



DEPARTMENT OF THE NAVY
OFFICE OF THE CHIEF OF NAVAL OPERATIONS
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IN REPLY REFER TO

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From: Chairman, Naval Radiation Safety Committee
To: Distribution

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

Encl: (1) Quarterly Meeting Agenda
(2) Executive Secretary Report
(3) NRMP Action Summary
(4) Inspection Summary
(5) Radiographer Certification Update
(6) Inadvertent DU Expenditure Update

1. The Naval Radiation Safety Committee (NRSC) convened at 1030 on Wednesday, June 2, 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 S. Doremus	OIC, NAVSEADET RASO
LCDR J. Pomerville	OPNAV N455C
LCDR S. Wolff	NEHC
LCDR P. Liotta	HQMC(SD)
Mr. M. McGown	NAVSEA 08R
Mr. L. Reyes	NRC Region II
Mr. M. Fuller	NRC Region II
Ms. F. Lackner	NRC HQ

2. RADM Granuzzo opened the meeting by welcoming the NRSC Committee members and the Nuclear Regulatory Commission (NRC) visitors to the NRSC Meeting, Second Quarter, 1999.

a. CDR Higgins reviewed the status of new and pending NRSC action items using enclosure (2). Three open action items were closed and two new action items were added.

b. LCDR Wolff of the Navy Environmental Health Center (NEHC) and CDR Doremus of the Radiological Affairs Support Office (RASO) reported on the status of Naval Radioactive Materials Permit (NRMP) actions and inspections using enclosures (3) and (4),

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respectively. The current number of NRMPs stands at 153. Of these, 29 are managed by NEHC, with the balance, 124 managed by RASO.

c. LCDR Pomerville reported to the Committee that a review of the inspection deficiency-tracking program would be conducted prior to the next NRSC meeting in September and would be an NRSC agenda item. Deficiency-tracking data will be provided to each technical support center for further trend analysis.

d. CDR Doremus provided an update on the status of Navy compliance with 10 CFR Part 34 requirements for the certification of gamma radiography. RADM Granuzzo prefaced the presentation by stating that he had visited and observed a mock industrial radiography operation conducted at the Shore Intermediate Maintenance Activity (SIMA), San Diego. His visit to SIMA, San Diego, was in response to the 100 percent passing rate for the American Society of Nondestructive Testing (ASNT) Industrial Radiography Certification Examination. RADM Granuzzo said that he was very impressed with the procedures, enthusiasm, and high level of expertise demonstrated by the radiographers he observed at SIMA. CDR Doremus' presentation is included as enclosure (5).

- CDR Doremus further explained that Navy has completed the initial round of ASNT testing for radiographer certification and that RASO was in the process of re-testing those personnel who were unable to take, or failed, the first exam. Navy scored better than the national average with an overall 87% passing rate. CDR Doremus stated that Navy would meet the June 27th 10 CFR Part 34 deadline for the certification of Navy radiographers.

- RADM Granuzzo inquired as to whom was qualified to conduct or proctor the required examinations. CDR Doremus explained that qualified RASO personnel travel to the site with the examinations in sealed cases. The examinations are then administered and/or proctored by RASO staff, collected, and forwarded to ASNT for evaluation. ASNT in turn provides the exam results and certification documents to RASO who then forward the documents to the individual commands. RADM Granuzzo directed that there be no compromise in standards and that the highest level of credibility be maintained throughout the examination/certification process.

e. CDR Higgins presented a briefing on the inadvertent expenditure of depleted uranium (DU) rounds at the training range in Vieques, Puerto Rico. The briefing was originally prepared by

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CDR Farrand (TAD) and presented by CDR Higgins. The briefing is included as enclosure (6).

- CDR Higgins described the circumstances surrounding the inadvertent DU expenditure as well as detailed maps and photographs of the training range and the exact location of the incident. RADM Granuzzo also provided a detailed map of the Vieques Range and explained the location and distance from populated areas.

- RADM Granuzzo inquired as to the origin of the DU ammunition. CDR Higgins explained that the Harriers were loaded onboard the USS Kearsage. The apparent cause appears to be the failure to verify the "Use Code" of the munitions prior to issue, and again, upon receipt. LCDR Liotta stated that the ammunition requisition was for training rounds (non-DU), but the NALC (Naval Ammunition Logistics Code) was listed incorrectly and DU war reserve rounds were issued instead. However, marking on the munitions should have prevented issue. The results of the Navy's investigation are pending. Initial corrective actions have involved range surveys and partial recovery of the DU rounds. Further details are contained in enclosure (6).

- RADM Granuzzo asked who was leading the investigation. LCDR Liotta stated that the Amphibious Force Commander (Navy and Marine Corps Flag Officer representatives) are conducting the investigation and is currently undergoing final review. RADM Granuzzo stated that the NRSC would review the final recommendations upon completion to ensure corrective actions are appropriate and effective.

f. RADM Granuzzo afforded the NRC an opportunity to discuss items of mutual interest.

- Mr. Reyes, Director of NRC Region II, stated he was pleased to attend the NRSC meeting and that he would like to discuss the NRC annual review of the Navy's Master Materials License (MML). Mr. Reyes congratulated the NRSC staff on the "most positive MML inspection conducted in the history of the Navy MML." RADM Granuzzo thanked Mr. Reyes for his positive comments. Mr. Reyes stated that a formal report would be forthcoming. Mr. Reyes reported that as a regulator, he acknowledged and appreciated the good working relationship and open dialogue that NRC maintains with the Navy. Mr. Reyes requested that Mr. Fuller provide further details regarding particular inspection results.

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- Mr. Fuller indicated that the NRC had conducted the Navy MML inspection during the period of 10 to 14 May 1999. A focussed review was conducted by himself, Mr. Jay Henson (NRC Region II), and Mr. John Jones (NRC Region III). Mr. Henson reviewed permitting activities at RASO while Mr. Jones reviewed inspection activities at both NEHC and RASO. Finally, the inspection team visited the offices of the NRSC Executive Secretary and met with the Chairman of the NRSC.

- Mr. Fuller described the overall results of the inspection as being "excellent with improving trends." The inspectors noted a steady positive trend and no violations were identified. Mr. Fuller mentioned that in January 1999, CDR Higgins was named NRSC Executive Secretary and that he was impressed with CDR Higgins' work. Mr. Fuller stated that "during the past year, the NRSC had provided a substantive and insightful oversight mechanism of the Navy's MML which was directly observable by the NRC."

- Mr. Fuller reviewed the annual NRSC management oversight audits of both technical support centers (RASO and NEHC) performed by CDR Higgins and LCDR Pomerville, respectively. Both reviews were considered to be very thorough and insightful.

- Mr. Fuller discussed the inspection results for NEHC and RASO:

NEHC has 4 full time employees managing 29 medical/research permits. He stated that the NEHC staff was well trained and very knowledgeable. RASO has a staff of 14 personnel managing 123 industrial/research/waste permits. He noted that personnel vacancies at RASO had been filled. Mr. Fuller stated that with minor exceptions, both NEHC and RASO were conducting permitting activities consistent with NRC policies, guidelines, and timeliness goals.

