



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
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24 Sep 99

From: Chairman, Naval Radiation Safety Committee
To: Distribution

Subj: MINUTES OF NAVAL RADIATION SAFETY COMMITTEE MEETING
THIRD QUARTER, CY-1999

Encl: (1) Quarterly Meeting Agenda
(2) Executive Secretary Report
(3) NRMP Action Summary
(4) Inspection Summary
(5) Radiation Health Program Overview for CY-98

1. The Naval Radiation Safety Committee (NRSC) convened at 1045 on Friday, September 10, 1999, to discuss agenda items provided in enclosure (1). The following individuals were in attendance:

| | |
|------------------|---------------------------|
| RADM A. Granuzzo | Chairman, NRSC |
| CDR G. Higgins | Executive Secretary, NRSC |
| CAPT P. Blake | BUMED |
| CDR D. Farrand | NAVSEA 04N |
| CDR S. Doremus | OIC, NAVSEADET RASO |
| LCDR S. Wolff | NEHC |
| LCDR P. Liotta | HQMC(SD) |
| Mr. M. McGown | NAVSEA 08R |
| Mr. M. Fuller | NRC Region II |
| Mr. M. Lesser | NRC Region II |

2. RADM Granuzzo opened the meeting by welcoming the committee members to the NRSC Meeting, Third Quarter, 1999.

a. CDR Higgins discussed the status of pending and new NRSC action items for the quarter. One pending item remains open and five new items were added, three of which still remain open. The status of pending and new items are described in enclosure (2).

b. LCDR Wolff of the Navy Environmental Health Center (NEHC) and CDR Doremus of the Radiological Affairs Support Office (RASO) discussed the status of Naval Radioactive Materials Permit (NRMP) actions and inspections conducted during the quarter. NRMP

mc24

Subj: MINUTES OF THE NAVAL RADIATION SAFETY COMMITTEE MEETING

actions completed are listed as enclosures (3) and (4), respectively. The current number of NRMPs is 148, of these, 29 are managed by NEHC, with the balance, 119 managed by RASO.

c. CAPT Blake presented an overview of radiation exposures for CY-98 for personnel whose principle source of exposure is from NRC licensed materials. The review demonstrated a downward trend (43% decrease) in the number of personnel monitored during the past five years. Similarly, there was a 47% and 33% decrease in the gamma and neutron exposures, respectively, during the same five-year period. This trend is due to the reduction in Fleet operational nuclear platforms, weapons stockpile reductions in support of treaty commitments, and a smaller nuclear work force.

The average Man-REM (gamma + neutron) for individuals receiving an exposure during CY-98 (annual exposure > 0 REM) was reported to be 00.025 REM. This demonstrates a 17% reduction in the average Man-REM when compared to CY-94. Additionally, the exposure data was further subdivided by occupational use-code categories and appears as enclosure (5).

d. RADM Granuzzo afforded the NRC an opportunity to discuss any issues of programmatic interest.

- Mr. Fuller mentioned that the NRSC request for an exemption from specific labeling requirements for Marine Corps fire control devices had been received by the NRC.

- With regards to the accidental incineration of radionuclides from the National Naval Medical Center, Mr. Fuller agreed with the NRSC, that modeling the release using the Environmental Protection Agency's COMPLY program would yield a highly conservative estimate. In reality, the stack gas emission temperature would be greater than the ambient air and would rise to a much higher altitude, resulting in significantly greater dispersion and a reduced dose delivered to individuals.

- Mr. Fuller requested that the NRSC prepare a depleted uranium recovery plan prior to their return to Vieques, Puerto Rico. The recovery plan will be reviewed by NRC Headquarters and used as the foundation of their inspection of Navy's DU recovery and restoration actions. The NRSC concurred with the request and tasked RASO and NAVSEA-04N jointly with the preparation. RADM Granuzzo requested guidance on content and was informed by the NRC that the plan should include acceptance criteria, recovery procedures, and instruments to be used during the recovery.

Subj: MINUTES OF THE NAVAL RADIATION SAFETY COMMITTEE MEETING

- Mr. Lesser discussed the recent revelation by the Department of Energy (DOE) that analysis of samples of depleted uranium (DU) contained trace amounts of transuranics including neptunium, plutonium, americium, and technetium. The composition of the DU is 99% U-238 and less than 0.1% trace contaminants. The presence of transuranic contamination will not increase the radiation dose delivered or alter the chemical toxicity of the DU. The question was raised to the NRC if all DU used by the Department of Defense was confirmed to be contaminated. Mr. Lesser indicated that the extent of contamination was not known but that DOE had been tasked with further radioanalysis. The NRC will provide further guidance as it becomes available and will advise the NRSC if an amendment to the Master Materials License will become necessary.

- RADM Granuzzo thanked the NRC for their comments and closed the meeting.

3. The NRSC Meeting for the Third Quarter 1999 was adjourned at 1130 by RADM Granuzzo. The date for the next meeting of the NRSC is tentatively scheduled for Monday, December 6, 1999 at 1030.



A. A. GRANUZZO
Rear Admiral, U.S. Navy

Copy to:
NRSC Members
COMNAVSEASYSKOM (08R)
NRC Reg. II (ATTN: M. Fuller)
NRC Headquarters (ATTN: Ms. S. Woods, Mail Stop 6H3)

**NAVAL RADIATION SAFETY COMMITTEE
MEETING OF 10 September 1999**

AGENDA

- a. **Executive Secretary Report/NRSC Action Items -- N455**
 - Update on expenditure of DU at Vieques, PR
 - Closure of two NRC allegations
 - Annual gamma radiography report to NRC
 - Gamma radiography inspection, NAVSHIPYD Pearl Harbor, HI
 - Incineration of radioisotopes from NNMC Bethesda
 - Y2K compliance of NRMP permitted material and devices

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

- c. **Annual Summary of Personnel Radiation Exposures -- CAPT Blake**

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

The tentative date for the Fourth Quarter CY-1999 meeting of the NRSC is Wednesday, December 8, 1999, at 1030, Crystal Plaza 5, Room 635.

Naval Radiation Safety Committee Meeting
3rd Quarter 1999
September 10, 1999

1. N45 Opening Remarks-

Admiral Granuzzo welcomes NRC Region II and Headquarters Representatives.

| | |
|---------------------|--|
| Mr. Michael Fuller | NRC Region II Navy MML Program Manager |
| Mr. Mark Lesser | NRC Region II |
| Dr. Donna-Beth Howe | NRC Headquarters, MML Program Office |

2. Executive Secretary NRSC welcomes visitors and introduces NRSC Members:

| | |
|--|--|
| RADM Granuzzo | Chairman, Naval Radiation Safety Committee Director, Environmental Protection, Safety and Occupational Health Division |
| CAPT Blake | Bureau of Medicine and Surgery (Code 211) Office of Undersea Medicine and Radiation Health |
| CDR Farrand | Director, Radiological Controls Program Office Commander, Naval Sea Systems Command (NAVSEA-04N) |
| CDR Higgins | Executive Secretary, Naval Radiation Safety Committee Head, Radiological Controls and Health Branch (N455) |
| CDR Doremus | Officer in Charge, Radiological Affairs Support Office Naval Weapons Station, Yorktown, Virginia |
| LCDR Wolff | Head, Radiation Health Team Navy Environmental Health Center, Norfolk, VA |
| LCDR Liotta | Health Physics Program Manager, Safety Division, Headquarters, United States Marine Corps |
| Mr. McGown (<i>Ad hoc Member</i>) | Radiation Health Program Manager Naval Nuclear Power Program Naval Sea Systems Command (NAVSEA-08R) |

Note: CDR Pomerville On travel this week and will present the analysis of NRC inspection deficiencies during 4th Quarter NRSC Meeting.

3. There is **1 Outstanding Action Item** reported at the last NRSC Meeting, 2nd Quarter 1999 (June 2, 1999).

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 | Physicist dispatched with recovery team (57 DU recovered) 10-19MAR. |
| 01APR99 | Initial written notification provided to NRC. |
| 05MAY99 | CINCLANTFLT reschedules recovery return date to August 1999. |
| 01JUN99 | Progress report on recovery actions to date to NRC REG II. |
| 01JUN99 | NRC issues Preliminary Notification of Event or Unusual Occurrence. |
| 02JUN99 | Briefing of DU recovery operations to NRSC and NRC. |
| 17JUN99 | Rounds previously recovered in March sent to Barnwell, SC, for burial. |
| 30JUL99 | RADM Granuzzo briefed Rush Commission regarding Vieques, PR. - Presidential Commission investigating Navy activities on Puerto Rico. |
| 05AUG99 | Range Refurbishment cancelled by AFWTF Commanding Officer. |
| 19AUG99 | Navy issues NOV to US Navy and US Marine Corps for DU incident. |
| 10SEP99 | Action Item #1 Pending. |

There are **FIVE** new Action Items to present to the NRSC.

New Action Item #1.

NRC Allegation: Dosimetry at Naval Calibration Laboratory, Yorktown, VA

| | |
|---------|--|
| 20MAY99 | NRC issues Allegation regarding dosimetry practices at Yorktown, VA. |
| 15JUN99 | NRSC issues first response regarding quality of Navy dosimetry program. |
| 02JUL99 | NRC, Region II, requests amplifying information on TLD processing. |
| 14JUL99 | NRSC issues 2 nd response regarding TLD sensitivity and processing. |
| 22JUL99 | NRSC receives call from NRC, Region II, "No Further Action Required". |
| 22JUL99 | Action Item #1 Closed. |

New Action Item #2.

