



DEPARTMENT OF THE NAVY  
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REGION 1

U. S. Nuclear Regulatory Commission  
Region I  
Attn: Ms O. Masnyk-Bailey  
475 Allendale Road  
King of Prussia, PA 19406-1415  
(Attn: Ms. O. Masnyk-Bailey)

45-23645-01NA  
03029462

SUBJECT: TERMINATION OF NAVAL RADIOACTIVE MATERIALS PERMIT NO.  
04-68937-W1NP ISSUED TO NAVAL AIR WARFARE CENTER  
WEAPONS DIVISION, CHINA LAKE

Ladies and Gentlemen:

**EXECUTIVE SUMMARY**

In Nov 2005, Naval Air Warfare Center Weapons Division (NAVAIRWARCEN WPNS DIV), China Lake submitted a notification to the Naval Sea Systems Command Detachment Radiological Affairs Support Office (NAVSEADET RASO) of their intent to terminate NRMP No. 04-68937-W1NP that authorized use of carbon-14. In the notification, NAVAIRWARCEN WPNS DIV also requested additional guidance on decommissioning. NAVSEADET RASO provided the guidance and requested additional information in January 2006. Subsequently, NAVAIRWARCEN WPNS DIV provided the requested information in July and September 2006, including the results of scoping surveys. Based on NAVSEADET RASO's recommendation that the use of carbon-14 by NAVAIRWARCEN WPNS DIV did not result in unmonitored release into the environment and workers (surveyors) will not face any greater hazards than encountered during normal operation, the Naval Radiation Safety Committee concludes that this NRMP termination should proceed using Group 2 decommissioning criteria.

**PERMIT HISTORY AND RADIOACTIVE MATERIAL USE**

Naval Radioactive Materials Permit No. 04-68307-W1NP, issued August 7, 2003, authorizes use of carbon-14 for preparation of radio labeled derivatives of an energetic material for analysis by offsite laboratories holding a valid NRC or Agreement State license. NAVAIRWARCEN WPNS DIV received the carbon-14 labeled glyoxal on January 5, 2004, stored it, and used it in a fume hood

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in Building 5, Room 1613. There is a 10 feet by 13 feet restricted work area in front of the fume hood. After ceasing licensed operations, NAVAIRWARCEN WPNS DIV completed scoping surveys in March 2004, April 2005, and September 2006. The September 2006 scoping survey addressed the exhaust plenums, high efficiency filter holder and filter, and the exhaust ducts that were not included in previous routine surveys. The highest level of carbon-14 noted on a building surface (the floor in front of the fume hood) is a small fraction (1 %) of the license termination screening value (10 CFR 20, Subpart E limit).

#### **RADIONUCLIDES OF CONCERN**

Carbon-14 is the radionuclide of concern.

#### **DECOMMISSIONING GROUP**

The use of carbon-14 did not result in an unmonitored release to the environment and will not require remediation techniques different from normal use nor will workers face any greater hazards from remediation and surveying than is encountered during normal use. The generic screening limit for carbon-14 of  $3.7 \times 10^6$  dpm/100 cm<sup>2</sup> from Appendix B, NUREG 1757, Volume 1, and Revision 1 will be used as the DCGL for releasing the area to unrestricted use. Consequently, this decommissioning is a decommissioning group 2 action.

#### **ENVIRONMENTAL ASSESSMENT**

There is no environmental consequence as a result of this licensed operation. NAVAIRWARCEN WPNS DIV will complete an environmental impact decision memorandum in accordance with 32 CFR 775 DOD Regulations for Implementing the National Environmental Policy Act.

#### **FINAL STATUS SURVEY**

A contractor will perform a MARSSIM final status survey (FSS) in Room 1613, Michelson Laboratory in accordance with a prepared work plan. Radioactive waste generated by operations and decommissioning activities, if any, will be shipped to a licensed waste disposal facility.

#### **REQUIREMENTS AND REQUESTS**

This letter is notification of intent to terminate an NRMP per 10 CFR 30.36(d)(3). Request you advise the Naval Radiation

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Safety Committee if you do not concur with the proposed decommissioning group for license termination or if you desire to review or participate in any decommissioning activities. Please provide your response by 24 November 2006; otherwise, Navy will proceed with decommissioning in a timely manner.

If you have any further question regarding this decommissioning action, please contact Mr. William Morris or Dr. Steve Doremus at NAVSEADET RASO: (757) 887-4692, or william.j.morris2@navy.mil or steve.doremus@navy.mil.



L. L. FRAGOSO

By direction

Copy to (w/encl):  
COMNAVSEASYSOM (04N)  
NAVSEADET RASO  
NAVAIRWARCEN, WPNS DIV China Lake (7J1000D)

This is to acknowledge the receipt of your letter/application dated

10/27/2006, and to inform you that the initial processing which includes an administrative review has been performed.

☒ Amendment 45-23645-01NA There were no administrative omissions. Your application was assigned to a technical reviewer. Please note that the technical review may identify additional omissions or require additional information.

☐ Please provide to this office within 30 days of your receipt of this card

A copy of your action has been forwarded to our License Fee & Accounts Receivable Branch, who will contact you separately if there is a fee issue involved.

Your action has been assigned Mail Control Number 139695.  
When calling to inquire about this action, please refer to this control number.  
You may call us on (610) 337-5398, or 337-5260.