Regarding inspection activities: NEHC had performed 12 inspections during the past year, and with minor exceptions, were found to be within NRC guidelines. Mr. Fuller noted that even though the NRC has not completely developed or published its regulatory guidelines for a newly developed state-of-the-art lymphoscintigraphy procedure, NEHC had already issued sound policies and guidance to it's permittees regarding this procedure. Mr. Fuller stated that the NRC might adopt many of the procedural guidelines developed by NEHC.

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RASO performed 31 inspections during the past year. Mr. Fuller said that RASO had done a very good job in their inspection program particularly in the area of "performance based" inspections with an emphasis on "safety." The NRC accompanied RASO on one inspection and performed 11 independent inspections at Navy commands. There were no violations noted during these 12 inspections even though the NRC utilized different inspectors from four different NRC Regions to conduct these inspections.

- Mr. Fuller stated that the NRSC reported 7 events to the NRC during the past year. He also noted that some of the events did not require formal notification.

- In closing, Mr. Fuller reiterated that the inspection report would be released soon and that overall, the results of the NRC inspection of the Navy MML is considered "excellent with positive trends." Mr. Fuller stated that the NRSC Staff and the staffs of the technical support centers (NEHC/RASO) were committed to an effective oversight program.

- RADM Granuzzo thanked the NRC for their supportive comments and stated that the Navy is committed to safety. It is in our culture and we take it seriously throughout the force. "You can expect what you inspect." RADM Granuzzo closed by thanking the NRC for their time and effort and that he looked forward to the next meeting.

3. RADM Granuzzo adjourned the meeting at 1130. The date for the next meeting of the NRSC is tentatively scheduled for Wednesday, September 8, 1999 at 1030.


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

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

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**NAVAL RADIATION SAFETY COMMITTEE
MEETING OF 02 June 1999**

AGENDA

- a. Executive Secretary Report -- N455**
- b. Updates on permitting and inspection actions --
NEHC/RASO/N455C**
- c. Gamma Radiography Certification Program --
OIC RASO**
- d. DU Recovery at AFWTF, Vieques, P.R. --
NAVSEA 04N**
- e. Annual Program Review / NRC Presentation Period --
NRC Region II**

The tentative date for the Third Quarter CY-1999 meeting of the NRSC is Thursday, September 9, 1999, at 1030, Crystal Plaza 5, Room 635.

Naval Radiation Safety Committee Meeting
2nd Quarter 1999
2 June 1999

1. N45 Opening Remarks-
 Admiral Granuzzo welcomes NRC Region II Regional and Headquarters Administrators
 Mr. Luis Reyes Director, NRC Region II (Atlanta, GA)
 Mr. Michael Fuller Region II Navy MML Program Manager
 Ms. Flora Lackner NRC Headquarters, MML Program Office

2. Executive Secretary NRSC welcomes staff members and introduces NRSC Members.
 CDR Higgins Executive Secretary, Naval Radiation Safety Committee
 Head, Radiological Controls and Health Branch (N455)
 Office of Chief of Naval Operations
 Captain Blake Bureau of Medicine and Surgery, Code 211,
 Radiation Health Advisor to Navy Surgeon General
 CDR Farrand Director, Radiological Controls Program Office
 Naval Sea Systems Command, NAVSEA-04N
 CDR Doremus Officer in Charge, Radiological Affairs Support Office
 Yorktown, Virginia
 LCDR Pomerville Radiological Health Coordinator (N455C),
 Office of Chief of Naval Operations
 LCDR Wolff Head, Radiation Health Team
 Navy Environmental Health Center, Norfolk, VA
 LCDR Liotta Health Physics Program Manager,
 Safety Division, Headquarters, Marine Corps
 Mr. McGown Radiation Health Program Manager
 Naval Nuclear Power Program
 Naval Sea Systems Command (NAVSEA-08R)

3. There were 3 Outstanding Action Items reported at the last NRSC Meeting, 1st Quarter 1999 (February 22, 1999).

Outstanding Action Item #1.
NNMC-NCI Hematology-Oncology Service NOV and MML Amendment #10.

22JUN98	NRC inspection of NNMC as part of Annual MML Program Review.
21JUL98	NRC issued Level IV NOV for NNMC-NCI Hematology-Oncology Services use of radionuclides.
01FEB99	NRSC replies to NOV and requests MML Amendment #10 requesting NCI added to MML. Faxed 01FEB99 and Mailed 02FEB99
02MAR99	NRC Responds to NOV, and MML Amendment #10 Request. (1.) MML Amendment 10 Condition #13: "Authorize the Joint National Naval Medical Center NNMC and National Cancer Institute Hematology-Oncology Service to possess and use licensed materials at NNMC, Bethesda, MD." (2.) NOV Rescinded.
02MAR99	Action Item #1 Closed.

Outstanding Action Item #2.**Shipping Incident- NNMC shipped mixed biohazard/radwaste.**

18AUG98	NNMC inadvertently ships combined bio-radwaste to Chem-Nuclear Facility, South Carolina. Rad-waste shipment contained syringe with blood products.
14SEP98	NEHC conducts reactive inspection of NNMC and issues report of findings.
21SEP98	NRSC issues letter to NNMC with NEHC inspection results.
27JAN99	NNMC reports LLRW characterization to RASO.
27APR99	IOC (Army) DoD Executive Agent collects LLRW at NNMC. OIC RASO, CDR Doremus, Performs On-site evaluation of pickup per NRSC request.
27APR99	In the our letter to Chem-Nuclear, Navy reported that we would conduct an inspection of NNMC to validate that corrective actions had been implemented. NEHC has an annual inspection of NNMC scheduled for September 1999.
	Action Item #2 Closed.

Outstanding Action Item #3.**Alternatives to 10CFR Part 34 For Certification of Gamma Radiographers**

22MAR99	First round of Certification Examination initiated by RASO.
16APR99	Examinations completed.
26MAY99	Gamma Radiography Certification Program Interim Action Report (No End of Action due to on-going process of certification). CDR Doremus, MSC, USN (OIC, RASO)
26MAY99	Action Item #3 Closed.

There are TWO new Action Items to present to the Naval Radiation Safety Committee.

New Action Item #1.**Inadvertent Expenditure of Depleted Uranium Rounds at Vieques Range, Puerto Rico.**

19FEB99	263 DU rounds inadvertently expended at AFWTF, Vieques Range, Puerto Rico.
05MAR99	Discovery reported to NRSC via HQ USMC Safety Division. NRC Notified.
10MAR99	Physicist dispatched with RASO DU recovery team (57 DU recovered) 10-19MAR.
01APR99	Formal written response provided to NRC. (Mail and FAX).
05MAY99	Return to Vieques delayed per order of CINCLANTFLT. Will return August 1999.
01JUN99	Progress Report on Recovery Actions to Date to NRC REG II
02JUN99	Presentation of DU recovery operations to date by CDR Dave Farrand.
02JUN99	Action Item #1 Pending.

New Action Item #2.**Investigation into Events Surrounding Potential Extremity Exposure at NSWC, Crane, IN.**

10MAR99	Potential extremity exposure occurred at NSWC Crane Div, Crane, IN. >500R.
19MAR99	NRSC notification of event from NAVDOScen. Information notification made to NRC Region II. - Appraised of situation and Guidance requested.
20MAR99	Mr. Yonamitsu (RASO) conducted on-site inspection with photographs and interviews. Inconclusive results.
22MAR99	NRSC physics staff meeting. LaFontaine, Blake, Farrand, Higgins. Review of medical information from radiation physical examination. Calculation of exposure times required to deliver a dose of >500 R. Review of personal and posted dosimetry results. Review of photographs: Physical orientation of body with respect to source.