NRC Allegation: Radiation Exposure to Population on Vieques From DU Rounds

| | |
|---------|--|
| 28JUN99 | NRC issues Allegation regarding DU radiation exposure on Vieques. |
| 02JUL99 | NRSC tasks RASO with 25mm DU round exposure rates: - Radiation surveys conducted on 25mm DU round and reported. |
| 22JUL99 | NRSC issues response to NRC Allegation. - Response includes RAND Corporation Report on DU toxicity studies. |
| 07SEP99 | NRSC receives call from NRC, Region II, "No Further Action Required". |
| 07SEP99 | Action Item #2 Closed. |

New Action Item #3.

Annual Report on Gamma Radiography Exposures to NRC

| | |
|---------|---|
| 12AUG99 | Contacted by NRC Headquarters regarding Annual Radiography Report: - Statements made regarding revocation of Navy MML for radiography. 1. NRC's concern regards exposure period exceeding 1 calendar year. 2. Report complies with 10CFR20.2206(a)(2) "radiography exposures". 3. Report complies with 10CFR20.2206(b) as "electronic media". 4. Reports are submitted annually by April 30 th per 10CFR20.2206(c). |
| 12AUG99 | NRSC communicates with RASO and Naval Dosimetry Center (NDC). - Navy confirmed to be in full compliance with 10CFR20 conditions. |
| 12AUG99 | Closure call placed to NRC Headquarters. Navy will accommodate NRC. - Electronic media will be used for annual report submission. - Exposures will be prorated and reported for full calendar year. |
| 17AUG99 | 1 st Meeting at NDC and NRC Headquarters Staff. |
| 25AUG99 | NDC called by NRC Headquarters- Comments regarding: - "Failure to comply with 10CFR20" and Discussion of "Enforcement Action", "Issue of NOV" and "Fines". |
| 26AUG99 | OIC, NDC, notified NRSC. Information passed to NRC Region II. - Region II communicated with Headquarters. Allegations groundless. |
| 24SEP99 | 2 nd Meeting scheduled for NDC, RASO, SAIC, and NRC Headquarters. |
| 10SEP99 | Action Item #3 Pending. |

New Action Item #4.

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

| | |
|---------|--|
| 16JUN99 | Boundary violation occurred at Naval Shipyard, Pearl Harbor (PHNSY). - During critique of incident a Severity Level III NOV was self identified. - Monitor failed to comply with dosimetry requirements of 20CFR34.47. |
| 15JUL99 | PHNSY issues Report of Investigation to NRSC via RASO. |
| 09AUG99 | NRSC issued Severity Level III NOV to Naval Shipyard, Pearl Harbor |
| 17AUG99 | RASO radiography inspection preliminarily identifies 2 Level III violations. |
| 18AUG99 | NRSC notified. CO/RASO initiates 30 Day Stand Down for Training. |
| 26AUG99 | NRSC initial report to NRC Region II. Report event and 2 Level III NOV's. |
| 08SEP99 | RASO Inspection Report released by NRSC. Three Level III NOV's. |
| 10SEP99 | Action Item #4 Pending. |

New Action Item #5.

Accidental Incineration of Radioisotopes From National Naval Medical Center

| | | | |
|---------|---|-------------|-----------|
| 13AUG99 | Long half-lived isotopes discarded as bio-hazard trash. | | |
| | Radionuclide | Activity | Half-Life |
| | Sr-89 | 40 μ Ci | 52.7 d |
| | Cr-51 | 30 μ Ci | 27.7 d |
| | In-111 (In-114m) | 35 μ Ci | 50.0 d |
| | I-125 | 20 μ Ci | 59.4 d |
| 13AUG99 | No detectable dose rate above background on shipping container. | | |
| 13AUG99 | Waste shipped to Stercycle, Baltimore, MD, and incinerated 13AUG99. | | |

| | |
|---------|---|
| 17AUG99 | Loss first identified by NNMC. Initial notification to NEHC made. |
| 18AUG99 | Loss confirmed by NNMC. Voice notification to NRSC made by NEHC. |
| 19AUG99 | Voice notification made to NRC Region II by NRSC. |
| 19AUG99 | NNMC Radiation Safety Actions: - Training of Radiation Safety and Nuclear Medicine Technicians - Long half-life waste handling modification. Direct transport to storage. - Incorporation of training into Annual Training and QMP. - Exposure to public calculated to be approximately 0.3 mrem. |
| 19AUG99 | NRC, Region II requested that NRSC contact MD Radiological Controls. |
| 20AUG99 | MD State Department of Radiological Controls contacted by phone. |
| 17SEP99 | 30 day written notification to NRC required. |
| 10SEP99 | Action Item #5 Pending. |

Comment of Note #1.

Y2K Compliance For NRSC Permitted Radioactive Material

| | |
|---------|--|
| 13JUL99 | Request for Y2K compliance of dose computers and irradiators to NEHC. |
| 13JUL99 | Request for Y2K compliance of irradiators and devices to RASO. |
| 01SEP99 | Confirmation received from NEHC and RASO that radiation devices used by Navy with NRMP licensed material are Y2K compliant. - NEHC: Dose calibrators, irradiators, and therapy planning computers. - RASO: Irradiators, timers, and moisture-density meters. |
| 10SEP99 | Action Item #6 Closed. |

Updates on permitting and inspection actions:

NEHC – LCDR Wolff, MSC, USN

RASO – CDR Doremus, MSC, USN

Presentations: **Radiation Exposure Summary for CY-98**
 CAPT Blake, MSC, USN
 Undersea Medicine and Radiation Health (MED-211)
 Bureau of Medicine and Surgery

Nuclear Regulatory Commission's Report
Mr. Michael Fuller, NRC REGION II, Atlanta, GA.

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

Next Meeting: **Tentatively scheduled for December 6, 1999**
 First Full Week, Last Month of Each Quarter

TECHNICAL SUPPORT CENTER = NAVY ENVIRONMENTAL HEALTH CENTER (NEHC)

| <i>Permit Actions</i> | New Issues | Terminations | Amendments | Renewals | Totals |
|---|------------|--------------|------------|----------|--------|
| Permit Actions Carried Over from Previous Quarter | 0 | 0 | 1 | 1 | 2 |
| Permit Actions Received During Quarter | 0 | 0 | 10 | 0 | 10 |
| Total Permit Actions "In House" During Quarter | 0 | 0 | 11 | 1 | 12 |
| Actions Signed Out by NRSC | 0 | 0 | 10 | 1 | 11 |
| Quarterly Average Action Processing Time in Days | N/A | N/A | 11 | 93 | 18 |
| Actions Exceeding NRSC Guidelines *1 | 0 | 0 | 0 | 0 | 0 |
| Actions Pending at End of Quarter | 0 | 0 | 1 | 0 | 1 |

| Oldest Pending Permit Actions (Command) | NRMP Number | Days in House | Action |
|--|--------------------|----------------------|---------------|
| NAVMEDCEN, SAN DIEGO, CA | 04-00259-11NP | 10 | A |
| | | | |
| | | | |
| | | | |

| <i>Permit Inspections</i> | <i>Total</i> |
|--|--------------|
| Inspection Reports Carried over from Previous Quarter | 0 |
| Inspections Conducted During Quarter | 3 |
| Total Inspection Reports "In House" During Quarter | 3 |
| Inspection Reports Signed out by NRSC | 1 |
| Quarterly Average Inspection Report Processing Time in Days | 14 |
| Longest Inspection Report Processing Time This Quarter in Days | 14 |
| Inspection Reports Exceeding NRSC Guidelines *2 | 0 |
| Inspection Reports Pending at End of Quarter | 2 |

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

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

Date Prepared: 8/31/99

Enclosure: 27 (3)

TECHNICAL SUPPORT CENTER = RADIOLOGICAL AFFAIRS SUPPORT OFFICE (RASO)

| Permit Actions | New Issues | Terminations | Amendments | Renewals | Totals |
|---|-------------------|---------------------|-------------------|-----------------|---------------|
| Permit Actions Carried Over from Previous Quarter | 0 | 1 | 4 | 4 | 9 |
| Permit Actions Received During Quarter | 4 | 7 | 17 | 3 | 31 |
| Total Permit Actions "In House" During Quarter | 4 | 8 | 21 | 7 | 40 |
| Actions Signed Out by NRSC | 3 | 8 | 18 | 4 | 33 |
| Quarterly Average Action Processing Time in Days | 76 | 25 | 7 | 46 | 22 |
| Actions Exceeding NRSC Guidelines *1 | 0 | 0 | 0 | 0 | 0 |
| Actions Pending at End of Quarter | 1 | 0 | 3 | 3 | 7 |

| Oldest Pending Permit Actions (Command) | NRMP Number | Days in House | Action |
|--|--------------------|----------------------|---------------|
| Naval Weapons Station, Yorktown, VA | 45-00109-C1NP | 90 | R |
| Naval Research Laboratory, Washington, DC | 08-00173-E1NP | 80 | A |
| Naval Station, Rota, Spain | 77-62863-C1NP | 80 | R |
| SPAWARSSYSCOM San Diego, CA | 04-66001-C1NP | 49 | R |
| Marine Corps Logistics Base, Albany, GA | 10-67004-T1NP | 19 | I |

| Permit Inspections | Total |
|--|--------------|
| Inspection Reports Carried over from Previous Quarter | 2 |
| Inspections Conducted During Quarter | 25 |
| Total Inspection Reports "In House" During Quarter | 27 |
| Inspection Reports Signed out by NRSC | 16 |
| Quarterly Average Inspection Report Processing Time in Days | 19 |
| Longest Inspection Report Processing Time This Quarter in Days | 55 |
| Inspection Reports Exceeding NRSC Guidelines *2 | 0 |
| Inspection Reports Pending at End of Quarter | 11 |

