



DEPARTMENT OF THE NAVY

OFFICE OF THE CHIEF OF NAVAL OPERATIONS
2000 NAVY PENTAGON
WASHINGTON, DC 20350-2000

IN REPLY REFER TO:

5090
N455/15U132356
February 26, 2015

Ms. Orysia Masnyk Bailey
U.S. Nuclear Regulatory Commission
Region I, DNMS
2100 Renaissance Blvd, Suite 100
King of Prussia, PA 19406-2713

Subj: REQUEST FOR INFORMATION CONCERNING NAVAL POSTGRADUATE
SCHOOL DECOMMISSIONING PLAN

The Navy's radioactive materials program is licensed with the Nuclear Regulatory Commission (NRC) under Master Materials License (MML) No. 45-23645-01NA. The Navy is requesting both a delay in submitting a decommissioning plan and an alternate schedule for submittal of the decommissioning plan for Naval Radioactive Material Permit (NRMP) No. 04-62271-D1NP at Naval Postgraduate School (NPS), Monterey, CA. pursuant to 10 CFR 30.36(g)(2). A decommissioning plan will be required for the NPS NRMP.

Pursuant to our request you submitted a request for additional information answered below and in the enclosures.

Item No. 1: List the Atomic Energy Commission (AEC) and NRC license numbers that were in place for the NPS before the Navy was issued a Master Materials License.

Response: See enclosure (1), the preliminary information from the contractor performing the Historical Radiological Assessment (HRA).

Item No. 2: List the types, amounts, and forms of radioactive material used at the NPS.

Response: See enclosure (1), the preliminary information from the contractor performing the HRA.

Item No. 3: List the authorized uses of radioactive material at the NPS.

Response: See enclosure (1), the preliminary information from the contractor performing the HRA. The command possessed a broad scope license from 1957. All materials possessed were utilized for the

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research, development and instruction mission of the school. The AGN-201 research reactor was used for research and development of nuclear instrumentation and radiation detection. The reactor and all associated equipment were transferred to California Polytechnic State University under NRC oversight.

Item No. 4: List the locations where radioactive material was used at the NPS.

Response: See enclosure (1), the preliminary information from the contractor performing the HRA. Radioactive material was likely used in Halligan Hall (Bldg. 234) and Root Hall (Bldg. 235) in addition to the Spanagel Hall areas listed in the enclosure. A complete listing of locations where radioactive material was used is to be addressed in the HRA. The AGN-201 research reactor was located in a now demolished building currently at the site of Watkins Hall (Bldg. 245). Enclosure (2) provides a current map of the base.

Item No. 5: Provide a current inventory of licensed material at the NPS.

Response: Enclosure (3) provides radioactive material inventory current as of 23 February 2015. The NRMP materials will be transferred in late April 2015 as Low Level Radioactive Waste (LLRW). Of the remaining radioactive material only the instructional and historic material will be retained (pending acceptance of the waste broker for LLRW disposal). The retained material is either exempt from licensing or generally licensed.

Item No. 6. Provide the date when you estimate decommissioning will be completed at the NPS. The NRC is granting an extension for completion of decommissioning and this is the date we will use for the extension.

Response: 31 March 2028

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If you have additional questions, please do not hesitate to contact me via telephone at (703) 695-5259 or through electronic mail at douglas.w.fletcher@navy.mil.

Sincerely,

A handwritten signature in dark ink, appearing to read 'D. W. Fletcher', with a long horizontal stroke extending to the right.

D. W. FLETCHER
CDR, Medical Service Corps,
United States Navy
Executive Secretary
Naval Radiation Safety Committee

Enclosure: 1. Preliminary Information from the Contractor
Performing the HRA
2. Current Map of NPS
3. NPS Radioactive Material Inventory

Copy to: Naval Sea Systems Command (04N)
Naval Sea Systems Command Detachment, Radiological
Affairs Support Office (NAVSEA DET RASO)

Naval Postgraduate School

Listing of Radioactive Material Licenses 1957-Present

License/ Permit Number	Issuer	Initial Issue Date	Termination Date	Type	Isotope(s) Authorized	Activity	Form	Data Source	Notes
04-02579-01	AEC	3-Jun-57	21-Jun-63					[1]	Navy permit (Permit No. 04- 62271-F1NP). The NPS permit is currently active and authorizes the possession of the same or similar materials and uses of these materials as authorized in the NRC license. Since the activities, materials and facilities at NPS which were authorized under this terminated license, are currently authorized for similar activities under the Navy permit, it is recommended that the terminated sites status of License No. 04- 02579-01 be changed from "open" to "closed". [2]