	Discussion of interlock mechanisms (3) for this particular irradiator. Multiple phone conversations with RSO and ARSO at Crane.
23MAR99	Phone conversation between Higgins/Individual indicated exposure had a VERY HIGH PROBABILITY OF BEING INCIDENTAL. Individual stated that he had removed his finger ring while working inside the irradiator and MAY HAVE LEFT THE FINGER RING INSIDE THE IRRADIATOR. The exposure time of the component irradiation corresponded to time required to deliver 500R.
31MAR99	Written investigation completed by NRSC.
31MAR99	Action Item #2 Closed. Report reviewed by NRC REG II inspectors as part of Annual MML Program Review on 15MAY99.

Updates on permitting and inspection actions:

NEHC
RASO
N455C

Presentations:

Industrial Radiography Certification Program
CDR Steve Doremus, MSC, USN
OIC, Radiological Affairs Support Office (RASO)
Naval Sea Systems Command, Detachment

Depleted Uranium Recovery at AFWTF, Vieques, Puerto Rico
Recovery Actions to Date
CDR Dave Farrand, MSC, USN
Naval Sea Systems Command (SEA-04N)

Nuclear Regulatory Commission's Annual Program Review
Mr. Michael Fuller, NRC REGION II, Atlanta, GA.

Closing Remarks:

Admiral Granuzzo, USN
Chairman, Naval Radiation Safety Committee

Next Meeting:

Tentatively scheduled for September 8, 1999
First Full Week, First Month of Each Quarter

NRMP ACTIONS/INSPECTIONS 2nd QUARTER CY-1999

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	2	0	2
Permit Actions Received During Quarter	0	1	6	3	10
Total Permit Actions "In House" During Quarter	0	1	8	3	12
Actions Signed Out by NRSC	0	1	7	2	10
Quarterly Average Action Processing Time in Days	N/A	23	11	1	10
Actions Exceeding NRSC Guidelines *1	0	0	0	0	0
Actions Pending at End of Quarter	0	0	1	1	2

Oldest Pending Permit Actions (Command)	NRMP Number	Days in House	Action
NAVMEDCEN SAN DIEGO CA	04-00259-11NP	1	A
NAVMEDRSCHCEN DET LIMA PERU	87-44582-41NP	4	R

<i>Permit Inspections</i>	Total
Inspection Reports Carried over from Previous Quarter	3
Inspections Conducted During Quarter	1
Total Inspection Reports "In House" During Quarter	4
Inspection Reports Signed out by NRSC	4
Quarterly Average Inspection Report Processing Time in Days	15
Longest Inspection Report Processing Time This Quarter in Days	24
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 2nd QUARTER CY-1999

TECHNICAL SUPPORT CENTER = RADIOLOGICAL AFFAIRS SUPPORT OFFICE (RASO)

<i>Permit Actions</i>	New Issues	Terminations	Amendments	Renewals	Totals
Permit Actions Carried Over from Previous Quarter	1	0	0	5	6
Permit Actions Received During Quarter	6	7	12	4	29
Total Permit Actions "In House" During Quarter	7	7	12	9	35
Actions Signed Out by NRSC	7	6	8	5	26
Quarterly Average Action Processing Time in Days	57	12	11	166	62
Actions Exceeding NRSC Guidelines *1	0	0	0	1*	1*
Actions Pending at End of Quarter	0	1	4	4	9

*1 SPAWARSYSCEN, CHAS., SC (C-Permit) (399 Days) Has Been Renewed.

Oldest Pending Permit Actions (Command)	NRMP Number	Days in House	Action
NAVSHIPYARD PEARL HARBOR	53-00311-A1NP	193	R
USS MCKEE	59-68780-A1NP	62	A
U.S. NAVAL ACADEMY	19-00161-V1NP	44	R
U.S. NAVAL ACADEMY	19-00161-M1NP	44	R
U.S. NAVAL ACADEMY	19-00161-B1NP	44	R

<i>Permit Inspections</i>	Total
Inspection Reports Carried over from Previous Quarter	3
Inspections Conducted During Quarter	9
Total Inspection Reports "In House" During Quarter	12
Inspection Reports Signed out by NRSC	10
Quarterly Average Inspection Report Processing Time in Days	12
Longest Inspection Report Processing Time This Quarter in Days	48
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)

LISTING OF NRMP ACTIONS/INSPECTIONS
2nd QUARTER CY-1999

#	DATE	ACTIVITY	STATE CODE	LIC	TYPE CODE	NEHC/RASO	ACTION
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New Issues: RASO=7 NEHC=0

1	06 Apr 99	Naval Oceanographic Office, Stennis Space Center, MS	23	62306	B2	RASO	Issue
2	06 May 99	Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA	46	68438	J1	RASO	Issue
3	10 May 99	Marine Corps Base Hawaii, Kaneohe Bay, HI	53	00334	J1	RASO	Issue
4	18 May 99	Naval Air Station, Key West, FL	09	00213	J1	RASO	Issue
5	18 May 99	Naval Supply Systems Command, Mechanicsburg, PA	37	00023	T2	RASO	Issue
6	18 May 99	Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI	53	32253	C1	RASO	Issue
7	18 May 99	Naval Air Systems Command, NAS, Patuxent River, MD	19	00019	T3	RASO	Issue

Terminations: RASO = 6 NEHC = 1

1	16 Apr 99	U.S. Naval Forces, Marianas	56	57043	C1	RASO	Termination
2	18 May 99	Fleet and Industrial Supply Center, Norfolk, VA	45	00189	K2	RASO	Termination
3	18 May 99	Public Works Center, Norfolk, VA	45	00187	I1	RASO	Termination
4	18 May 99	Naval Shipyard, Pearl Harbor, HI	53	00311	C1	RASO	Termination
5	18 May 99	Naval Air Systems Command, Arlington, VA	45	00019	T3	RASO	Termination
6	18 May 99	Naval Supply Systems Command, Arlington, VA	45	00023	T2	RASO	Termination

LISTING OF NRMP ACTIONS/INSPECTIONS
2nd QUARTER CY-1999

#	DATE	ACTIVITY	STATE CODE	UIC	TYPE CODE	NEHC/ RASO	ACTION
1	01 Apr 99	Naval Dental Research Institute, Great Lakes, IL	12	65786	41	NEHC	Termination