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

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

Date Prepared: 8/31/99

Enclosure ~~2~~ (3)

LISTING OF NRMP ACTIONS/INSPECTIONS
3rd QUARTER CY-1999

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

New Issues: RASO = 3 NEHC = 0

| | | | | | | | |
|---|-----------|--|----|-------|----|------|-------|
| 1 | 15 Jun 99 | Naval Supply Systems Command, Mechanicsburg, PA | 37 | 00023 | T1 | RASO | Issue |
| 2 | 04 Aug 99 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | A1 | RASO | Issue |
| 3 | 23 Aug 99 | Naval Air Station Joint Reserve Base, New Orleans, LA | 17 | 00206 | J1 | RASO | Issue |
| | | | | | | | |
| | | | | | | | |

Terminations: RASO = 8 NEHC = 0

| | | | | | | | |
|---|-----------|---|----|-------|----|------|-------------|
| 1 | 15 Jun 99 | Naval Supply Systems Command, Arlington, VA | 45 | 00023 | T1 | RASO | Termination |
| 2 | 15 Jun 99 | Naval Facilities Engineering Service Center, Port Hueneme, CA | 04 | 0537A | G1 | RASO | Termination |
| 3 | 09 Jul 99 | Public Works, Great Lakes, IL | 12 | 65113 | J1 | RASO | Termination |
| 4 | 21 Jul 99 | USS Simon Lake (AS-33) | 59 | 04697 | A1 | RASO | Termination |
| 5 | 21 Jul 99 | USS Simon Lake (AS-33) | 59 | 04697 | C1 | RASO | Termination |
| 6 | 04 Aug 99 | Naval Shipyard, Pearl Harbor, HI | 53 | 00311 | A1 | RASO | Termination |
| 7 | 09 Aug 99 | Naval Ordnance Center Pacific Division, Port Hadlock Detachment, Port Hadlock, WA | 46 | 32013 | L1 | RASO | Termination |
| 8 | 23 Aug 99 | Naval Air Station, North Island, CA | 04 | 00246 | J1 | RASO | Termination |
| | | | | | | | |
| | | | | | | | |

LISTING OF NRMP ACTIONS/INSPECTIONS
3rd QUARTER CY-1999

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|---------------------------------|-----------|--|------------|-------|-----------|------------|-------------------------------|
| Amendments: RASO = 18 NEHC = 10 | | | | | | | |
| 1 | 15 Jun 99 | Naval Research Laboratory, Washington, DC | 08 | 00173 | E1 | RASO | Amendment |
| 2 | 23 Jun 99 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | C1 | RASO | Amendment |
| 3 | 23 Jun 99 | Naval Shipyard, Pearl Harbor, HI | 53 | 00311 | A1 | RASO | Amendment |
| 4 | 09 Jul 99 | Material Readiness Battalion, 3D Force Service Support Group, FMF, Pacific | 63 | 29021 | C1 | RASO | Amendment |
| 5 | 09 Jul 99 | Shore Intermediate Maintenance Activity, San Diego, CA | 04 | 65918 | A1 | RASO | Amendment |
| 6 | 16 Jul 99 | Naval Surface Warfare Center, Carderock Division, West Bethesda, MD | 19 | 61533 | E1 | RASO | Amendment |
| 7 | 04 Aug 99 | Trident Refit Facility, Kings Bay, GA | 10 | 44466 | A1 | RASO | Amendment |
| 8 | 19 Aug 99 | Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA | 46 | 68438 | A1 | RASO | Amendment |
| 9 | 23 Aug 99 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | B1 | RASO | Amendment |
| 10 | 23 Aug 99 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | J1 | RASO | Amendment |
| 11 | 23 Aug 99 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | S1 | RASO | Amendment |
| 12 | 23 Aug 99 | Strategic Weapons Facility, Atlantic, Kings Bay, GA | 10 | 68733 | B1 | RASO | Amendment |
| 13 | 31 Aug 99 | Naval Shipyard, Portsmouth, NH | 28 | 00102 | C1 | RASO | Amendment |
| 14 | 31 Aug 99 | Naval Shipyard, Norfolk, VA | 45 | 00181 | A1 | RASO | Amendment |
| 15 | 31 Aug 99 | Public Works Center, San Diego, CA | 04 | 63387 | J1 | RASO | Amendment |
| 16 | 31 Aug 99 | Naval Surface Warfare Center, Carderock Division, West Bethesda, MD | 19 | 61533 | E1 | RASO | Amendment |
| 17 | 09 Jul 99 | Director, Strategic Systems Programs, Arlington, VA | 45 | 00030 | T1 | RASO | Amendment (Corrected Copy) |
| 18 | 04 Aug 99 | Material Readiness Battalion, 3D Force Service Support Group, FMF, Pacific | 63 | 29021 | C1 | RASO | Amendment (Corrected Copy) |
| | | | | | | | |
| 1 | 15 Jun 99 | Naval Hospital, Camp Lejeune, NC | 32 | 68093 | 11 | NEHC | Amendment |

LISTING OF NRMP ACTIONS/INSPECTIONS
3rd QUARTER CY-1999

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|----|-----------|--|------------|-------|-----------|------------|-----------|
| 2 | 21 Jun 99 | Naval Hospital, Pensacola, FL | 09 | 00203 | 11 | NEHC | Amendment |
| 3 | 21 Jun 99 | Naval Medical Center, San Diego, CA | 04 | 00259 | 11 | NEHC | Amendment |
| 4 | 02 Jul 99 | Naval Medical Research Unit #2, Jakarta, Indonesia | 62 | 30851 | 41 | NEHC | Amendment |
| 5 | 09 Jul 99 | National Naval Medical Center, Bethesda, MD | 19 | 00168 | 21 | NEHC | Amendment |
| 6 | 12 Jul 99 | Naval Hospital, Guam | 56 | 68096 | 11 | NEHC | Amendment |
| 7 | 21 Jul 99 | Naval Hospital, Okinawa, Japan | 63 | 68470 | 11 | NEHC | Amendment |
| 8 | 21 Jul 99 | Naval Hospital, Camp Pendleton, CA | 04 | 68094 | 11 | NEHC | Amendment |
| 9 | 04 Aug 99 | Naval Hospital, Bremerton, WA | 46 | 68095 | 11 | NEHC | Amendment |
| 10 | 19 Aug 99 | Naval Medical Center, Portsmouth, VA | 45 | 00183 | 11 | NEHC | Amendment |

Renewals: RASO = 4 NEHC = 1

| | | | | | | | |
|---|-----------|--|----|-------|----|------|---------|
| 1 | 03 Jun 99 | US Naval Academy, Annapolis, MD | 19 | 00161 | M1 | RASO | Renewal |
| 2 | 03 Jun 99 | US Naval Academy, Annapolis, MD | 19 | 00161 | B1 | RASO | Renewal |
| 3 | 03 Jun 99 | US Naval Academy, Annapolis, MD | 19 | 00161 | V1 | RASO | Renewal |
| 4 | 03 Jun 99 | Naval Shipyard, Portsmouth, NH | 28 | 00102 | C1 | RASO | Renewal |
| | | | | | | | |
| 1 | 19 Aug 99 | Naval Medical Research Center Detachment, Lima, Peru | 87 | 44852 | 41 | NEHC | Renewal |

Inspections: RASO = 16 NEHC = 1

| | | | | | | | |
|---|-----------|---|----|-------|----|------|------------|
| 1 | 24 May 99 | USS Frank Cable (AS-40) | 59 | 45255 | A1 | RASO | Inspection |
| 2 | 03 Jun 99 | U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP | 80 | 66120 | C1 | RASO | Inspection |

LISTING OF NRMP ACTIONS/INSPECTIONS
3rd QUARTER CY-1999

| # | DATE | ACTIVITY | STATE CODE | UIC | TYPE CODE | NEHC/ RASO | ACTION |
|----|-----------|---|------------|-------|-----------|------------|------------|
| 3 | 15 Jun 99 | Naval Ocean Processing Facility, Whidbey Island, WA | 46 | 68844 | B1 | RASO | Inspection |
| 4 | 28 Jun 99 | Naval Undersea Warfare Center Division, Keyport, WA | 46 | 00253 | B1 | RASO | Inspection |
| 5 | 28 Jun 99 | Naval Undersea Warfare Center Division, Keyport, WA | 46 | 00253 | A1 | RASO | Inspection |
| 6 | 28 Jun 99 | Navy EOD Technical Center, Indian Head, MD | 19 | 0464A | A1 | RASO | Inspection |
| 7 | 28 Jun 99 | Navy EOD Technical Center, Indian Head, MD | 19 | 0464A | W1 | RASO | Inspection |
| 8 | 28 Jun 99 | Naval Surface Warfare Center, Indian Head Division, Silver Spring, MD | 19 | 00174 | S1 | RASO | Inspection |
| 9 | 28 Jun 99 | Naval Postgraduate School, Monterey, CA | 04 | 62271 | F1 | RASO | Inspection |
| 10 | 28 Jun 99 | Naval Postgraduate School, Monterey, CA | 04 | 62271 | H1 | RASO | Inspection |
| 11 | 27 Jul 99 | Public Works Center, San Diego, CA | 04 | 63387 | J1 | RASO | Inspection |
| 12 | 19 Aug 99 | Naval Sea Systems Command, Washington, DC | 45 | 00024 | T1 | RASO | Inspection |
| 13 | 23 Aug 99 | US Naval Academy, Annapolis, MD | 19 | 00161 | B1 | RASO | Inspection |
| 14 | 23 Aug 99 | Space and Naval Warfare Systems Center, Charleston, SC | 39 | 65236 | C2 | RASO | Inspection |
| 15 | 23 Aug 99 | Naval Supply Systems Command, Mechanicsburg, PA | 37 | 00023 | T2 | RASO | Inspection |
| 16 | 23 Aug 99 | Naval Supply Systems Command, Mechanicsburg, PA | 37 | 00023 | T1 | RASO | Inspection |
| | | | | | | | |
| 1 | 19 Aug 99 | Naval Hospital, Charleston, SC | 39 | 68084 | 11 | NEHC | Inspection |

