

# RI - DNMS Licensee Event Report Disposition

Licensee:	US Navy		
Event Description:	Lose of Radioactive Material		
License No:	45-23645-DINA 13-00164-TINP	Docket No:	03029402
Event Date:	Nov. 25 2009	Report Date:	Jan 28 2011
		MLER-RI:	2011-006
		HQ Ops Event #:	

1. REPORTING REQUIREMENT

<input type="checkbox"/> 10 CFR 20.1906 Package Contamination <input checked="" type="checkbox"/> 10 CFR 20.2201 Theft or Loss <input type="checkbox"/> 10 CFR 20.2203 30 Day Report <input type="checkbox"/> Other	<input type="checkbox"/> 10 CFR 30.50 Report <input type="checkbox"/> 10 CFR 35.3045 Medical Event <input type="checkbox"/> License Condition
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2. REGION I RESPONSE

<input type="checkbox"/> Immediate Site Inspection <input type="checkbox"/> Special Inspection <input type="checkbox"/> Telephone Inquiry <input type="checkbox"/> Preliminary Notification/Report <input checked="" type="checkbox"/> Information Entered in RI Log <input type="checkbox"/> Report Referred To:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Inspector/Date</td><td></td></tr> <tr><td>Inspector/Date</td><td></td></tr> <tr><td>Inspector/Date</td><td>Orysia Masnyk-Bailey</td></tr> <tr><td>Daily Report</td><td></td></tr> <tr><td>Review at <del>Next</del> Inspection</td><td>Current Biennial - ON GOING</td></tr> </table>	Inspector/Date		Inspector/Date		Inspector/Date	Orysia Masnyk-Bailey	Daily Report		Review at <del>Next</del> Inspection	Current Biennial - ON GOING
Inspector/Date											
Inspector/Date											
Inspector/Date	Orysia Masnyk-Bailey										
Daily Report											
Review at <del>Next</del> Inspection	Current Biennial - ON GOING										

3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event <input checked="" type="checkbox"/> Levels of RAM Involved <input type="checkbox"/> Cause of Event	<input type="checkbox"/> Corrective Actions <input type="checkbox"/> Calculations Adequate <input checked="" type="checkbox"/> Additional Information Requested from Licensee <i>need add'l info on cause of corrective actions</i>
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4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

<input type="checkbox"/> Release w/Exposure > Limits <input type="checkbox"/> Repeated Inadequate Control <input type="checkbox"/> Exposure 5x Limits <input type="checkbox"/> Potential Fatality If any of the above are involved: <input type="checkbox"/> Considered Need for IIT Decision/Made By/Date:	<input type="checkbox"/> Deliberate Misuse w/Exposure > Limits <input type="checkbox"/> Pkging Failure > 10 rads/hr or Contamination > 1000x Limits <input type="checkbox"/> Large# Indivs w/Exp > Limits or Medical Deterministic Effects <input type="checkbox"/> Unique Circumstances or Safeguards Concerns <input type="checkbox"/> Considered Need for AIT
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5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

<input type="checkbox"/> Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose) <input type="checkbox"/> Medical Consultant Used-Name of Consultant/Date of Report: _____ <input type="checkbox"/> Medical Consultant Determined Event Directly Contributed to Fatality <input type="checkbox"/> Device Failure with Possible Adverse Generic Implications <input type="checkbox"/> HQ or Contractor Support Required to Evaluate Consequences
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6. SPECIAL INSTRUCTIONS OR COMMENTS

Non-Public

Inspector Signature: *H. D. Moley*

Date: 2-4-2011

Public-SUNSI REVIEW COMPLETE

Branch Chief Initials: *Mark [Signature]*

Date: 2-4-2011



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

IN REPLY REFER TO

6470  
Ser N45S1/11U158051  
28 January 2011

RECEIVED  
REGION 1  
2011 FEB -3 AM 11: 12

U.S. Nuclear Regulatory Commission  
Division of Nuclear Materials Safety  
Region I  
475 Allendale Road  
King of Prussia, PA 19406

Ladies and Gentlemen:

SUBJECT: LOSS OF LICENSED MATERIAL

Loss of licensed material reportable under Title 10, Code of Federal Regulations, Part 20.2201 occurred with Naval Radioactive Materials Permit (NRMP) No. 13-00164-T1NP, which authorizes distribution and possession of the devices. This NRMP was issued under the authority of Nuclear Regulatory Commission Master Materials License No. 45-23645-01NA. The enclosed report provides information required by Title 10, Code of Federal Regulations, Part 20.2201(b).

Sincerely,

L. L. Fragoso  
Captain, MSC, U.S. Navy  
Executive Secretary  
Naval Radiation Safety Committee

Enclosure: 1. Radioactive Material Loss Report

## RADIOACTIVE MATERIAL LOSS REPORT

1. During an inventory cycle in 2009, Improved Chemical Agent Monitors (ICAMs) Serial Numbers Z47-M-23158, Z47-M-23427, Z47-M-23428, Z47-M-23431, Z47-M-23436, Z47-M-23461, Z47-M-23472, Z47-M-23475, and Z47-M-23478 were discovered missing at RIVERINE SQUADRON ONE. Each ICAM contains a 15 millicurie nickel-63 sealed source. A command investigation was performed to obtain the facts and circumstances surrounding the loss.
2. On 25 November 2009, Crane Division, Naval Surface Warfare Center (NSWC Crane) was notified by RIVERINE SQUADRON ONE that a quantity of nine ICAMs could not be located. The missing ICAMs were fielded to RIVERINE GROUP ONE on 10 July 2007. On or about 16 August 2007, the missing ICAMs were distributed to RIVERINE SQUADRON ONE. NSWC Crane was notified of serial number verification of the missing ICAMs on a semi-annual basis until 25 November 2009.
3. The ICAMs were most likely lost while in storage at RIVERINE SQUADRON ONE Little Creek facilities in Norfolk, Virginia.
4. There is no potential for personnel exposure from the ICAMs.
5. RIVERINE SQUADRON ONE conducted a complete inspection of their Little Creek facilities to include all storage areas. In addition, RIVERINE GROUP ONE facilities at Yorktown Naval Weapons Station were also inspected. The nine missing ICAMs were not located and no evidence of their probable location was apparent.
6. All devices permitted under NRMP 13-00164-T1NP have been removed from the custody of RIVERINE SQUADRON ONE. Additionally, RIVERINE GROUP ONE and all RIVERINE SQUADRONS were directed to stand up a formal accountability program to prevent future losses of licensed material.