted uranium (DU) ammunition.
- Live Impact Area (LIA), Atlantic Fleet Weapons Training Facility (AFWTF) on the island of Vieques, Puerto Rico.
- NRSC and NRC Notified on March 5, 1999.

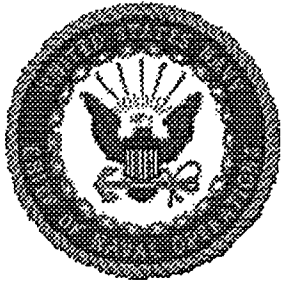
# Inner Training Range, Vieques





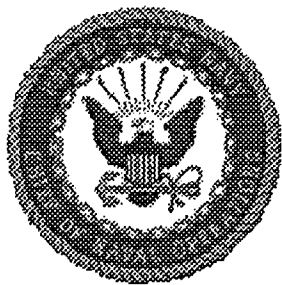
# North Convoy Area

March 1999



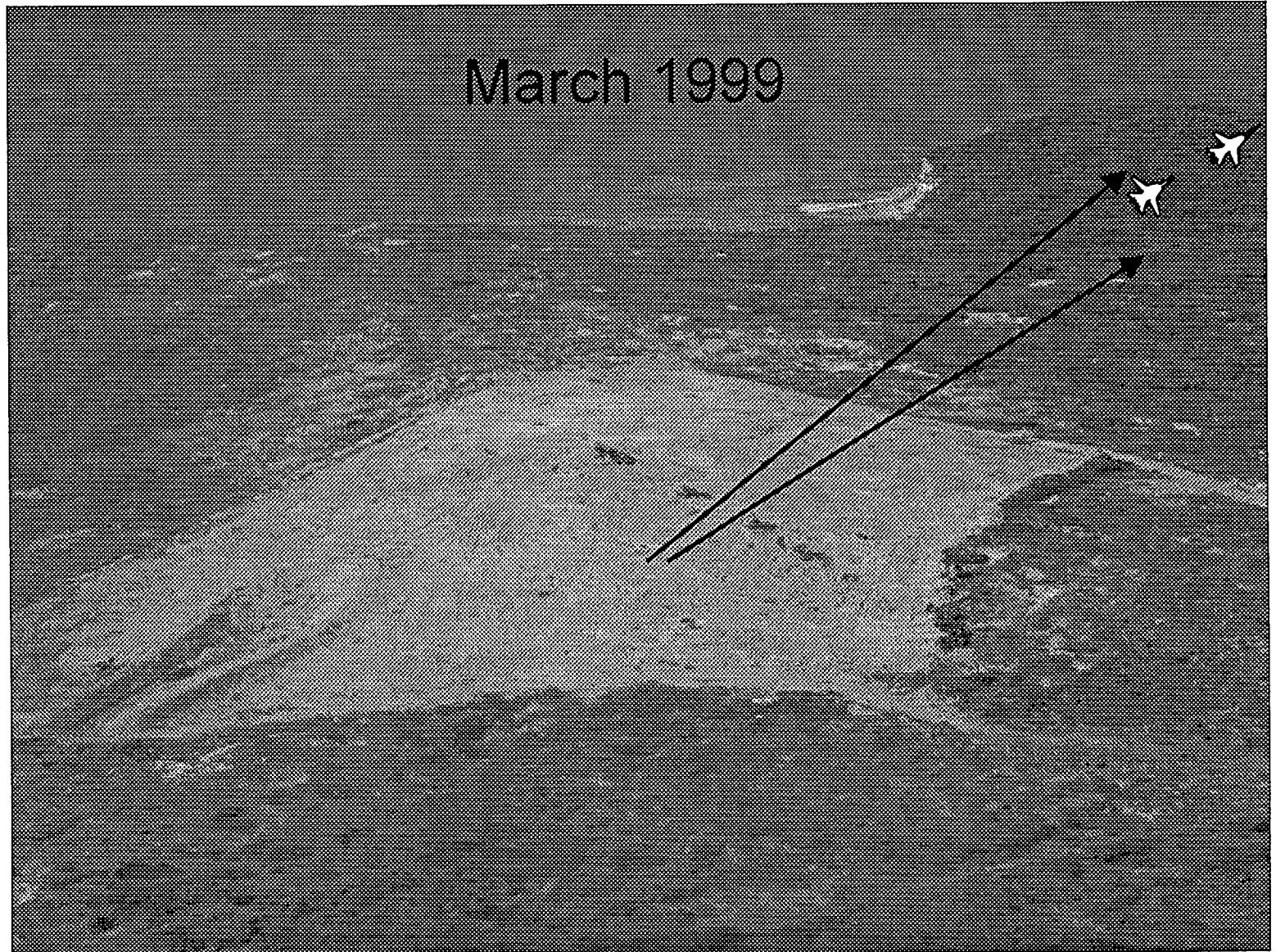
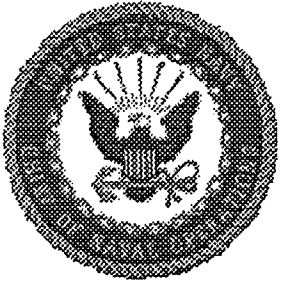
# North Convoy Area