License/ Permit Number	Issuer	Initial Issue Date	Termination Date	Type	Isotope(s) Authorized	Activity	Form	Data Source	Notes
04-02579-04	AEC	21-Jun-63	24-Nov-87	Broad Scope	1. Any Isotope with Atomic Numbers from 3-83 2. H3 3. Po-210 4. Am-241	1. 200 mCi of each isotope in any form. 2. 20 mCi 3. 1 mCi 4. 1 mCi (Total possession limit 2 Ci)	1. Any Form 2. H-3 as one impurity in He-3 3. Prepared Source 4. Prepared Source	[1], [3]	Bldg.232 Basement Radiochemical Labs Ventilation System Liquid Waste Disposal Converted to F1NP
04-02579-02	AEC		21-Jun-63		K-42 for Physical and Chemical Laboratory Studies			[1]	
04-02579-03	AEC		21-Jun-63		H-3 as a contaminant in He-3			[1]	
C-04449	AEC		30-Jun-61		Reactor Facility?			[1]	
SNM-267	NRC	5-Dec-58	24-Nov-87	SNM	Uranium enriched in U-235	32 gms	Encapsulated fission plate	[1], [4]	Converted to H1NP [5]
SUB-328	AEC		31-Jan-73	Source Material	Natural uranium metal	5 kg		[1], [6]	Converted to SUB-1422 [1]
SNM-965	NRC	20-Jun-74	24-Nov-87	SNM				[1]	Converted to NRMPP 04-62271-H1NP [7]
SUB-01422	NRC	15-Feb-83	24-Nov-87	Source Material	U-238	3.7 kg		[1], [8]	Replaced SUB-328 [1] Converted to NRMPP 04-62271-S1NP [9]
04-62271-F1NP	NRSC	23 Sep 1987	17 Sep 2010	Broad Scope	1. Any Isotope with Atomic Numbers from 3-83 2. Po-210 3. Am-241	1. 200 mCi of each byproduct material with Atomic Nos. 1 through 83, inclusive. 2. 1 mCi 3. 1 mCi (Total possession limit 2 Ci)		[10], [11]	

License/ Permit Number	Issuer	Initial Issue Date	Termination Date	Type	Isotope(s) Authorized	Activity	Form	Data Source	Notes
04-62271- H1NP	NRSC	11 Mar 1988	4 Apr 2002	SNM	U-235	150 gms	Sealed Source, Uranium Dioxide Fission Plate	[12], [13], [14, pp. 12, 16]	Spanagal Hall, Bldg 232, Room 006
04-62271- H2NP	NRSC		2 Nov 1998	SNM	Plutonium	80 gms	Encapsulated as PuBe neutron sources	[15], [16]	
04-62271- J1NP	NRSC	19 Sep 1994	7 Sep 2011	Analytical Instruments	Co-57 - Scitec Model FA1C portable x-ray fluorescence device, Bldg 437 [17] Cd-109 - NITON Corporation XL Model 309 X-ray Fluorescence Analyzer, Bldg. 437 [18]			[17], [19],	
04-62271- S1NP	NRSC	9 Mar 1988	12 Jun 1989	Source Material	U-238			[20], [21]	Converted from SUB-1422 [9]
R-11	AEC	est. 29 Apr 1957		AGN-201 Reactor				[22], [23]	
Generally Licensed Items									
22-12602-03G	NRC			GL	Kr-85	2 mCi [24]	Sealed Source	[25]	TSI Model 3077 Neutralizer used by NPS CIRPAS, Marina, CA. [26]

[1] NRC, "NRC Terminated License Tracking Sys, Search for Naval Postgrad School," *NRC Terminated License Tracking System*, 22-Jan-2014. [Online]. Available: <https://nrctracking.ornl.gov/tlts/keyword.cfm>. [Accessed: 22-Jan-2014].

[2] NRC, "NRC Terminated License Tracking System for 04-02579-01," 08-Sep-2014.

[3] NPS, "Byproduct Material License Number 04-02579-04; renewal of," 27-Apr-1979.

[4] NAVSEADET RASO, "Amendment No. 2 to Source Material License No. SNM-267," 03-Aug-1977.