Amendments: **RASO = 8 NEHC =7**

1	03 Mar 99	Naval Oceanographic Office, Stennis Space Center, MS	23	62306	B1	RASO	Amendment
2	26 Mar 99	Naval Weapons Station, Concord, CA	04	60036	B1	RASO	Amendment
3	06 Apr 99	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	Q1	RASO	Amendment
4	20 Apr 99	Navy Mobile Construction Battalion THREE, Port Hueneme, CA	04	55103	I1	RASO	Amendment
5	27 Apr 99	Supervisor of Shipbuilding Conversion & Repair Portsmouth, Environ. Det., Charleston, SC	39	64504	J1	RASO	Amendment
6	06 May 99	Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA	46	68438	A1	RASO	Amendment
7	26 Feb 99	Naval Shipyard, Norfolk, VA	45	00181	C1	RASO	Amendment (Corrected Copy)
8	18 May 99	Naval Surface Warfare Center, Indian Head Division, Indian Head, MD	19	00174	P1	RASO	Amendment
1	19 Feb 99	Naval Hospital, Pensacola, FL	09	00203	11	NEHC	Amendment
2	23 Feb 99	Naval Medical Center, Portsmouth, VA	45	00183	11	NEHC	Amendment
3	22 Mar 99	Navy Drug Screening Laboratory, Jacksonville, FL	09	68850	61	NEHC	Amendment
4	02 Apr 99	Naval Medical Research Center Detachment, Lima, Peru	87	44852	41	NEHC	Amendment
5	20 Apr 99	Naval Hospital, Guam	56	68096	11	NEHC	Amendment

**LISTING OF NRMP ACTIONS/INSPECTIONS
2nd QUARTER CY-1999**

#	DATE	ACTIVITY	STATE CODE	UIC	TYPE CODE	NEHC/RASO	ACTION
6	03 May 99	Naval Hospital, Jacksonville, FL	09	00232	11	NEHC	Amendment
7	12 May 99	Naval Medical Research Center Detachment, Lima, Peru	87	44852	41	NEHC	Amendment

Renewals:

RASO = 5 NEHC = 2

1	01 Mar 99	U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP	80	66120	C1	RASO	Renewal
2	24 Mar 99	Public Works Center, Pensacola, FL	09	65114	J1	RASO	Renewal
3	02 Apr 99	Naval Postgraduate School, Monterey, CA	04	62271	H1	RASO	Renewal
4	14 May 99	Space and Naval Warfare Systems Center, Charleston, SC	39	65236	C2	RASO	Renewal
5	18 May 99	Navy Public Works Center, Yokosuka, Japan	80	65115	J1	RASO	Renewal
1	26 Feb 99	Naval Aerospace Medical Research Laboratory, Pensacola, FL	09	66452	41	NEHC	Renewal
2	26 Feb 99	Naval Dental Research Institute, Great Lakes, IL	12	65786	41	NEHC	Renewal

**LISTING OF NRMP ACTIONS/INSPECTIONS
2nd QUARTER CY-1999**

#	DATE	ACTIVITY	STATE CODE	UIC	TYPE CODE	NEHC/RASO	ACTION
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Inspections: RASO = 10 NEHC = 3

1	01 Mar 99	Service School Command, Great Lakes, IL	12	0580A	A1	RASO	Inspection
2	03 Mar 99	Shore Intermediate Maintenance Activity, San Diego, CA	04	65918	A1	RASO	Inspection
3	15 Mar 99	USS McKEE (AS-41)	59	68780	A1	RASO	Inspection
4	15 Mar 99	USS McKEE (AS-41)	59	68780	C1	RASO	Inspection
5	24 Mar 99	Naval Station Rota, Spain	77	62863	C1	RASO	Inspection
6	02 Apr 99	USS Emory S. Land (AS-39)	59	20635	A1	RASO	Inspection
7	02 Apr 99	USS Emory S. Land (AS-39)	59	20635	C1	RASO	Inspection
8	27 Apr 99	Trident Refit Facility, Kings Bay, GA	10	44466	A1	RASO	Inspection
9	03 May 99	Shore Intermediate Maintenance Activity, Norfolk, VA	45	32770	A1	RASO	Inspection
10	12 May 99	THIRD Maintenance Battalion, THIRD Force Service Support Group, FMF, Pacific (Okinawa)	63	29021	C1	RASO	Inspection
1	17 Feb 99	Navy Drug Screening Laboratory, San Diego, CA	04	68853	61	NEHC	Inspection
2	26 Feb 99	Naval Hospital, Camp Pendleton, CA	04	68094	11	NEHC	Inspection
3	12 Apr 99	Naval Hospital, Jacksonville, FL	09	00232	11	NEHC	Inspection

**LISTING OF NRMP ACTIONS/INSPECTIONS
2nd QUARTER CY-1999**

#	DATE	ACTIVITY	STATE CODE	LIC	TYPE CODE	NEHC/ RASO	ACTION
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QA Program Actions: RASO = 1 NEHC = 0

1	24 Mar 99	Puget Sound Naval Shipyard, Bremerton, WA	46	00251	QA	RASO	QA PROGRAM APPROVAL
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URRENT NRMPs 2nd 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	16
B	General Industrial (Not Otherwise Coded)	11
C	Calibrator (> 100 Curies)	20
D	Environmental Applications	0
E	Type A Broad Scope	3
F	Type B Broad Scope	1
G	Type C Broad Scope	1
H	Special Nuclear Material SNM (Unsealed, < Critical Mass)	1
I	Portable Gauges	15
J	Analytical Measuring Instruments	25
K	Gas Chromatographs	1
L	DU Munitions Testing (Outdoors/Indoors)	5
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		124

GRAND TOTAL NRMPs 153

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	OVERDUE (?)	INSPECTIONS SCHEDULED OR COMMENTS
1	USS Simon Lake (AS-33)	59	04697	A	1	RASO	EXISTING	21 Nov 97	21 Nov 98		Deferral until available.
2	Naval Postgraduate School, Monterey, CA	04	62271	H	1	RASO	EXISTING	11 Dec 96	12 Dec 98		
3	U.S. Space and Naval Warfare Systems Facility Pacific, Yokosuka, JP	80	66120	C	1	RASO	EXISTING	23 Jan 96	22 Jan 99		
4	USS Frank Cable (AS-40)	59	45255	A	1	RASO	EXISTING	29 Jan 98	29 Jan 99		
5	Navy EOD Technical Center, Indian Head, MD	19	0464A	W	1	RASO	EXISTING	23 Feb 96	23 Feb 99		
6	US Naval Academy, Annapolis, MD	19	00161	B	1	RASO	EXISTING	15 Mar 96	15 Mar 99		
7	US Naval Academy, Annapolis, MD	19	00161	M	1	RASO	EXISTING	15 Mar 96	16 Mar 99		
8	Naval Undersea Warfare Center Division, Keyport, WA	46	00253	A	1	RASO	EXISTING	20 Apr 98	20 Apr 99		
9	Naval Hospital, Charleston, SC	39	68084	I	1	NEHC	EXISTING	21 May 96	22 May 99		
10	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	C	1	RASO	EXISTING	23 May 96	23 May 99		
11	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	T	1	RASO	EXISTING	23 May 96	23 May 99		
12	Navy EOD Technical Center, Indian Head, MD	19	0464A	A	1	RASO	EXISTING	29 May 98	29 May 99		
13	Naval Surface Warfare Center, Carderock Division, West Bethesda, MD	19	61533	E	1	RASO	EXISTING	11 Jun 97	12 Jun 99		
14	Naval Shipyard & Intermediate Maintenance Facility, Pearl Harbor, HI	53	32253	C	1	RASO	EXISTING	14 Jun 96	14 Jun 99		
15	Naval Shipyard, Pearl Harbor, HI	53	00311	A	1	RASO	EXISTING	05 Aug 98	06 Aug 99		
16	Naval Submarine Support Facility, New London, CT	06	68316	C	1	RASO	EXISTING	14 Aug 96	14 Aug 99		
17	Naval Ocean Processing Facility, Whidbey Island, WA	46	68844	B	1	RASO	EXISTING	20 Aug 96	20 Aug 99		
18	Naval Undersea Warfare Center Division, Keyport, WA	46	00253	B	1	RASO	EXISTING	22 Aug 96	23 Aug 99		
19	Puget Sound Naval Shipyard, Bremerton, WA	46	00251	A	1	RASO	EXISTING	28 Aug 98	28 Aug 99		
20	Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA	46	68438	A	1	RASO	EXISTING	01 Sep 98	01 Sep 99		
21	Naval Surface Warfare Center, Indian Head Division, Silver Spring, MD	19	00174	S	1	RASO	EXISTING	20 Sep 96	20 Sep 99		
22	Naval Shipyard, Norfolk, VA	45	00181	C	1	RASO	EXISTING	26 Sep 96	26 Sep 99		
23	Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown, VA	45	45650	B	1	RASO	EXISTING	26 Sep 96	27 Sep 99		
24	Naval Shipyard, Portsmouth, NH	28	00102	A	1	RASO	EXISTING	06 Oct 98	06 Oct 99		