March 1999



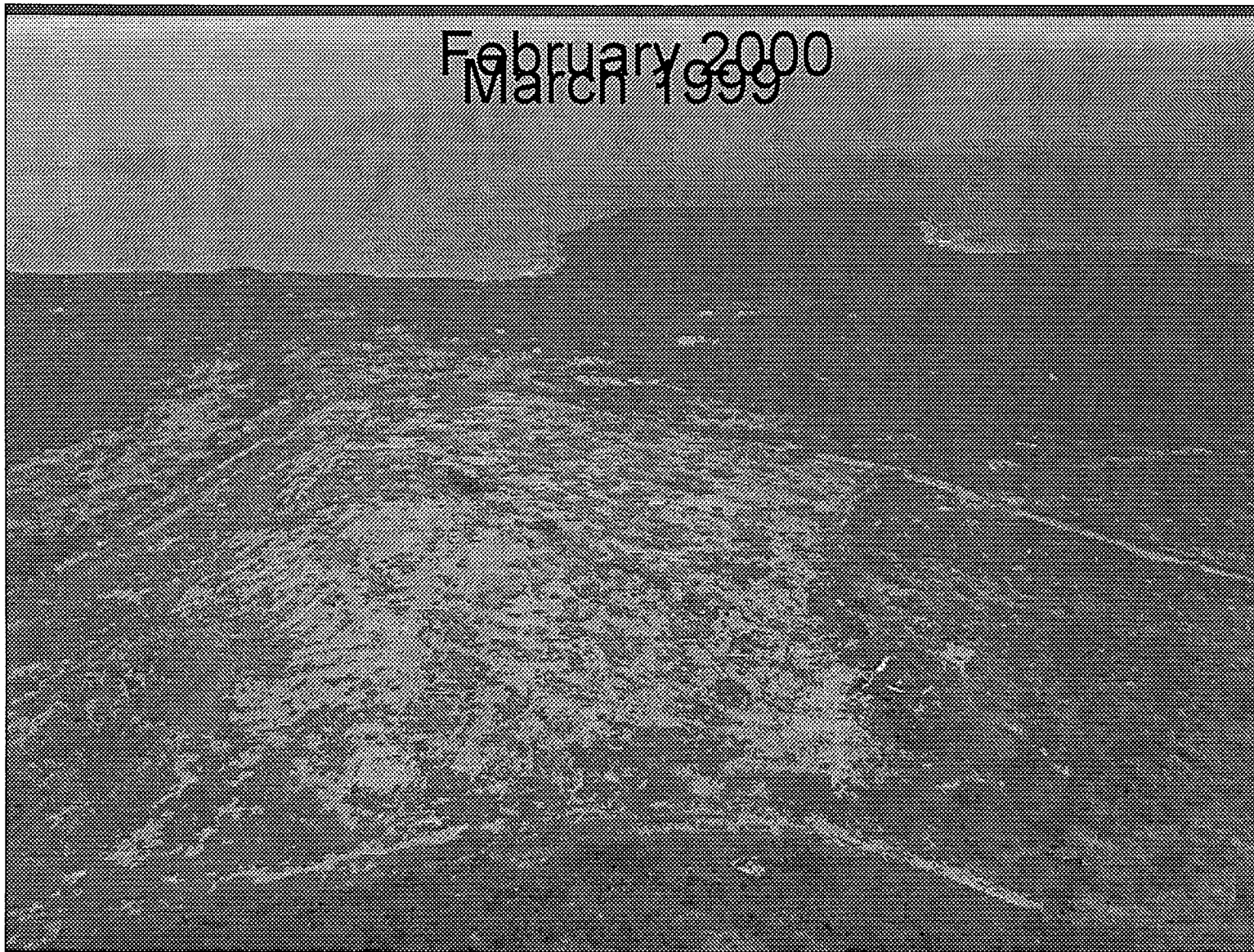


# North Convoy Area