QA Program Actions: RASO = 2 NEHC = 0

| | | | | | | | |
|---|-----------|-----------------------------|----|-------|----|------|------------------------|
| 1 | 23 Jun 99 | Naval Shipyard, Norfolk, VA | 45 | 00181 | QA | RASO | QA Program Termination |
| 2 | 21 Jul 99 | USS Simon Lake (AS-33) | 59 | 04697 | QA | RASO | QA Program Termination |

CURRENT NRMPs 3rd QUARTER CY-1999

| Type Code | Description | Number |
|-------------------------|---|-----------|
| 1 | Nuclear Medicine (Limited Scope) | 13 |
| 2 | Nuclear Medicine (Broad Scope) | 1 |
| 3 | Teletherapy | 1 |
| 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 |
| Total NEHC NRMPs | | 29 |

| Type Code | Description | Number |
|-------------------------|--|------------|
| A | Radiography | 15 |
| B | General Industrial (Not Otherwise Coded) | 11 |
| C | Calibrator (> 100 Curies) | 19 |
| 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 | 15 |
| J | Analytical Measuring Instruments | 24 |
| 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 |
| Total RASO NRMPs | | 119 |

GRAND TOTAL NRMPs 148

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 | LIFE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|---|-------|-------|-----------|-----------|-----------|--------------------|-----------------|-------------|-------------|---|
| 1 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | C | 1 | RASO | EXISTING | 23 May 96 | 23 May 99 | | Inspection Has Been Performed, Pending Report |
| 2 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | T | 1 | RASO | EXISTING | 23 May 96 | 23 May 99 | | Inspection Has Been Performed, Pending Report |
| 3 | Naval Surface Warfare Center, Carderock Division, West Bethesda, MD | 19 | 61533 | E | 1 | RASO | EXISTING | 11 Jun 97 | 12 Jun 99 | | |
| 4 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | C | 1 | RASO | EXISTING | 14 Jun 96 | 14 Jun 99 | | Rescheduled for Oct 99 |
| 5 | Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI | 53 | 32253 | A | 1 | RASO | EXISTING | 05 Aug 98 | 06 Aug 99 | | Inspection Has Been Performed, Pending Report |
| 6 | Naval Submarine Support Facility, New London, CT | 06 | 68316 | C | 1 | RASO | EXISTING | 14 Aug 96 | 14 Aug 99 | | Inspection Has Been Performed, Pending Report |
| 7 | Puget Sound Naval Shipyard, Bremerton, WA | 46 | 00251 | A | 1 | RASO | EXISTING | 28 Aug 98 | 28 Aug 99 | | Inspection Has Been Performed, Pending Report |
| 8 | Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA | 46 | 68438 | A | 1 | RASO | EXISTING | 01 Sep 98 | 01 Sep 99 | | Inspection Has Been Performed, Pending Report |
| 9 | Naval Shipyard, Norfolk, VA | 45 | 00181 | C | 1 | RASO | EXISTING | 26 Sep 96 | 26 Sep 99 | | |
| 10 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA | 45 | 45650 | B | 1 | RASO | EXISTING | 26 Sep 96 | 27 Sep 99 | | |
| 11 | Naval Shipyard, Portsmouth, NH | 28 | 00102 | A | 1 | RASO | EXISTING | 06 Oct 98 | 06 Oct 99 | | Inspection Has Been Performed, Pending Report |
| 12 | Naval Submarine Support Facility, New London, CT | 06 | 68316 | A | 1 | RASO | EXISTING | 08 Oct 98 | 08 Oct 99 | | Inspection Has Been Performed, Pending Report |
| 13 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | B | 1 | RASO | EXISTING | 10 Oct 96 | 10 Oct 99 | | |
| 14 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | Q | 1 | RASO | EXISTING | 10 Oct 96 | 10 Oct 99 | | |
| 15 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | W | 1 | RASO | EXISTING | 10 Oct 96 | 10 Oct 99 | | |
| 16 | Public Works Center, Washington Navy Yard, Washington, DC | 08 | 68925 | I | 1 | RASO | EXISTING | 20 Oct 94 | 20 Oct 99 | | |
| 17 | Naval Shipyard, Norfolk, VA | 45 | 00181 | A | 1 | RASO | EXISTING | 19 Nov 98 | 19 Nov 99 | | |
| 18 | Naval Air Systems Command, NAS, Patuxent River, MD | 19 | 00019 | T | 2 | RASO | EXISTING | 05 Dec 96 | 05 Dec 99 | | |
| 19 | Naval Air Warfare Center, Aircraft Division, Patuxent River, MD | 19 | 00421 | W | 2 | RASO | EXISTING | 05 Dec 96 | 05 Dec 99 | | |
| 20 | Naval Air Systems Command, Patuxent River, MD | 19 | 00019 | T | 3 | RASO | EXISTING | 05 Dec 96 | 05 Dec 99 | | |
| 21 | Naval Research Laboratory, Washington, DC | 08 | 00173 | E | 1 | RASO | EXISTING | 12 Dec 97 | 13 Dec 99 | | |
| 22 | Naval Medical Center, Portsmouth, VA | 45 | 00183 | 3 | 2 | NEHC | EXISTING | 14 Dec 98 | 14 Dec 99 | | |
| 23 | Naval Weapons Station, Concord, CA | 04 | 60036 | B | 1 | RASO | EXISTING | 22 Jan 97 | 23 Jan 00 | | |
| 24 | Strategic Weapons Facility, Atlantic, Kings Bay, GA | 10 | 68733 | B | 1 | RASO | EXISTING | 25 Jan 97 | 25 Jan 00 | | |
| 25 | Public Works Center, Norfolk, VA | 45 | 00187 | J | 1 | RASO | EXISTING | 26 Jan 94 | 26 Jan 00 | | |
| 26 | USS Frank Cable (AS-40) | 59 | 45255 | C | 1 | RASO | EXISTING | 31 Jan 97 | 31 Jan 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 | ISE CODE | NEHC RASO | EXISTING/ NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (?) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|--|-------|-------|-----------|----------|-----------|---------------------|-----------------|-------------|-------------|-----------------------------------|
| 27 | Marine Corps Logistics Base, Barstow, CA | 04 | 38010 | C | 1 | RASO | EXISTING | 06 Feb 97 | 06 Feb 00 | | |
| 28 | USS McKEE (AS-41) | 59 | 68780 | A | 1 | RASO | EXISTING | 09 Feb 99 | 09 Feb 00 | | |
| 29 | Shore Intermediate Maintenance Activity, San Diego, CA | 04 | 65918 | A | 1 | RASO | EXISTING | 11 Feb 99 | 11 Feb 00 | | |
| 30 | Service School Command, Great Lakes, IL | 12 | 0580A | C | 1 | RASO | EXISTING | 12 Feb 97 | 12 Feb 00 | | |
| 31 | Service School Command, Great Lakes, IL | 12 | 0580A | A | 1 | RASO | EXISTING | 18 Feb 99 | 18 Feb 00 | | |
| 32 | Navy Mobile Construction Battalion SEVEN-FOUR | 23 | 55488 | I | 1 | RASO | EXISTING | 15 Mar 95 | 14 Mar 00 | | |
| 33 | USS Emory S. Land (AS-39) | 59 | 20635 | A | 1 | RASO | EXISTING | 16 Mar 99 | 16 Mar 00 | | |
| 34 | USS Frank Cable (AS-40) | 59 | 45255 | A | 1 | RASO | EXISTING | 29 Mar 99 | 28 Mar 00 | | |
| 35 | Naval Hospital, Guam | 56 | 68096 | 1 | 1 | NEHC | EXISTING | 08 Apr 97 | 08 Apr 00 | | |
| 36 | Trident Refit Facility, Kings Bay, GA | 10 | 44466 | A | 1 | RASO | EXISTING | 12 Apr 99 | 11 Apr 00 | | |
| 37 | Shore Intermediate Maintenance Activity, Norfolk, VA | 45 | 32770 | A | 1 | RASO | EXISTING | 20 Apr 99 | 19 Apr 00 | | |
| 38 | Navy EOD Technical Center, Indian Head, MD | 19 | 0464A | T | 1 | RASO | EXISTING | 29 Apr 97 | 29 Apr 00 | | |
| 39 | Naval Support Station, Mechanicsburg, PA | 37 | 32414 | J | 1 | RASO | EXISTING | 03 May 94 | 02 May 00 | | |
| 40 | Naval Medical Research Unit #2, Jakarta, Indonesia | 62 | 30851 | 4 | 1 | NEHC | EXISTING | 10 May 97 | 09 May 00 | | |
| 41 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | B | 1 | RASO | EXISTING | 14 May 97 | 13 May 00 | | |
| 42 | Director, Strategic Systems Programs, Arlington, VA | 45 | 00030 | T | 1 | RASO | EXISTING | 22 May 97 | 22 May 00 | | |
| 43 | Navy EOD Technical Center, Indian Head, MD | 19 | 0464A | A | 1 | RASO | EXISTING | 24 May 99 | 23 May 00 | | |
| 44 | Naval Undersea Warfare Center Division, Keyport, WA | 46 | 00253 | A | 1 | RASO | EXISTING | 26 May 99 | 25 May 00 | | |
| 45 | Naval Hospital, Camp Lejeune, NC | 32 | 68093 | 1 | 1 | NEHC | EXISTING | 28 May 97 | 28 May 00 | | |