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
25	Naval Submarine Support Facility, New London, CT	06	68316	A	1	RASO	EXISTING	08 Oct 98	08 Oct 99		
26	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	B	1	RASO	EXISTING	10 Oct 96	10 Oct 99		
27	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	Q	1	RASO	EXISTING	10 Oct 96	10 Oct 99		
28	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	W	1	RASO	EXISTING	10 Oct 96	10 Oct 99		
29	Public Works Center, Washington Navy Yard, Washington, DC	08	68925	I	1	RASO	EXISTING	20 Oct 94	20 Oct 99		
30	ISS Simon Lake (AS-33)	59	04697	C	1	RASO	EXISTING	25 Oct 96	25 Oct 99		
31	Public Works Center, San Diego, CA	04	63387	J	1	RASO	EXISTING	02 Nov 93	02 Nov 99		
32	Naval Shipyard, Norfolk, VA	45	00181	A	1	RASO	EXISTING	19 Nov 98	19 Nov 99		
33	Naval Air Systems Command, NAS, Patuxent River, MD	19	00019	T	2	RASO	EXISTING	05 Dec 96	05 Dec 99		
34	Naval Air Warfare Center, Aircraft Division, Patuxent River, MD	19	00421	W	2	RASO	EXISTING	05 Dec 96	05 Dec 99		
35	Naval Air Systems Command, Patuxent River, MD	19	00019	T	3	RASO	EXISTING	05 Dec 96	05 Dec 99		
36	Naval Postgraduate School, Monterey, CA	04	62271	F	1	RASO	EXISTING	11 Dec 96	11 Dec 99		
37	Naval Research Laboratory, Washington, DC	08	00173	E	1	RASO	EXISTING	12 Dec 97	13 Dec 99		
38	Naval Medical Center, Portsmouth, VA	45	00183	3	2	NEHC	EXISTING	14 Dec 98	14 Dec 99		
39	Naval Weapons Station, Concord, CA	04	60036	B	1	RASO	EXISTING	22 Jan 97	23 Jan 00		
40	Strategic Weapons Facility, Atlantic, Kings Bay, GA	10	68733	B	1	RASO	EXISTING	25 Jan 97	25 Jan 00		
41	Public Works Center, Norfolk, VA	45	00187	J	1	RASO	EXISTING	26 Jan 94	26 Jan 00		
42	USS Frank Cable (AS-40)	59	45255	C	1	RASO	EXISTING	31 Jan 97	31 Jan 00		
43	Marine Corps Logistics Base, Barstow, CA	04	38010	C	1	RASO	EXISTING	06 Feb 97	06 Feb 00		
44	USS McKEE (AS-41)	59	68780	A	1	RASO	EXISTING	09 Feb 99	09 Feb 00		
45	Shore Intermediate Maintenance Activity, San Diego, CA	04	65918	A	1	RASO	EXISTING	11 Feb 99	11 Feb 00		
46	Service School Command, Great Lakes, IL	12	0580A	C	1	RASO	EXISTING	12 Feb 97	12 Feb 00		
47	Service School Command, Great Lakes, IL	12	0580A	A	1	RASO	EXISTING	18 Feb 99	18 Feb 00		
48	Navy Mobile Construction Battalion SEVEN-FOUR	23	55488	I	1	RASO	EXISTING	15 Mar 95	14 Mar 00		

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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
49	USS Emory S. Land (AS-39)	59	20635	A	1	RASO	EXISTING	16 Mar 99	16 Mar 00		
50	Naval Hospital, Guam	56	68096	1	1	NEHC	EXISTING	08 Apr 97	08 Apr 00		
51	Trident Refit Facility, Kings Bay, GA	10	44466	A	1	RASO	EXISTING	12 Apr 99	11 Apr 00		
52	Shore Intermediate Maintenance Activity, Norfolk, VA	45	32770	A	1	RASO	EXISTING	20 Apr 99	19 Apr 00		
53	Navy EOD Technical Center, Indian Head, MD	19	0464A	T	1	RASO	EXISTING	29 Apr 97	29 Apr 00		
54	Naval Support Station, Mechanicsburg, PA	37	32414	J	1	RASO	EXISTING	03 May 94	02 May 00		
55	Naval Medical Research Unit #2, Jakarta, Indonesia	62	30851	4	1	NEHC	EXISTING	10 May 97	09 May 00		
56	Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA	45	00178	B	1	RASO	EXISTING	14 May 97	13 May 00		
57	Director, Strategic Systems Programs, Arlington, VA	45	00030	T	1	RASO	EXISTING	22 May 97	22 May 00		
58	Naval Hospital, Camp Lejeune, NC	32	68093	1	1	NEHC	EXISTING	28 May 97	28 May 00		
59	Naval Ordnance Center, Pacific Division, Fallbrook Detachment, Fallbrook, CA	04	00396	L	1	RASO	EXISTING	08 Jun 95	08 Jun 00		
60	Naval Ordnance Center Pacific Division, Port Hadlock Detachment, Port Hadlock, WA	46	32013	L	1	RASO	EXISTING	14 Jun 95	13 Jun 00		
61	Naval Hospital, Bremerton, WA	46	68095	1	1	NEHC	EXISTING	27 Jun 97	27 Jun 00		
62	Marine Corps Logistics Base, Albany, GA	10	67004	W	1	RASO	EXISTING	10 Jul 97	09 Jul 00		
63	Naval Hospital, Groton, CT	06	61726	1	1	NEHC	EXISTING	23 Jul 97	23 Jul 00		
64	Naval Hospital, Newport, RI	38	68086	1	1	NEHC	EXISTING	25 Jul 97	25 Jul 00		
65	Naval Medical Research Center, Bethesda, MD	19	32398	4	1	NEHC	EXISTING	30 Jul 97	29 Jul 00		
66	Naval Aerospace Medical Research Laboratory, Pensacola, FL	09	66452	4	1	NEHC	EXISTING	18 Aug 97	17 Aug 00		
67	Naval Hospital, Pensacola, FL	09	00203	1	1	NEHC	EXISTING	22 Aug 97	22 Aug 00		
68	Naval Medical Research Unit #3, Cairo, Egypt	61	61751	4	1	NEHC	EXISTING	10 Sep 97	09 Sep 00		
69	Space and Naval Warfare Systems Center, San Diego, CA	04	66001	E	1	RASO	EXISTING	16 Sep 98	15 Sep 00		
70	Naval Aviation Depot, Cherry Point, NC	32	65923	S	1	RASO	EXISTING	17 Sep 97	17 Sep 00		
71	Weapons Support Facility, Yorktown, VA	45	00109	J	1	RASO	EXISTING	13 Oct 94	12 Oct 00		