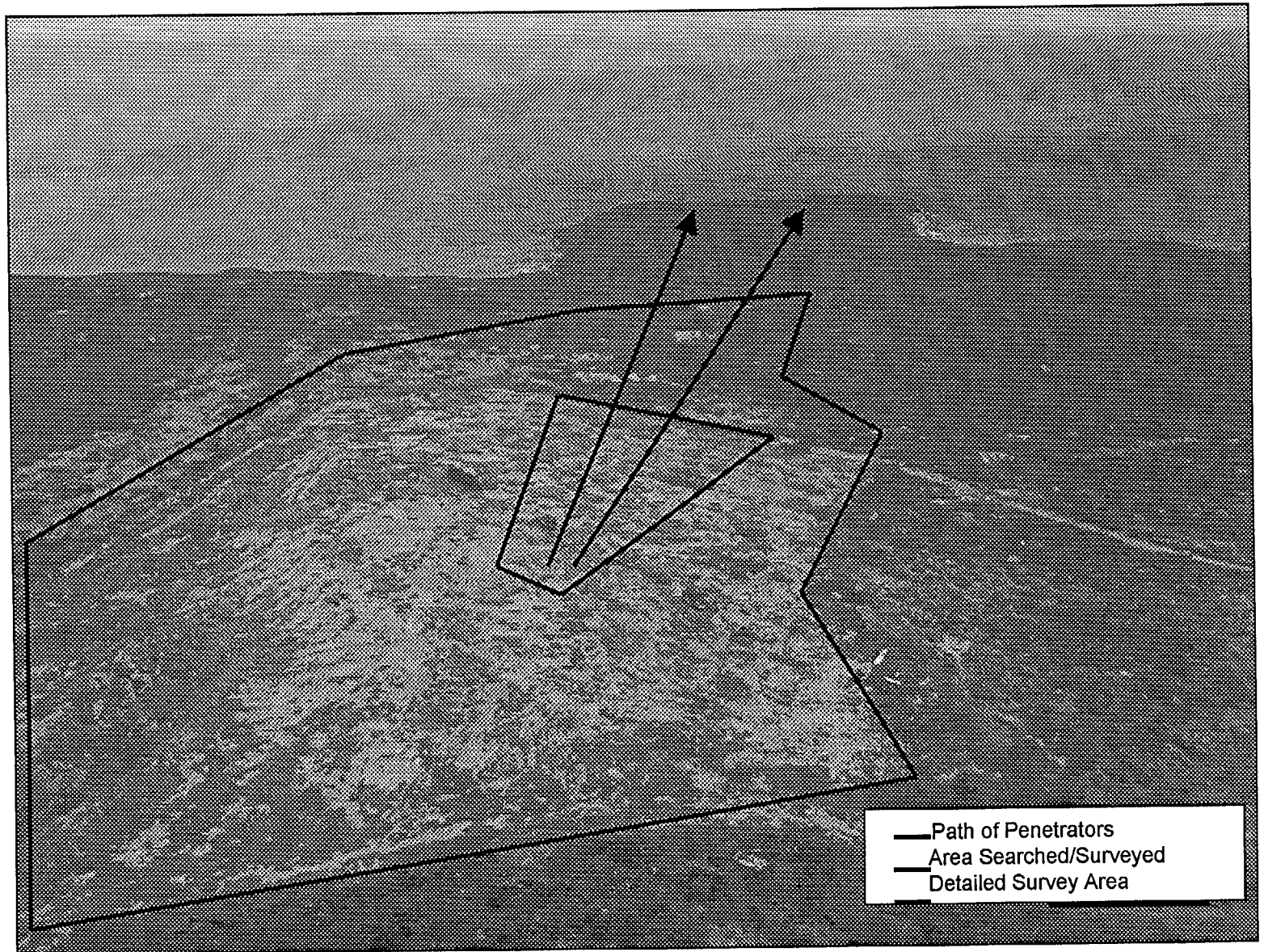
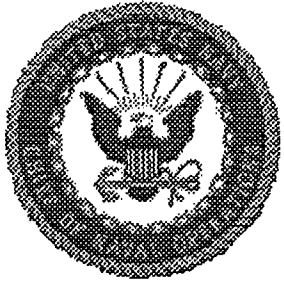
# North Convoy Area