| 46 | Naval Ordnance Center, Pacific Division, Fallbrook Detachment, Fallbrook, CA | 04 | 00396 | L | 1 | RASO | EXISTING | 08 Jun 95 | 08 Jun 00 | | |
| 47 | Naval Hospital, Bremerton, WA | 46 | 68095 | 1 | 1 | NEHC | EXISTING | 27 Jun 97 | 27 Jun 00 | | |
| 48 | Marine Corps Logistics Base, Albany, GA | 10 | 67004 | W | 1 | RASO | EXISTING | 10 Jul 97 | 09 Jul 00 | | |
| 49 | Naval Hospital, Groton, CT | 06 | 61726 | 1 | 1 | NEHC | EXISTING | 23 Jul 97 | 23 Jul 00 | | |
| 50 | Naval Hospital, Newport, RI | 38 | 68086 | 1 | 1 | NEHC | EXISTING | 25 Jul 97 | 25 Jul 00 | | |
| 51 | Naval Medical Research Center, Bethesda, MD | 19 | 32398 | 4 | 1 | NEHC | EXISTING | 30 Jul 97 | 29 Jul 00 | | |
| 52 | Naval Aerospace Medical Research Laboratory, Pensacola, FL | 09 | 66452 | 4 | 1 | NEHC | EXISTING | 18 Aug 97 | 17 Aug 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 (Y) | INSPECTIONS SCHEDULED OR COMMENTS |
|----|---|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|---|
| 53 | Naval Hospital, Pensacola, FL | 09 | 00203 | 1 | 1 | NEHC | EXISTING | 22 Aug 97 | 22 Aug 00 | | |
| 54 | Naval Medical Research Unit #3, Cairo, Egypt | 61 | 61751 | 4 | 1 | NEHC | EXISTING | 10 Sep 97 | 09 Sep 00 | | |
| 55 | Space and Naval Warfare Systems Center, San Diego, CA | 04 | 66001 | E | 1 | RASO | EXISTING | 16 Sep 98 | 15 Sep 00 | | |
| 56 | Naval Aviation Depot, Cherry Point, NC | 32 | 65923 | S | 1 | RASO | EXISTING | 17 Sep 97 | 17 Sep 00 | | |
| 57 | Weapons Support Facility, Yorktown, VA | 45 | 00109 | J | 1 | RASO | EXISTING | 13 Oct 94 | 12 Oct 00 | | |
| 58 | Naval Medical Research Center, Detachment-Toxicology (NMRC/TD), Wright-Patterson AFB, | 34 | 41817 | 4 | 1 | NEHC | EXISTING | 22 Oct 97 | 21 Oct 00 | | |
| 59 | Naval Weapons Station, Concord, CA | 04 | 60036 | L | 1 | RASO | EXISTING | 26 Oct 95 | 26 Oct 00 | | |
| 60 | Marine Corps Logistics Base, Albany, GA | 10 | 67004 | T | 1 | RASO | EXISTING | 04 Nov 97 | 04 Nov 00 | | |
| 61 | Naval Shipyard, Portsmouth, NH | 28 | 00102 | C | 1 | RASO | EXISTING | 20 Nov 97 | 19 Nov 00 | | |
| 62 | Weapons Support Facility, Yorktown, VA | 45 | 00109 | C | 1 | RASO | EXISTING | 21 Nov 97 | 20 Nov 00 | | |
| 63 | Naval Medical Center, San Diego, CA | 04 | 00259 | 1 | 1 | NEHC | EXISTING | 03 Dec 97 | 03 Dec 00 | | |
| 64 | Public Works Center, Pensacola, FL | 09 | 65114 | J | 1 | RASO | EXISTING | 05 Dec 94 | 04 Dec 00 | | |
| 65 | Naval Hospital, Great Lakes, IL | 12 | 00211 | 1 | 1 | NEHC | EXISTING | 12 Jan 98 | 12 Jan 01 | | |
| 66 | Navy Drug Screening Laboratory, Great Lakes, IL | 12 | 68849 | 6 | 1 | NEHC | EXISTING | 14 Jan 98 | 14 Jan 01 | | |
| 67 | Naval Medical Research Center Detachment, Lima, Peru | 87 | 44852 | 4 | 1 | NEHC | EXISTING | 28 Jan 98 | 27 Jan 01 | | |
| 68 | Naval Hospital, Okinawa, Japan | 63 | 68470 | 1 | 1 | NEHC | EXISTING | 28 Jan 98 | 28 Jan 01 | | |
| 69 | US Naval Academy, Annapolis, MD | 19 | 00161 | M | 1 | RASO | EXISTING | 15 Mar 96 | 15 Mar 01 | | |
| 70 | US Naval Academy, Annapolis, MD | 19 | 00161 | V | 1 | RASO | EXISTING | 15 Mar 96 | 15 Mar 01 | | |
| 71 | Naval Postgraduate School, Monterey, CA | 04 | 62271 | J | 1 | RASO | EXISTING | 28 Mar 95 | 28 Mar 01 | | |
| 72 | Navy Drug Screening Laboratory, Jacksonville, FL | 09 | 68850 | 6 | 1 | NEHC | EXISTING | 13 Apr 98 | 13 Apr 01 | | |
| 73 | Naval Air Weapons Station, China Lake, CA | 04 | 60530 | B | 1 | RASO | EXISTING | 08 May 98 | 08 May 01 | | |
| 74 | Public Works Center, Pearl Harbor, HI | 53 | 62755 | J | 1 | RASO | EXISTING | 19 May 95 | 19 May 01 | | |
| 75 | Naval Surface Warfare Center, Crane Division, Crane, IN | 13 | 00164 | L | 1 | RASO | EXISTING | 23 May 96 | 23 May 01 | | Inspection Has Been Performed, Pending Report |
| 76 | Naval Postgraduate School, Monterey, CA | 04 | 62271 | H | 1 | RASO | EXISTING | 16 Jun 99 | 16 Jun 01 | | |
| 77 | Marine Corps Logistics Base, Albany, GA | 10 | 67004 | C | 1 | RASO | EXISTING | 06 Aug 98 | 05 Aug 01 | | |
| 78 | Marine Corps Logistics Base, Albany, GA | 10 | 67004 | T | 2 | RASO | EXISTING | 06 Aug 98 | 06 Aug 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 | LIC | TYPE CODE | LSE CODE | NEHC RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|---|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 79 | Marine Corps Logistics Base, Albany, GA | 10 | 67004 | T | 3 | RASO | EXISTING | 06 Aug 98 | 06 Aug 01 | | |
| 80 | Puget Sound Naval Shipyard, Bremerton, WA | 46 | 00251 | C | 1 | RASO | EXISTING | 28 Aug 98 | 27 Aug 01 | | |
| 81 | Naval Dosimetry Center, Bethesda, MD | 19 | 48539 | 8 | 3 | NEHC | EXISTING | 15 Sep 98 | 14 Sep 01 | | |
| 82 | Naval Dosimetry Center, Bethesda, MD | 19 | 48539 | 9 | 1 | NEHC | EXISTING | 15 Sep 98 | 14 Sep 01 | | |
| 83 | National Naval Dental Center, Bethesda, MD | 19 | 0608A | 4 | 1 | NEHC | EXISTING | 16 Sep 98 | 15 Sep 01 | | |
| 84 | Space and Naval Warfare Systems Center, San Diego, CA | 04 | 66001 | C | 1 | RASO | EXISTING | 16 Sep 98 | 15 Sep 01 | | |
| 85 | Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division, North | 39 | 65236 | C | 1 | RASO | EXISTING | 18 Sep 98 | 17 Sep 01 | | |
| 86 | National Naval Medical Center, Bethesda, MD | 19 | 00168 | 2 | 1 | NEHC | EXISTING | 17 Sep 98 | 17 Sep 01 | | |
| 87 | Naval Surface Warfare Center, Indian Head Division, Indian Head, MD | 19 | 00174 | P | 1 | RASO | EXISTING | 20 Sep 96 | 20 Sep 01 | | |
| 88 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | S | 1 | RASO | EXISTING | 20 Oct 98 | 19 Oct 01 | | |
| 89 | Navy Mobile Construction Battalion FIVE, Port Hueneme, CA | 04 | 55115 | I | 1 | RASO | EXISTING | 25 Oct 96 | 25 Oct 01 | | |
| 90 | Naval Air Weapons Station, China Lake, CA | 04 | 68937 | I | 1 | RASO | EXISTING | 28 Oct 96 | 28 Oct 01 | | |
| 91 | Supervisor of Shipbuilding Conversion & Repair Vallejo Environ. Det., Vallejo, CA | 04 | 64487 | J | 1 | RASO | EXISTING | 14 Nov 95 | 13 Nov 01 | | |
| 92 | Naval Oceanographic Office, Stennis Space Center, MS | 23 | 62306 | B | 1 | RASO | EXISTING | 07 Dec 98 | 07 Dec 01 | | |
| 93 | Naval Mobile Construction Battalion SEVEN | 23 | 55117 | I | 1 | RASO | EXISTING | 09 Dec 96 | 09 Dec 01 | | |
| 94 | Naval Construction Training Center, Port Hueneme, CA | 04 | 0612A | I | 1 | RASO | EXISTING | 11 Dec 96 | 11 Dec 01 | | |
| 95 | 31st Naval Construction Regiment, Port Hueneme, CA | 04 | 55752 | I | 1 | RASO | EXISTING | 12 Dec 96 | 12 Dec 01 | | |
| 96 | Naval Construction Training Center, Gulfport, MS | 23 | 65971 | I | 1 | RASO | EXISTING | 12 Dec 96 | 12 Dec 01 | | |
| 97 | Naval Medical Center, Portsmouth, VA | 45 | 00183 | 1 | 1 | NEHC | EXISTING | 14 Dec 98 | 14 Dec 01 | | |
| 98 | Public Works Center, Guam | 56 | 62395 | J | 1 | RASO | EXISTING | 12 Jan 96 | 12 Jan 02 | | |
| 99 | Navy Public Works Center, Yokosuka, Japan | 80 | 65115 | J | 1 | RASO | EXISTING | 24 Jan 96 | 23 Jan 02 | | |
| 100 | Naval Hospital, Camp Pendleton, CA | 04 | 68094 | 1 | 1 | NEHC | EXISTING | 26 Jan 99 | 26 Jan 02 | | |
| 101 | Navy Drug Screening Laboratory, San Diego, CA | 04 | 68853 | 6 | 1 | NEHC | EXISTING | 28 Jan 99 | 28 Jan 02 | | |
| 102 | USS McKEE (AS-41) | 59 | 68780 | C | 1 | RASO | EXISTING | 09 Feb 99 | 08 Feb 02 | | |
| 103 | Naval Station Rota, Spain | 77 | 62863 | C | 1 | RASO | EXISTING | 04 Mar 99 | 03 Mar 02 | | |
| 104 | USS Emory S. Land (AS-39) | 59 | 20635 | C | 1 | RASO | EXISTING | 16 Mar 99 | 15 Mar 02 | | |