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#	ACTIVITY	STATE	UIC	TYPE CODE	USE CODE	NEHC RASO	EXISTING/NEW ISSUE	LAST INSPECTION	TARGET DATE	OVERDUE (?)	INSPECTIONS SCHEDULED OR COMMENTS
72	Naval Medical Research Center, Detachment-Toxicology (NMRC/TD), Wright-Patterson	34	41817	4	1	NEHC	EXISTING	22 Oct 97	21 Oct 00		
73	Naval Weapons Station, Concord, CA	04	60036	L	1	RASO	EXISTING	26 Oct 95	26 Oct 00		
74	Marine Corps Logistics Base, Albany, GA	10	67004	T	1	RASO	EXISTING	04 Nov 97	04 Nov 00		
75	Naval Shipyard, Portsmouth, NH	28	00102	C	1	RASO	EXISTING	20 Nov 97	19 Nov 00		
76	Weapons Support Facility, Yorktown, VA	45	00109	C	1	RASO	EXISTING	21 Nov 97	20 Nov 00		
77	Naval Medical Center, San Diego, CA	04	00259	1	1	NEHC	EXISTING	03 Dec 97	03 Dec 00		
7b	Public Works Center, Pensacola, FL	09	65114	J	1	RASO	EXISTING	05 Dec 94	04 Dec 00		
79	Naval Hospital, Great Lakes, IL	12	00211	1	1	NEHC	EXISTING	12 Jan 98	12 Jan 01		
80	Navy Drug Screening Laboratory, Great Lakes, IL	12	68849	6	1	NEHC	EXISTING	14 Jan 98	14 Jan 01		
81	Naval Medical Research Center Detachment, Lima, Peru	87	44852	4	1	NEHC	EXISTING	28 Jan 98	27 Jan 01		
82	Naval Hospital, Okinawa, Japan	63	68470	1	1	NEHC	EXISTING	28 Jan 98	28 Jan 01		
83	US Naval Academy, Annapolis, MD	19	00161	V	1	RASO	EXISTING	15 Mar 96	15 Mar 01		
84	Naval Postgraduate School, Monterey, CA	04	62271	J	1	RASO	EXISTING	28 Mar 95	28 Mar 01		
85	Navy Drug Screening Laboratory, Jacksonville, FL	09	68850	6	1	NEHC	EXISTING	13 Apr 98	13 Apr 01		
86	Naval Facilities Engineering Service Center, Port Hueneme, CA	04	0537A	G	1	RASO	EXISTING	01 May 96	01 May 01		
87	Naval Air Weapons Station, China Lake, CA	04	60530	B	1	RASO	EXISTING	08 May 98	08 May 01		
	Public Works Center, Pearl Harbor, HI	53	62755	J	1	RASO	EXISTING	19 May 95	19 May 01		
89	Naval Surface Warfare Center, Crane Division, Crane, IN	13	00164	L	1	RASO	EXISTING	23 May 96	23 May 01		
90	Naval Sea Systems Command, Washington, DC	45	00024	T	1	RASO	EXISTING	17 Jun 98	17 Jun 01		
91	Naval Supply Systems Command, Mechanicsburg, PA	37	00023	T	2	RASO	EXISTING	17 Jun 98	17 Jun 01		
92	Naval Supply Systems Command, Arlington, VA	45	00023	T	1	RASO	EXISTING	17 Jun 98	17 Jun 01		
93	Marine Corps Logistics Base, Albany, GA	10	67004	C	1	RASO	EXISTING	06 Aug 98	05 Aug 01		
94	Marine Corps Logistics Base, Albany, GA	10	67004	T	2	RASO	EXISTING	06 Aug 98	06 Aug 01		

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#	ACTIVITY	STATE	LIC	TYPE CODE	USE CODE	NEHC RASO	EXISTING/NEW ISSUE	LAST INSPECTION	TARGET DATE	OVERDUE (Y)	INSPECTIONS SCHEDULED OR COMMENTS
95	Marine Corps Logistics Base, Albany, GA	10	67004	T	3	RASO	EXISTING	06 Aug 98	06 Aug 01		
96	Puget Sound Naval Shipyard, Bremerton, WA	46	00251	C	1	RASO	EXISTING	28 Aug 98	27 Aug 01		
97	Naval Dosimetry Center, Bethesda, MD	19	48539	8	3	NEHC	EXISTING	15 Sep 98	14 Sep 01		
98	Naval Dosimetry Center, Bethesda, MD	19	48539	9	1	NEHC	EXISTING	15 Sep 98	14 Sep 01		
99	National Naval Dental Center, Bethesda, MD	19	0608A	4	1	NEHC	EXISTING	16 Sep 98	15 Sep 01		
100	Space and Naval Warfare Systems Center, San Diego, CA	04	66001	C	1	RASO	EXISTING	16 Sep 98	15 Sep 01		
101	Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division,	39	65236	C	2	RASO	EXISTING	17 Sep 98	16 Sep 01		
102	Naval Command, Control and Ocean Surveillance Center, ISE, East Coast Division,	39	65236	C	1	RASO	EXISTING	18 Sep 98	17 Sep 01		
103	National Naval Medical Center, Bethesda, MD	19	00168	2	1	NEHC	EXISTING	17 Sep 98	17 Sep 01		
104	Naval Surface Warfare Center, Indian Head Division, Indian Head, MD	19	00174	P	1	RASO	EXISTING	20 Sep 96	20 Sep 01		
105	Public Works, Great Lakes, IL	12	65113	J	1	RASO	EXISTING	11 Oct 95	10 Oct 01		
106	Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA	45	00178	S	1	RASO	EXISTING	20 Oct 98	19 Oct 01		
107	Navy Mobile Construction Battalion FIVE, Port Hueneme, CA	04	55115	I	1	RASO	EXISTING	25 Oct 96	25 Oct 01		
108	Naval Air Weapons Station, China Lake, CA	04	68937	I	1	RASO	EXISTING	28 Oct 96	28 Oct 01		
109	Supervisor of Shipbuilding Conversion & Repair Vallejo Environ. Det., Vallejo, CA	04	64487	J	1	RASO	EXISTING	14 Nov 95	13 Nov 01		
110	Naval Oceanographic Office, Stennis Space Center, MS	23	62306	B	1	RASO	EXISTING	07 Dec 98	07 Dec 01		
111	Naval Mobile Construction Battalion SEVEN	23	55117	I	1	RASO	EXISTING	09 Dec 96	09 Dec 01		
112	Naval Construction Training Center, Port Hueneme, CA	04	0612A	I	1	RASO	EXISTING	11 Dec 96	11 Dec 01		
113	31st Naval Construction Regiment, Port Hueneme, CA	04	55752	I	1	RASO	EXISTING	12 Dec 96	12 Dec 01		
114	Naval Construction Training Center, Gulfport, MS	23	65971	I	1	RASO	EXISTING	12 Dec 96	12 Dec 01		
115	Naval Medical Center, Portsmouth, VA	45	00183	1	1	NEHC	EXISTING	14 Dec 98	14 Dec 01		
116	Public Works Center, Guam	56	62395	J	1	RASO	EXISTING	12 Jan 96	12 Jan 02		
117	Navy Public Works Center, Yokosuka, Japan	80	65115	J	1	RASO	EXISTING	24 Jan 96	23 Jan 02		
118	Naval Hospital, Camp Pendleton, CA	04	68094	1	1	NEHC	EXISTING	26 Jan 99	26 Jan 02		