[5] NAVSEADET RASO, "Conversion to Naval Radioactive Materials (NRMP) Program," 18-May-1987.

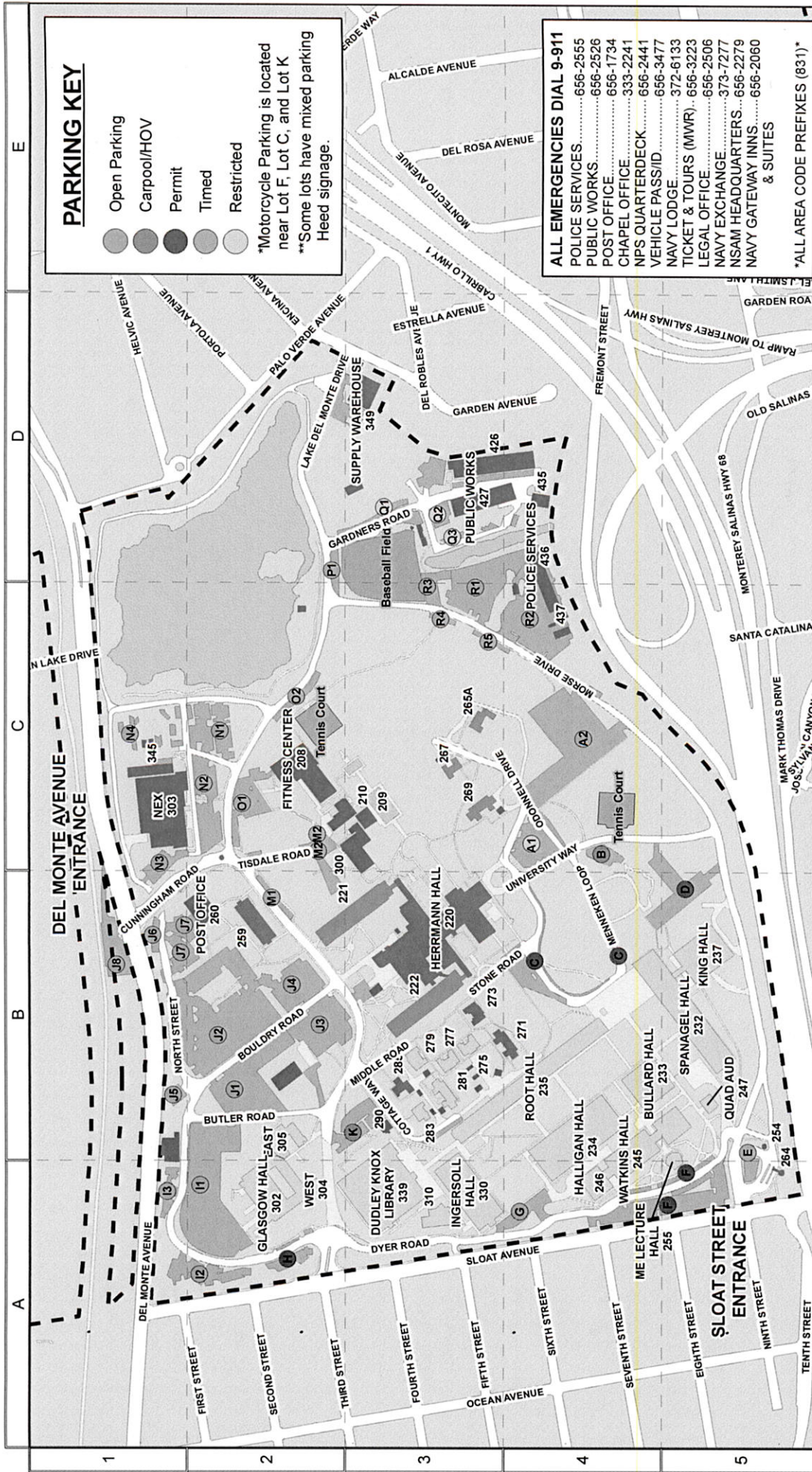
[6] NAVSEADET RASO, "Amendment No. 3 to Source Material License No. SUB-328," 09-Feb-1978.

[7] NPS, "Conversion to Navy Radioactive Material Permit (NRMP) Program," 08-Sep-1987.

[8] RASO, "U.S. Nuclear Regulatory Commission Materials License No. SUB-1422," 03-Mar-1983.