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 | LIC | TYPE CODE | LSE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERDUE (Y) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|--|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|-------------|-----------------------------------|
| 105 | Naval Hospital, Jacksonville, FL | 09 | 00232 | 1 | 1 | NEHC | EXISTING | 24 Mar 99 | 24 Mar 02 | | |
| 106 | U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP | 80 | 66120 | C | 1 | RASO | EXISTING | 26 Mar 99 | 25 Mar 02 | | |
| 107 | Material Readiness Battalion, 3D Force Service Support Group, FMF, Pacific | 63 | 29021 | C | 1 | RASO | EXISTING | 29 Mar 99 | 28 Mar 02 | | |
| 108 | Marine Corps Base, Camp Lejeune, NC | 32 | 67001 | J | 1 | RASO | EXISTING | 11 Apr 96 | 11 Apr 02 | | |
| 109 | Naval Air Weapons Station, China Lake, CA | 04 | 68937 | L | 1 | RASO | EXISTING | 15 Apr 97 | 15 Apr 02 | | |
| 110 | Naval Mobile Construction Battalion FORTY, Port Hueneme, CA | 04 | 55418 | I | 1 | RASO | EXISTING | 15 May 97 | 15 May 02 | | |
| 111 | Navy EOD Technical Center, Indian Head, MD | 19 | 0464A | W | 1 | RASO | EXISTING | 24 May 99 | 24 May 02 | | |
| 112 | Naval Surface Warfare Center, Indian Head Division, Silver Spring, MD | 19 | 00174 | S | 1 | RASO | EXISTING | 26 May 99 | 25 May 02 | | |
| 113 | Naval Undersea Warfare Center Division, Keyport, WA | 46 | 00253 | B | 1 | RASO | EXISTING | 26 May 99 | 26 May 02 | | |
| 114 | Naval Ocean Processing Facility, Whidbey Island, WA | 46 | 68844 | B | 1 | RASO | EXISTING | 27 May 99 | 26 May 02 | | |
| 115 | Naval Postgraduate School, Monterey, CA | 04 | 62271 | F | 1 | RASO | EXISTING | 16 Jun 99 | 15 Jun 02 | | |
| 116 | Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division, North Charleston, SC | 39 | 65236 | C | 2 | RASO | EXISTING | 16 Jul 99 | 15 Jul 02 | | |
| 117 | Naval Hospital, Charleston, SC | 39 | 68084 | I | 1 | NEHC | EXISTING | 21 Jul 99 | 21 Jul 02 | | |
| 118 | Naval Sea Systems Command, Washington, DC | 45 | 00024 | T | 1 | RASO | EXISTING | 03 Aug 99 | 03 Aug 02 | | |
| 119 | US Naval Academy, Annapolis, MD | 19 | 00161 | B | 1 | RASO | EXISTING | 10 Aug 99 | 09 Aug 02 | | |
| 120 | Naval Supply Systems Command, Mechanicsburg, PA | 37 | 00023 | T | 2 | RASO | EXISTING | 10 Aug 99 | 10 Aug 02 | | |
| 121 | Naval Supply Systems Command, Mechanicsburg, PA | 37 | 00023 | T | 1 | RASO | EXISTING | 10 Aug 99 | 10 Aug 02 | | |
| 122 | Naval Undersea Warfare Center Division, Keyport, WA | 46 | 00253 | J | 1 | RASO | EXISTING | 22 Aug 96 | 22 Aug 02 | | |
| 123 | Navy Mobile Construction Battalion ONE THIRTY-THREE | 23 | 55451 | I | 1 | RASO | EXISTING | 09 Sep 97 | 09 Sep 02 | | |
| 124 | 20th Naval Construction Battalion | 23 | 55460 | I | 1 | RASO | EXISTING | 10 Sep 97 | 10 Sep 02 | | |
| 125 | Naval Air Weapons Station, China Lake, CA | 04 | 68937 | J | 1 | RASO | EXISTING | 28 Oct 96 | 28 Oct 02 | | |
| 126 | Navy Mobile Construction Battalion FOUR, Port Hueneme, CA | 04 | 55114 | I | 1 | RASO | EXISTING | 07 Nov 97 | 07 Nov 02 | | |
| 127 | Navy Mobile Construction Battalion ONE | 23 | 55101 | I | 1 | RASO | EXISTING | 24 Nov 97 | 24 Nov 02 | | |
| 128 | 20th Naval Construction Regiment, Gulfport, MS | 23 | 55460 | J | 1 | RASO | EXISTING | 10 Dec 96 | 10 Dec 02 | | |
| 129 | Public Works Center, Washington Navy Yard, Washington, DC | 08 | 68925 | J | 1 | RASO | EXISTING | 11 Dec 96 | 11 Dec 02 | | |
| 130 | Navy Mobile Construction Battalion THREE, Port Hueneme, CA | 04 | 55103 | I | 1 | RASO | EXISTING | 12 Feb 98 | 12 Feb 03 | | |

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 | LIC | TYPE CODE | USE CODE | NEHC/RASO | EXISTING/NEW ISSUE | LAST INSPECTION | TARGET DATE | OVERRIDE (*) | INSPECTIONS SCHEDULED OR COMMENTS |
|-----|--|-------|-------|-----------|----------|-----------|--------------------|-----------------|-------------|--------------|--|
| 131 | Naval Construction Battalion Center, Port Hueneme, CA | 04 | 62583 | R | 1 | RASO | EXISTING | 01 May 96 | 02 May 03 | | |
| 132 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA | 45 | 45650 | N | 1 | RASO | EXISTING | 26 Sep 96 | 26 Sep 03 | | |
| 133 | Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA | 45 | 45650 | N | 2 | RASO | EXISTING | 26 Sep 96 | 26 Sep 03 | | |
| 134 | Construction Battalion Unit 406, Naval Air Station, Lemoore, CA | 04 | 66650 | I | 1 | RASO | EXISTING | 07 Oct 98 | 07 Oct 03 | | |
| 135 | Marine Corps Air Station, Yuma, AZ | 03 | 62974 | J | 1 | RASO | EXISTING | 04 Dec 97 | 04 Dec 03 | | |
| 136 | Supervisor of Shipbuilding Conversion & Repair Portsmouth, Environ. Det., Charleston, SC | 39 | 64504 | J | 1 | RASO | EXISTING | 04 Dec 97 | 04 Dec 03 | | |
| 137 | Naval Air Warfare Center, Aircraft Division, Patuxent River, MD | 19 | 00421 | J | 1 | RASO | EXISTING | 19 Mar 98 | 18 Mar 04 | | |
| 138 | Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA | 45 | 00178 | J | 1 | RASO | EXISTING | 20 Oct 98 | 19 Oct 04 | | |
| 139 | Navy Environmental and Preventive Medicine Unit #5, San Diego, CA | 04 | 0546A | 7 | 2 | NEHC | EXISTING | 01 Dec 97 | 30 Nov 04 | | |
| 140 | Navy Environmental Preventive Medicine Unit #6, Pearl Harbor, HI | 53 | 0545A | 7 | 1 | NEHC | EXISTING | 26 Jan 98 | 26 Jan 05 | | |
| 141 | Naval Facilities Engineering Service Center, Port Hueneme, CA | 04 | 0537A | K | 1 | RASO | EXISTING | 06 May 98 | 06 May 05 | | |
| 142 | Public Works Center, San Diego, CA | 04 | 63387 | J | 1 | RASO | EXISTING | 24 Jun 99 | 23 Jun 05 | | |
| 143 | Indian Head Division, Naval Surface Warfare Center, Yorktown Detachment, Yorktown, VA | 45 | 47652 | J | 1 | RASO | NEW ISSUE | | | | Permit Issued 02FEB99. Scheduled for first Inspection AUG/SEP99 |
| 144 | Naval Oceanographic Office, Stennis Space Center, MS | 23 | 62306 | B | 2 | RASO | NEW ISSUE | | | | Permit Issued 06APR99. Scheduled for first Inspection OCT/NOV99 |
| 145 | Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA | 46 | 68438 | J | 1 | RASO | NEW ISSUE | | | | Inspection Has Been Performed, Pending Report |
| 146 | Marine Corps Base Hawaii, Kaneohe Bay, HI | 53 | 00334 | J | 1 | RASO | NEW ISSUE | | | | Inspection Has Been Performed, Pending Report |
| 147 | Naval Air Station, Key West, FL | 09 | 00213 | J | 1 | RASO | NEW ISSUE | | | | Permit Issued 18MAY99. Scheduled for first Inspection NOV/DEC99 |
| 148 | Naval Air Station Joint Reserve Base, New Orleans, LA | 17 | 00206 | J | 1 | RASO | NEW ISSUE | | | | Permit Issued 23AUG99. Scheduled for first Inspection FEB/MAR 00 |