February 2000  
March 1999



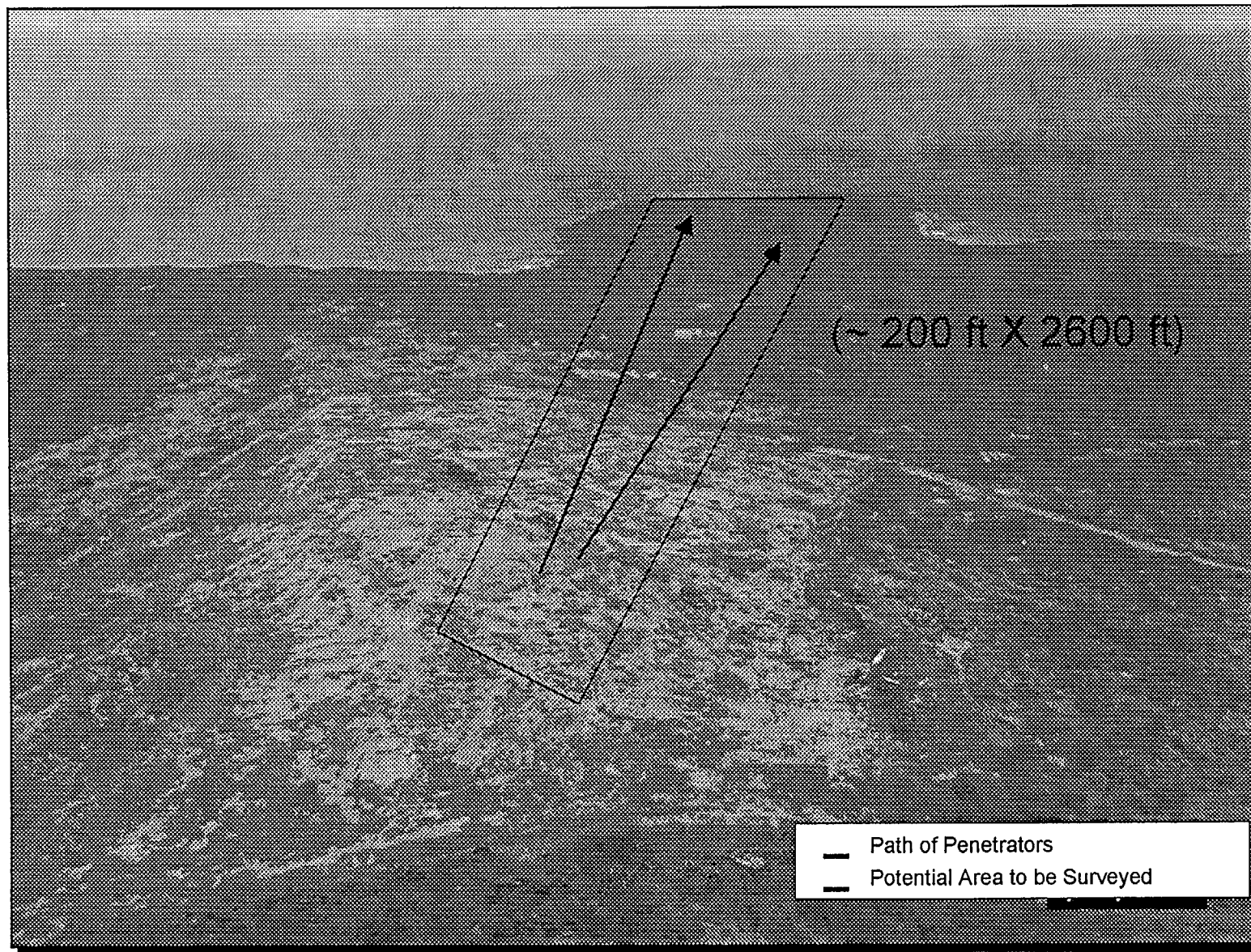


# Previous Survey - North Convoy Area



— Path of Penetrators  
- - - Area Searched/Surveyed  
— Detailed Survey Area

# Affected Area - North Convoy



— Path of Penetrators  
- - - Potential Area to be Surveyed



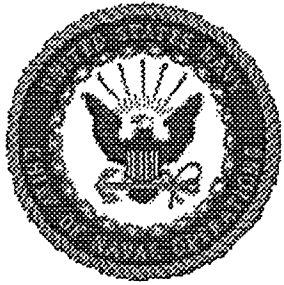
## Logistics Meeting

- 24 Feb 00 - AFWTF (NSRR) Hosted
- Formalized Requirements & Procedures
  - Equipment & Storage
  - Waste Storage
  - Personnel
  - Training
  - Brush Removal
- Follow Normal Range Refurbishment Protocols - add Survey Requirements