[9] NAVSEADET RASO, "Conversion to Navy Radioactive Material Permit (NRMP) Program (NRC License SUB-1422 to NRMP 04-62271-S1NP)," 18-May-1987.

- [10] CNO, "Navy Radioactive Material Permit No. 04-62271-F1NP, Amendment No. 0," 28-Sep-1987.
- [11] NRSC, "Termination of Naval Radioactive Materials Permit (NRMP) No. 04-62271-F1NP," 17-Sep-2010.
- [12] NRSC, "Navy Radioactive Materials Permit No. 04-62271-H1NP, Amendment No. 0," 11-Mar-1988.
- [13] NRSC, "Naval Radioactive Materials Permit No. 04-62271-H1NP, Amendment No. 7," 04-Apr-2002.
- [14] NAVSEADET RASO, "Naval Postgraduate School, Monterey, Navy Radioactive Materials Permit No. 04-62271-H1NP, Amendment No. 0," 04-Mar-1988.
- [15] NRSC, "Naval Postgraduate School Naval Radioactive Materials Permit No. 04-62271-H2NP, Amendment No. 5," 02-Nov-1998.
- [16] NRSC, "Navy Radioactive Materials Permit No. 04-62271-H2NP, Amendment No. 1," 28-Nov-1990.
- [17] NRSC, "Naval Radioactive Materials Permit No. 04-62271-J1NP, Amendment No. 0," 19-Sep-1994.
- [18] NRSC, "Naval Radioactive Materials Permit No. 04-62271-J1NP," 17-Nov-1997.
- [19] NRSC, "Termination of Naval Radioactive Materials Permit No. 04-62271-J1NP," 07-Sep-2011.
- [20] OPNAV N45, "Navy Radioactive Materials Permit (NRMP) No. 04-62271-S1NP, Amendment No. 0," 09-Mar-1988.
- [21] OPNAV N45, "Navy Radioactive Materials Permit No. 04-62271-S1NP, Amendment No. 1," 12-Jun-1989.
- [22] AEC, "License Authorizing the Receipt, Possession and Operation of Utilization Facility," Atomic Energy Commission, 29-Apr-1957.
- [23] NPS, "Application for Amendment to AEC License R-11 held by the US Naval Postgraduate School," 12-Nov-1958.
- [24] TSI Inc., "Aerosol Neutralizers Models 3012, 3012A, 3054, 3054A, 3077, 3077A, 348002," 2012.
- [25] TSI Inc., "Models 3077_3077A Aerosol Neutralizers," TSI Inc., Sep-2003.
- [26] "NRC General License End User Agreement for TSI Neutralizer," n.d.



BUILDING KEY

ACADEMIC BUILDINGS

Building 310 (Future Reed Hall)	A2
Bullard Hall (233)	B4
Dudley Knox Library (339)	B3
Glasgow Hall (302/304/305)	B2
Halligan Hall (234)	B4
Ingersoll Hall (330)	B3
King Hall (237)	C5
ME Lecture Hall (255)	A5
Quad Auditorium (247)	B5
Root Hall (235)	B3/B4
Spanagel Hall (232)	B5
Watkins Hall (245/246)	B4

STUDENT SERVICES

Cafe Del Monte (290)	B3
Chapel/Travel Office/PSD (300)	C2/C3
Dental Clinic (220)	C3
El Prado Dining (220)	C3
Fitness Center (208)	C2
Navy Exchange (NEX, 303)	C1
Navy Exchange Autoport (345)	C1
Police Services (436)	D4
Post Office (260)	C2
Public Works (426/427)	D3/E3
Recreation Fields/Courts	C2/C4/D3
Tickets & Tours (MWR, 220)	C3
Trident Room Dining (220)	C3

ADMINISTRATIVE SERVICES

Center for Civil-Military Relations (259)	C2
Chaplain's Office (273)	B3
Human Resources (220)	C3
Registrar (220)	C3
Vehicle Registration (254)	B5
Main Gate (264)	B5

LODGING

International Student BOQ	
Herrmann Hall (221/222)	B3/C3
Navy Gateway Inns & Suites	
Herrmann Hall (220)	B3

NAVAL POSTGRADUATE SCHOOL AT NAVAL SUPPORT ACTIVITY MONTEREY

MAIN STATION MAP



Enclosure (2)



MAY 2012

Naval Postgraduate School Radioactive Material Inventory (23 February 2015)

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