Radiation Health Program Overview NRC Sources 1994 - 1998

| | 1994 | 1995 | 1996 | 1997 | 1998 |
|---------------------------------------|--------|--------|--------|--------|--------|
| UICs | 140 | 128 | 115 | 101 | 91 |
| Total People | 3,599 | 3,238 | 2,760 | 2,565 | 2,052 |
| Personnel with > 0 exposure | 1191 | 1113 | 952 | 940 | 769 |
| Total Neutron (rem) | 1.243 | 1.972 | 1.779 | 2.048 | 0.964 |
| Total Gamma (rem) | 34.216 | 32.437 | 25.207 | 22.231 | 18.452 |
| Average Person-rem (rem) | 0.030 | 0.031 | 0.028 | 0.026 | 0.025 |
| Exposures > 0 as % of Total People | 33% | 34% | 34% | 37% | 37% |

Data as of 04 August 1999 Occ Codes 32-Nuc. Med.,33-Therapy,40-Gamma Radiography
43-RADIAC Calibration, 44-General Industrial, 50-Research & 51-Research (Isotopes)

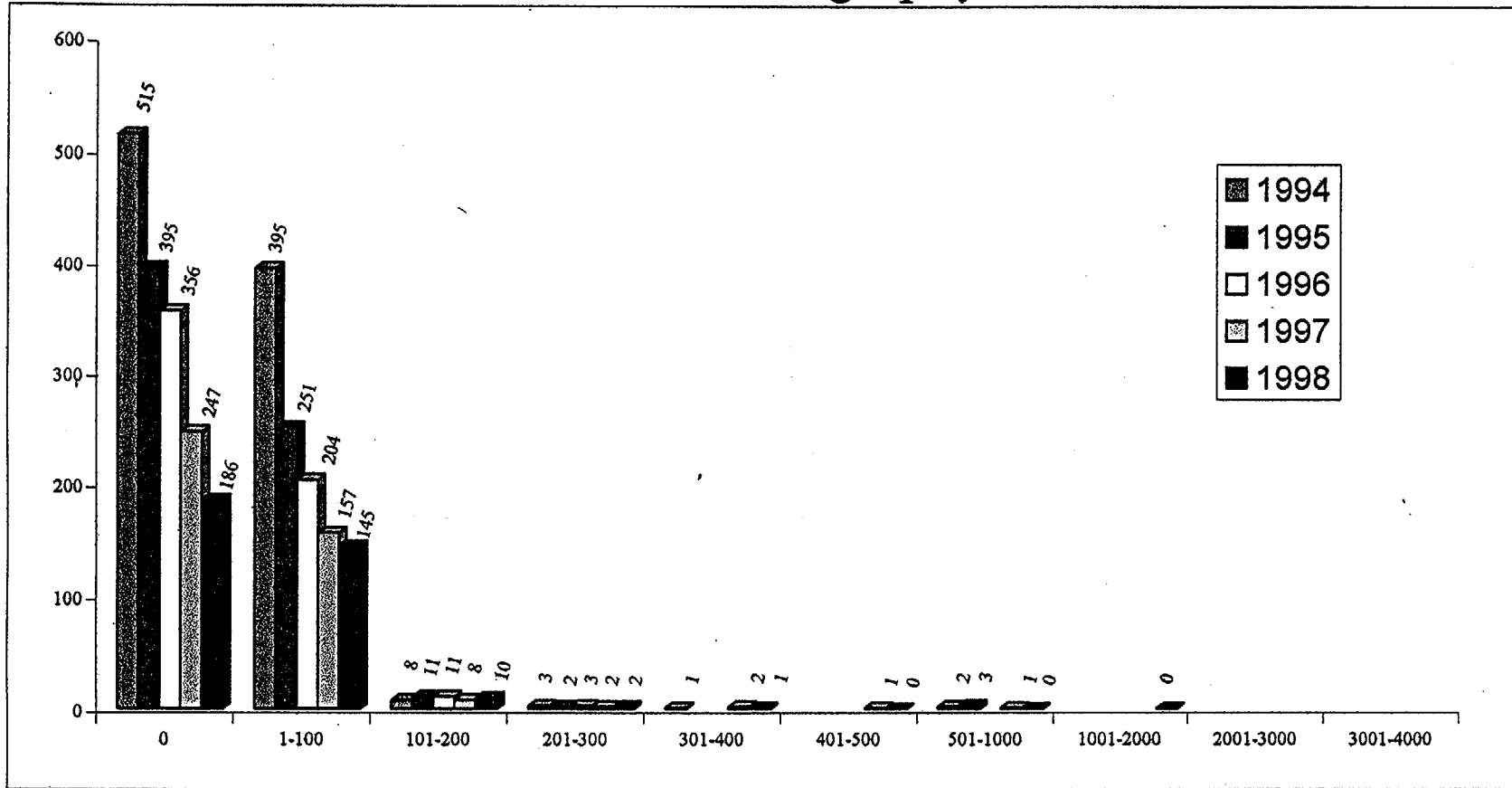
Radiation Health Program Overview Occ Code-40 1994 - 1998

| | 1994 | 1995 | 1996 | 1997 | 1998 |
|--|--------|-------|-------|-------|-------|
| # Permits | 37 | 32 | 20 | 17 | 16 |
| Total People | 924 | 662 | 574 | 418 | 344 |
| People with > 0 exposure | 409 | 267 | 218 | 171 | 158 |
| Total Neutron (rem) | 0.067 | 0.026 | 0.015 | 0.006 | 0.000 |
| Total Gamma (rem) | 10.145 | 9.432 | 5.765 | 5.721 | 4.317 |
| Average Person-rem (rem) (dose/exposed personnel) | 0.025 | 0.035 | 0.027 | 0.033 | 0.027 |
| Exposures > 0 as % of Total People | 44% | 40% | 38% | 41% | 46% |

