



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

IN REPLY REFER TO

6470  
Ser N45S2/10U158301  
10 November 2010

From: Chairman, Naval Radiation Safety Committee  
To: Commander, Naval Air Systems Command

Subj: NAVAL RADIOACTIVE MATERIALS PERMIT NO. 19-00019-T4NP,  
AMENDMENT NO. 3

Ref: (a) OPNAVINST 6470.3  
(b) COMNAVAIRSYSCOM ltr 5104 Ser Air-7.10.1/039 of 3 Aug 10  
(c) CNO ltr 6470 Ser N456S/10U158066 of 17 Feb 10

Encl: (1) Naval Radioactive Materials Permit No. 19-00019-T4NP,  
Amendment No. 3

1. Per reference (a), NAVSEADET RASO has reviewed the request of reference (b) to amend the subject permit. Reference (b) forwarded a new instruction for management of the commodities permit. Enclosure (1) provides a record of the approval.

2. The subject NRMP has been updated to include the requirement that commands shall comply with and maintain a current copy of NAVSEA S0420-AA-RAD-010 per reference (c).

3. Review enclosure (1) carefully to be sure that all conditions are understood. Changes resulting from this amendment are printed in **bold** typeface.

4. For further information contact NAVSEADET RASO at DSN 953-4692 or commercial (757) 887-4692.

L. L. FRAGOSO  
By direction

Copy to:  
NAVSEADET RASO (nsscnavsearoadmin@navy.mil)  
NASC PAX RIVER RSO (elisabeth.holland@navy.mil)  
NASC PAX RIVER ARSO (lowell.karcher@navy.mil)  
COMNAVSEASYSYSCOM (SEA 04N)

**NAVAL RADIOACTIVE MATERIALS PERMIT**

Pursuant to the authority stated in OPNAVINST 6470.3A, Naval Radiation Safety Committee, and in reliance on statements made by the applicant, permission is hereby granted for the acquisition, receipt, possession, use, storage and disposal of radioactive materials listed below subject to the conditions listed in this permit.

|   |   |
|---|---|
| <b>1 - COMMAND</b><br><br>COMMANDER<br>NAVAL AIR SYSTEMS COMMAND<br>RADM WILLIAM A. MOFFETT BUILDING<br>47123 BUSE ROAD, BLDG 2272<br>PATUXENT RIVER, MD 20670-1547 | <b>2 - PERMIT NO.</b><br>19-00019-T4NP<br>is amended in its entirety. |
|   | <b>3 - AMENDMENT NO.</b><br>3   |
|   | <b>5 - EXPIRATION DATE</b><br>31 OCT 2015                             |
|   |   |

**6 - RADIOACTIVE MATERIAL**

- A. Hydrogen 3
  
  
  
  
  
  
  
  
  
  
- B. Krypton 85

**7 - CHEMICAL/ PHYSICAL FORM**

- A. Lockheed Model 42000 PD sealed light source
  
  
  
  
  
  
  
  
  
  
- B. U.S. Radium Corp. Model LAB 562-11A sealed light source

**8 - MAXIMUM QUANTITY AUTHORIZED**

- A. Not to exceed to exceed 1 curie (37 gigabecquerels) per source and 1.65 kilocuries (61.05 terabecquerels) total
  
  
  
  
  
  
  
  
  
  
- B. Not to exceed 25 millicuries per source (925 megabecquerels) and 5.5 curies (203.5 gigabecquerels) total

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9. Authorized Use

- A. and B. For use in drogue assemblies on C130 and KC130 aircraft for night lighting of in-flight refueling.

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CONDITIONS

- 10. Radioactive material may be used on Navy and Marine Corp aircraft and/or stored at Navy and Marine Corp commands.

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11. a. The Radiation Safety Officer for this permit is Elisabeth Holland.
- b. The Assistant Radiation Safety Officer is Lowell T. Karcher.
12. Sealed sources or detector cells containing radioactive material shall not be opened or sources removed from source holders by the command.
13. The command shall conduct a physical inventory every 12 months, or at other intervals approved by the U.S. Nuclear Regulatory Commission, to account for all sources and/or devices received and possessed under the permit. Records of inventories shall be maintained for 5 years from the date of each inventory and shall include the information required in NAVSEA S0420-AA-RAD-010 section II.
14. The command may ship and/or transport radioactive material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material", and "Defense Transportation Regulations, DD 4500-9R."
15. The command shall ensure that the instructions, NA-03-100C/TO 6A8-3-1 and NAVAIR 01-75GAA-2-5 are revised and/or replaced by 30 April 2007. The revised and/or replacement instructions shall describe the safety precautions and requirements associated with the hazards of handling Isolites® containing tritium (H-3), as well as Isolites® containing krypton-85.
16. The command shall comply with and maintain current copy of the NAVSEA S0420-AA-RAD-010, Radiological Affairs Support Program Manual.
17. Except as specifically provided otherwise by this permit, the command shall conduct its program in accordance with the statements, representations, and procedures contained in the documents including any enclosures listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations and procedures in the command's

**SUPPLEMENTARY SHEET**

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application and correspondence are more restrictive than the regulations.

- a. NAVAIRSYSCOM ltr 5100 Ser 7.10.1/211 of 20 Apr 04 (renewal application)
- b. NAVAIRSYSCOM ltr 5104 Air 7.10/383 of 24 Aug 05 (supplemental information)
- c. COMNAVAIRSYSCOM ltr 5104 Ser Air-7.10.1/683 of 29 Sep 09 (change RSO/ARSO)
- d. COMNAVAIRSYSCOM ltr 5104 Ser Air-7.10.1/039 of 3 Aug 10 (Updated instruction, NAVAIRINST 5104.1A dated 31 Aug 09)

DATE:

12 Nov 2010



L. L. FRAGOSO  
Captain, MSC, USN  
Executive Secretary  
Naval Radiation Safety Committee