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119	Navy Drug Screening Laboratory, San Diego, CA	04	68853	6	1	NEHC	EXISTING	28 Jan 99	28 Jan 02		
120	USS McKEE (AS-41)	59	68780	C	1	RASO	EXISTING	09 Feb 99	08 Feb 02		
121	Naval Station Rota, Spain	77	62863	C	1	RASO	EXISTING	04 Mar 99	03 Mar 02		
122	USS Emory S. Land (AS-39)	59	20635	C	1	RASO	EXISTING	16 Mar 99	15 Mar 02		
123	Naval Hospital, Jacksonville, FL	09	00232	1	1	NEHC	EXISTING	24 Mar 99	24 Mar 02		
124	THIRD Maintenance Battalion, THIRD Force Service Support Group, FMF, Pacific	63	29021	C	1	RASO	EXISTING	29 Mar 99	28 Mar 02		
125	Marine Corps Base, Camp Lejeune, NC	32	67001	J	1	RASO	EXISTING	11 Apr 96	11 Apr 02		
126	Naval Air Weapons Station, China Lake, CA	04	68937	L	1	RASO	EXISTING	15 Apr 97	15 Apr 02		
127	Naval Mobile Construction Battalion FORTY, Port Hueneme, CA	04	55418	I	1	RASO	EXISTING	15 May 97	15 May 02		
128	Naval Undersea Warfare Center Division, Keyport, WA	46	00253	J	1	RASO	EXISTING	22 Aug 96	22 Aug 02		
129	Navy Mobile Construction Battalion ONE THIRTY-THREE	23	55451	I	1	RASO	EXISTING	09 Sep 97	09 Sep 02		
130	20th Naval Construction Battalion	23	55460	I	1	RASO	EXISTING	10 Sep 97	10 Sep 02		
131	Naval Air Station, North Island, CA	04	00246	J	1	RASO	EXISTING	20 Sep 96	20 Sep 02		
132	Naval Air Weapons Station, China Lake, CA	04	68937	J	1	RASO	EXISTING	28 Oct 96	28 Oct 02		
133	Navy Mobile Construction Battalion FOUR, Port Hueneme, CA	04	55114	I	1	RASO	EXISTING	07 Nov 97	07 Nov 02		
134	Navy Mobile Construction Battalion ONE	23	55101	I	1	RASO	EXISTING	24 Nov 97	24 Nov 02		
135	20th Naval Construction Regiment, Gulfport, MS	23	55460	J	1	RASO	EXISTING	10 Dec 96	10 Dec 02		
136	Public Works Center, Washington Navy Yard, Washington, DC	08	68925	J	1	RASO	EXISTING	11 Dec 96	11 Dec 02		
137	Navy Mobile Construction Battalion THREE, Port Hueneme, CA	04	55103	I	1	RASO	EXISTING	12 Feb 98	12 Feb 03		
138	Naval Construction Battalion Center, Port Hueneme, CA	04	62583	R	1	RASO	EXISTING	01 May 96	02 May 03		
139	Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown,	45	45650	N	1	RASO	EXISTING	26 Sep 96	26 Sep 03		
140	Naval Sea Systems Command Detachment, Radiological Affairs Support Office, Yorktown,	45	45650	N	2	RASO	EXISTING	26 Sep 96	26 Sep 03		
141	Construction Battalion Unit 406, Naval Air Station, Lemoore, CA	04	66650	I	1	RASO	EXISTING	07 Oct 98	07 Oct 03		
142	Marine Corps Air Station, Yuma, AZ	03	62974	J	1	RASO	EXISTING	04 Dec 97	04 Dec 03		

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143	Supervisor of Shipbuilding Conversion & Repair Portsmouth, Environ. Det., Charleston,	39	64504	J	1	RASO	EXISTING	04 Dec 97	04 Dec 03		
144	Naval Air Warfare Center, Aircraft Division, Patuxent River, MD	19	00421	J	1	RASO	EXISTING	19 Mar 98	18 Mar 04		
145	Naval Surface Warfare Center, Dahlgren Division, Dahlgren, VA	45	00178	J	1	RASO	EXISTING	20 Oct 98	19 Oct 04		
146	Navy Environmental and Preventive Medicine Unit #5, San Diego, CA	04	0546A	7	2	NEHC	EXISTING	01 Dec 97	30 Nov 04		
147	Navy Environmental Preventive Medicine Unit #6, Pearl Harbor, HI	53	0545A	7	1	NEHC	EXISTING	26 Jan 98	26 Jan 05		
148	Naval Facilities Engineering Service Center, Fort Hueneme, CA	04	0537A	K	1	RASO	EXISTING	06 May 98	06 May 05		
149	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
150	Naval Oceanographic Office, Stennis Space Center, MS	23	62306	B	2	RASO	NEW ISSUE				Permit Issued 06APR99. Scheduled for first inspection OCT/NOV99
151	Naval Intermediate Maintenance Activity, Pacific Northwest, Silverdale, WA	46	68438	J	1	RASO	NEW ISSUE				Permit Issued 06MAY99. Scheduled for first inspection NOV/DEC99
152	Marine Corps Base Hawaii, Kaneohe Bay, HI	53	00334	J	1	RASO	NEW ISSUE				Permit Issued 10MAY99. Scheduled for first inspection NOV/DEC99
153	Naval Air Station, Key West, FL	09	00213	J	1	RASO	NEW ISSUE				Permit Issued 18MAY99. Scheduled for first inspection NOV/DEC99



NAVY GAMMA RADIOGRAPHER CERTIFICATION PROGRAM

PROGRESS REPORT

CDR Steve Doremus, MSC, USN
OIC - NAVSEADET RASO

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Navy Gamma Radiographer Certification Background

- May 1997: 10CFR34 revision requires independent certification of all gamma radiographers by June 27, 1999.
- June 1998: NRSC requested approval for alternative Navy radiography certification program.
- December 1998: Navy's request denied.

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Navy Radiographer Certification...Continued

- January 1999: Navy decides to use American Society of Nondestructive Testing (ASNT) as our independent certifying agency.
- Navy requests an active role in the process.
 - ◆ Distribute/collect ASNT applications.
 - ◆ Guidance on application completion.
 - ◆ Schedule exam dates and locations.
 - ◆ Administer ASNT exams.

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Navy's Agreement with ASNT & PO&AM

- February 1999: Navy finalizes logistics agreement (Navy's active role in the certification process) with ASNT.
- Develops PO&AM to certify:
 - ◆ 150 gamma radiographers at 13 commands located worldwide.