Data as of 25 August 1999 Occ Code 40-Gamma Radiography

Occ Code Exposure Profile 1994 - 1998

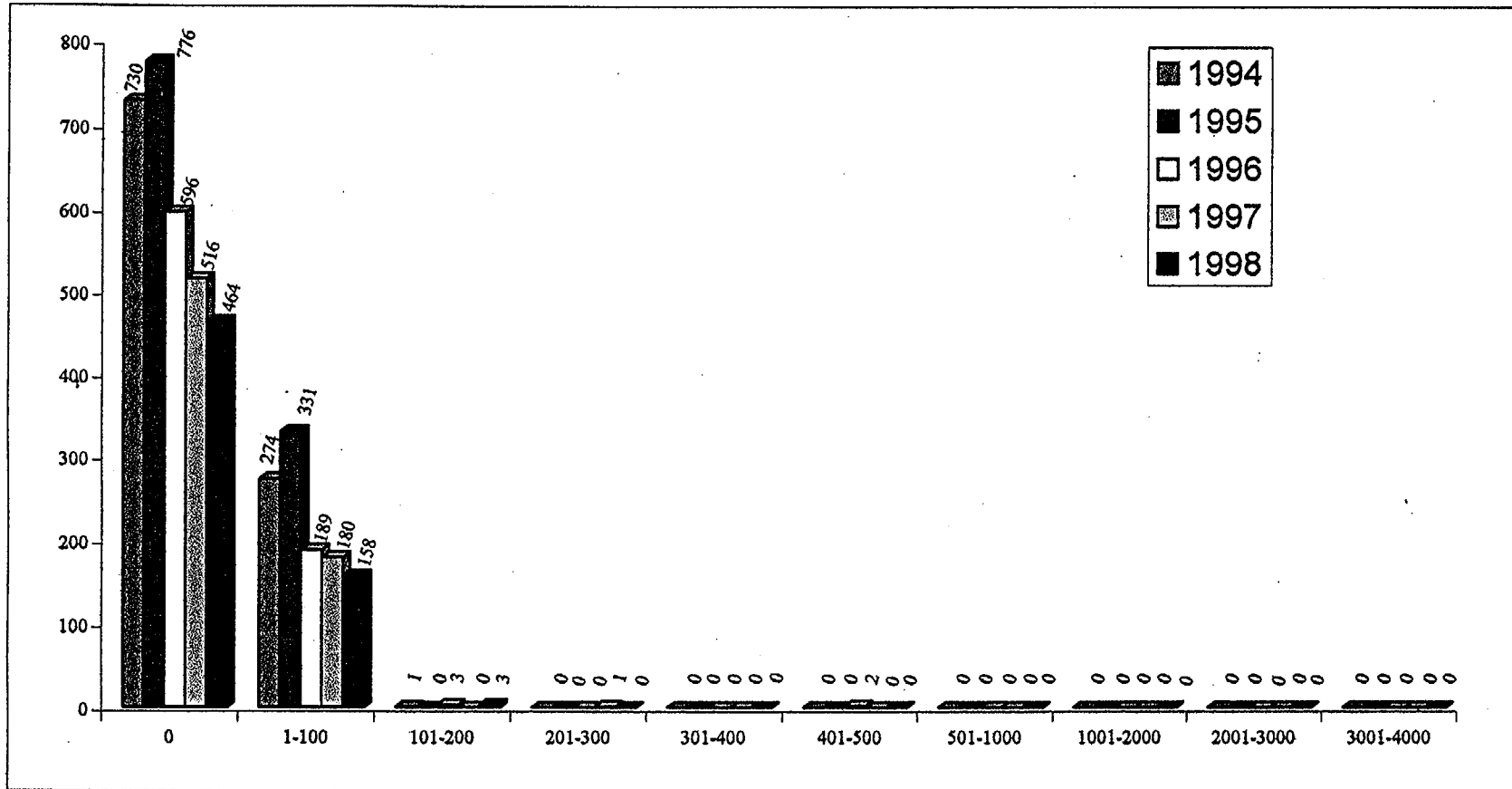
Gamma Radiography



Data as of 25 August 1999 Occ Code 40-Gamma Radiography

Occ Code Exposure Profile 1994 - 1998

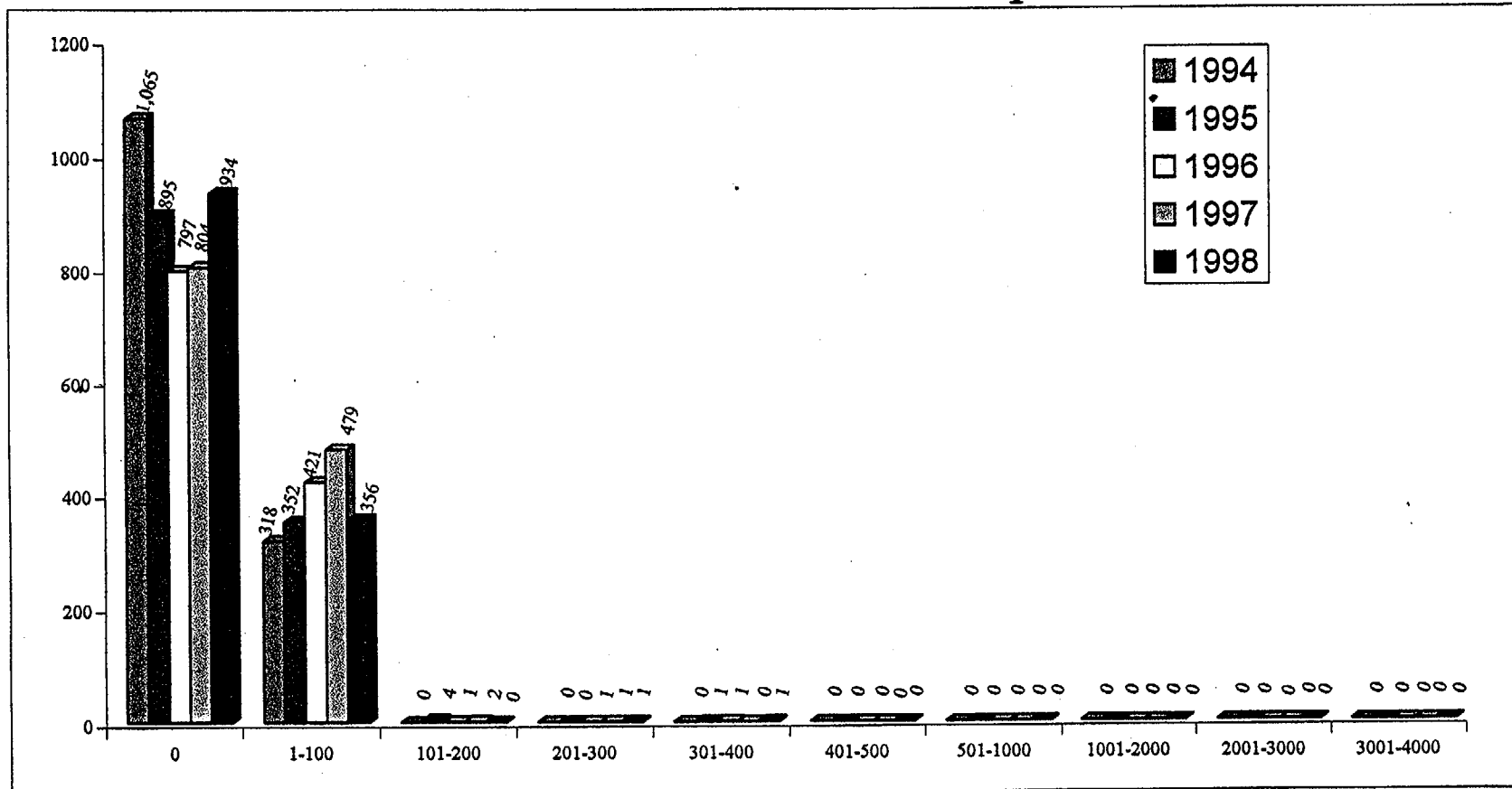
Calibration & Industrial



Data as of 25 August 1999 Occupation Codes 43-RADIAC Calibration & 44-General Industrial

Occ Code Exposure Profile 1994 - 1998

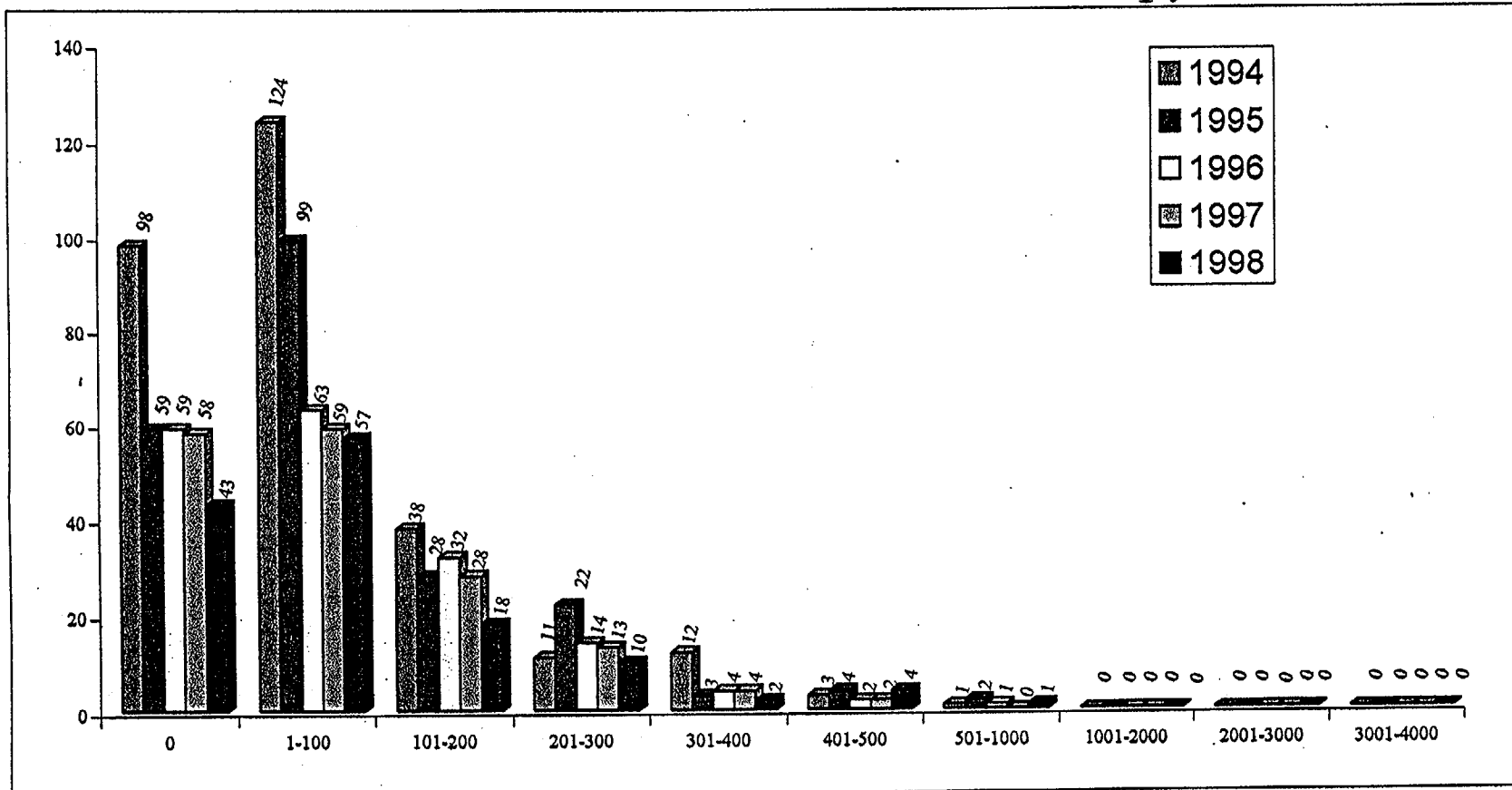
Research & Research Isotopes



Data as of 04 August 1999 Occ Codes 50-Research & 51-Research Isotopes

Occ Code Exposure Profile 1994 - 1998

Nuclear Medicine & Radiation Therapy



Data as of 04 August 1999 Occ Codes 32-Nuclear Medicine & 33-Therapy