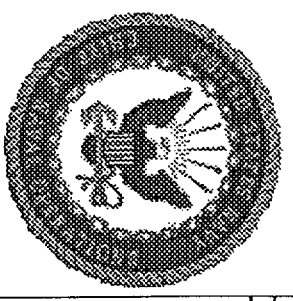
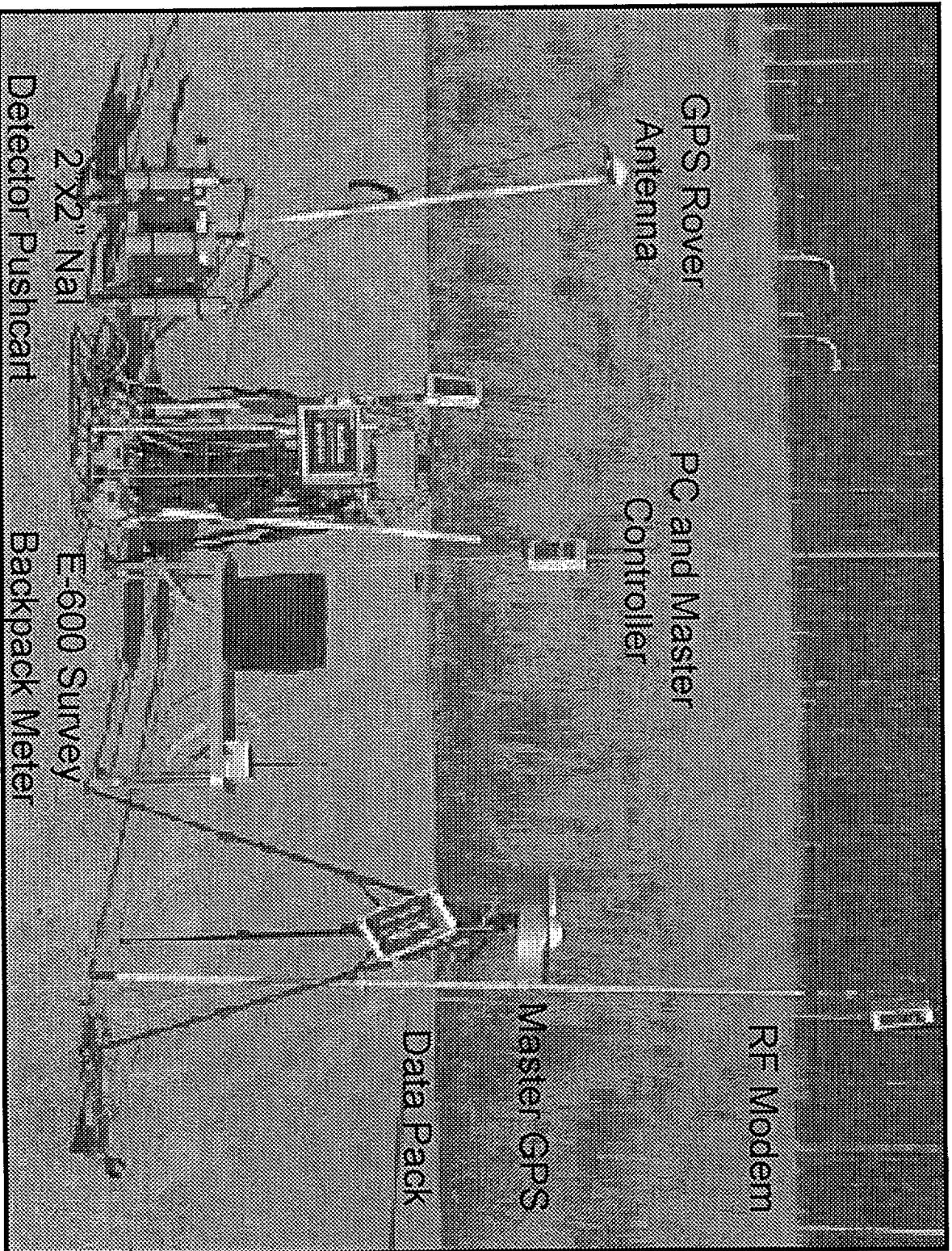
## Brush Removal

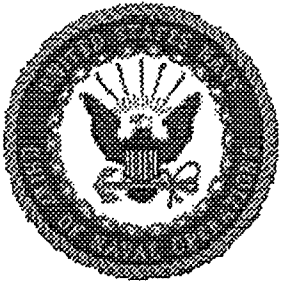
- Brush Hog with Articulated Arm
- Grass Trimmers
- Machetes