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Certification Schedule - Phase I February 22 - April 23, 1999

- RASO staff qualifies as Senior Proctors.
- Applications forwarded to commands, returned and verified by RASO, then forwarded to ASNT.
- ASNT issues certification exams to RASO.
- Exams administered at commands by RASO and returned to ASNT for grading.
- ASNT returned exam results to RASO.

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Summary Statistics

- Scheduled: 153
 - ◆ Passed: 125/144 = 87%
 - ◆ Failed: 19/144 = 13%
 - ◆ No-Shows: 9/153 = 06%
- Mean Score: 78 (70 is passing)

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Naval Radiation Safety Committee

Certification Schedule - Phase II
April 26 - June 25, 1999



- RASO distributes exam results and qualification cards to commands.
- Resubmit applications to ASNT by 14 May.
 - ◆ 19 Failures
 - ◆ 8 No-Shows
 - ◆ 2 New Radiographers
- ASNT issues exams to RASO by 21 May.

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Naval Radiation Safety Committee

Certification Schedule - Phase II
...Continued



- RASO administers exams and returns them to ASNT for grading by 15 June.
- ASNT returns exam results to RASO by 22 June.
- RASO distributes exam results and qualification cards by 28 June.

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Questions?

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Naval Radiation Safety Committee

	Scheduled	Passed	Failed	Missed
Shipyards				
- Norfolk NSY	12	10	1	1
- Portsmouth NSY	11	10	0	1
- Puget Sound NSY	18	16	2	0
- Pearl Harbor NSY	15	13	2	0
IMA's				
- USS CABLE	7	6	1	0
- USS LAND	4	2	1	1
- USS MCKEE	9	3	4	2
- SIMA Norfolk	10	8	0	2
- SIMA San Diego	13	13	0	0
- NIMF PACNW Bangor	20	17	2	1
- TRF Kings Bay	13	11	2	0
- NSSF New London	7	5	1	1
Others				
- SSC Great Lakes	13	10	3	0
- EOD Tech. Center	1	1	0	0
- NAVSEADET RASO	1	1	0	0
Totals	154	125	19	9

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**Expenditure of Depleted Uranium (DU)
Rounds at Vieques Inner Training Range,
Puerto Rico**

Prepared by: CDR Farrand, MSC, USN
NAVSEA-04R

Presented by: CDR Higgins, MSC, USN
OPNAV Staff N455

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Chronology of Events

- February 19, 1999
 - ◆ 2 USMC Harrier aircraft expend 263 DU rounds on the Vieques Inner Training Range.
- March 5, 1999
 - ◆ Expenditure first discovered during review of ordnance database.
 - ◆ NRC notified.

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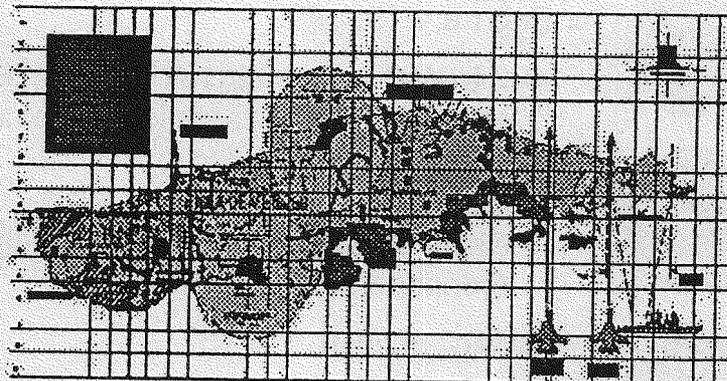
Chronology of Events... *Continued*

- **March 10, 1999**
 - ◆ Joint investigation initiated.
 - ◆ Recovery of DU munitions commenced.
- **April 1, 1999**
 - ◆ Formal report forwarded to NRC.
- **June 1, 1999**
 - ◆ Follow-up report of actions to date to NRC.

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**Vieques Island, Puerto Rico
Inner Training Range**



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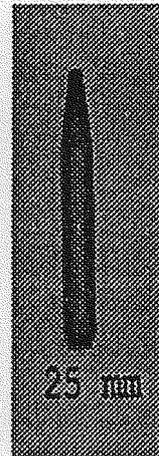
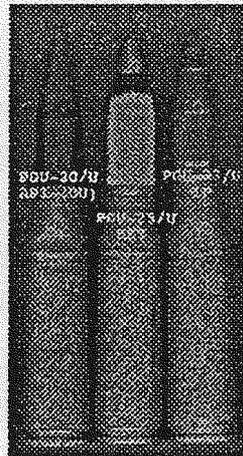
North Convoy Vieques Inner Range



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25 mm PGU-20/U
NALC A979
Armor Piercing
Incendiary (API)
148 grams DU



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Causes of Incident

- Personnel did not follow standard protocol to check all ammunition use restrictions before its issue and receipt.
- This requirement is specified in:
 - ◆ OP-4 "Ammunition Explosives Afloat"
 - ◆ MARFORLANT Order 4000.10G
 - ◆ SURFLANTINST 4080.1E
 - ◆ Notice of Ammunition Reclassification Manual (NAR)

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Corrective Actions

- Marine Corps issued naval message to all ammunition activities emphasizing the conditions of the NRMP. Specifically:
 - ◆ Prohibiting firing the 25mm DU munitions for training, testing, or any other non-combat purpose.
 - ◆ Manufacturing, reworking, or demilitarizing DU munitions was not authorized.
 - ◆ Reporting requirements.

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Investigation

- Marine Corps and Navy joint investigation:
 - ◆ Interviewed all personnel involved in the issue, receipt, and firing of the DU rounds.
 - ◆ Reviewed shipboard and Navy ammunition supply processes.
 - ◆ Report is going through the chain of command for review.

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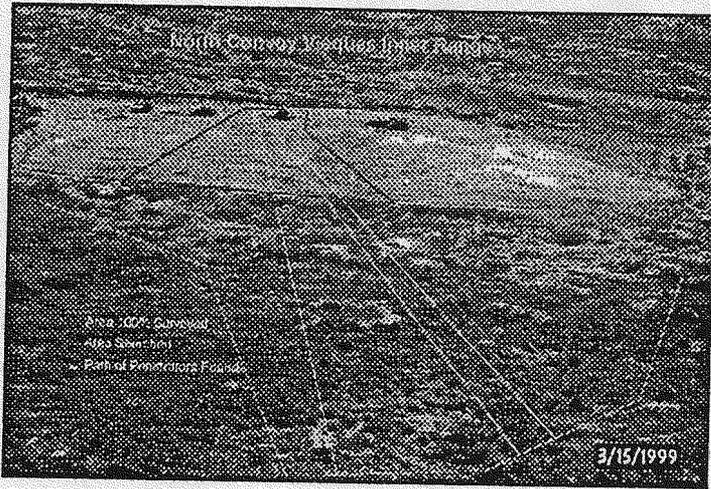
More Corrective Actions

- Navy Instructions and Marine Corps Orders revised to include DU ammunition restrictions.
- Self-Inspection Checklist for DU NRMP compliance forwarded to all storage facilities.
- Marine Corps Ordnance Occupation Courses to include DU training.

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Radiation Surveys Conducted



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Recovery Operations To Date

- 57 Penetrators recovered.
- Approximately 1 cubic foot soil.
- Pieces of metal.
- Continue recovery operations in August / September 1999 during scheduled range refurbishment.

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Questions

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