## Radiological Scan Survey Equipment

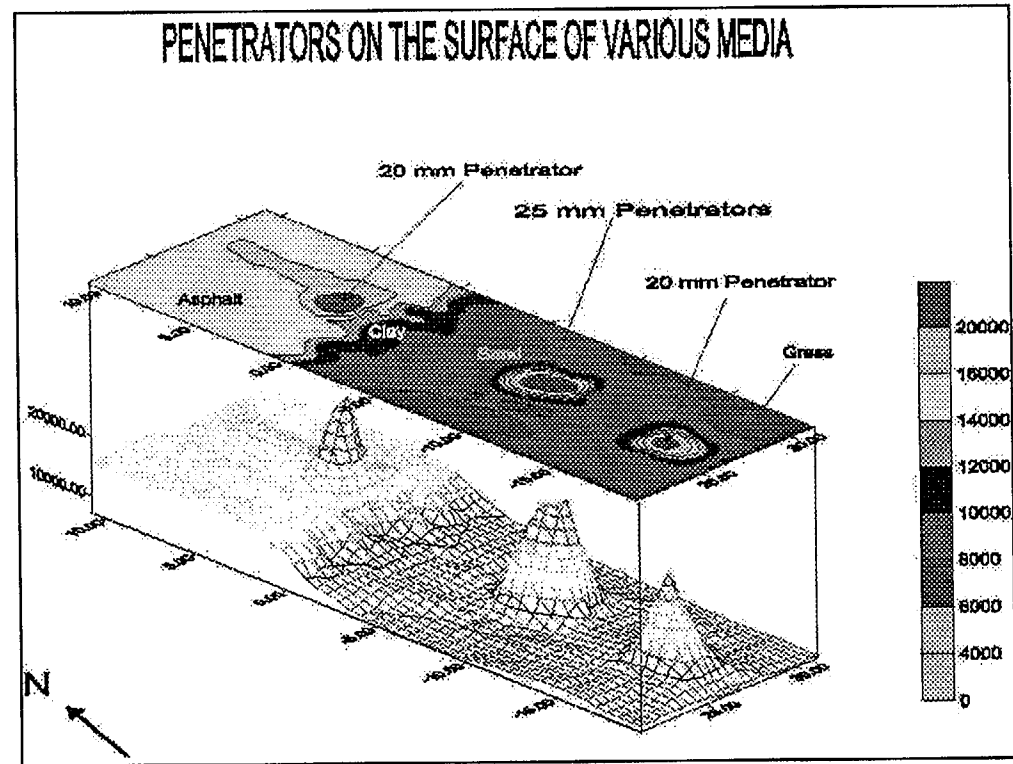
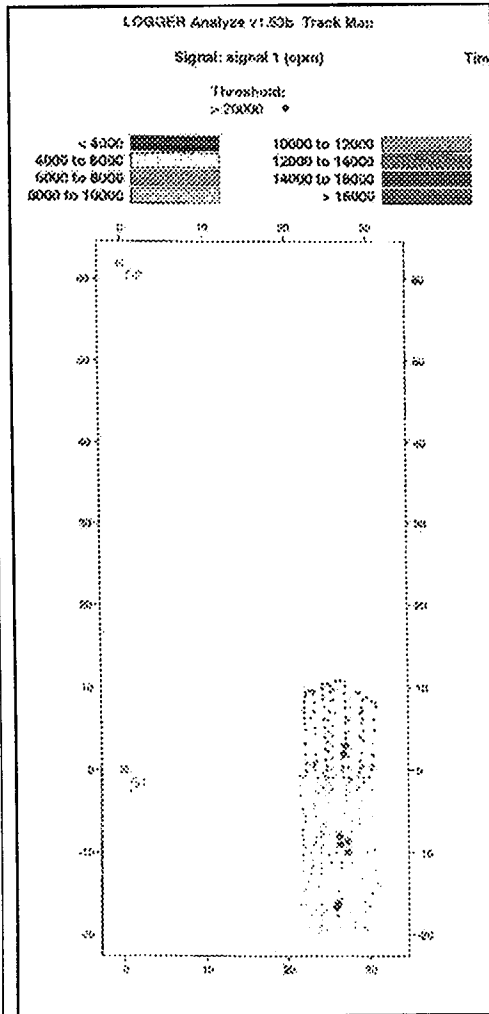
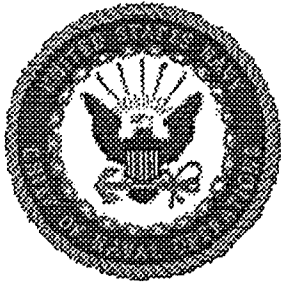




## Radiological Scan Survey Equipment

- Scan Survey Equipment Combines:
  - Global Positioning System (GPS)  
Accurate to Within 6 to 18 Inches
  - NAVTRACK 2200  
Data Management System
  - Eberline E-600 Survey Meters and  
SPA-3, NaI 2"x2" Detectors

# Graphical Data Analysis





## Recovery & Survey Procedures

- EOD Safe Range
- Survey Immediate Area Before Blow-Up In Place (BIP) UXO
- Scoping Survey to Refine Affected Area
- Remove any Penetrators Found
- Cut Vegetation to Less Than 4 Inches High



## Recovery & Survey Procedures

- Detailed Survey - USRADS (GPS)
- Analyze Results and Investigate Suspect Areas
- Remove any Penetrators Found
- Re-survey Area
- Prepare and Submit Report to NRC