

# RI - DNMS Licensee Event Report Disposition

Licensee:	Dept of the Navy		
Event Description:	Loss of Licensed Material		
License No:	4523045-DNA	Docket No:	03059462
Event Date:	01/08/14	Report Date:	01/19/14
		MLER-RI:	2015-006
		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 style="width: 100%;"> <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></td></tr> </table> <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Daily Report  <input type="checkbox"/> Review at Next Inspection         </div> </div>	Inspector/Date		Inspector/Date		Inspector/Date	
Inspector/Date							
Inspector/Date							
Inspector/Date							

## 3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event <input checked="" type="checkbox"/> Levels of RAM Involved <input checked="" type="checkbox"/> Cause of Event	<input checked="" type="checkbox"/> Corrective Actions <input type="checkbox"/> Calculations Adequate <input type="checkbox"/> Additional Information Requested from Licensee
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## 4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

*NA*

☐ Release w/Exposure > Limits  
☐ Repeated Inadequate Control  
☐ Exposure 5x Limits  
☐ Potential Fatality  

If any of the above are involved:

☐ Considered Need for IIT  

Decision/Made By/Date:

☐ Deliberate Misuse w/Exposure > Limits  
☐ Pkgng Failure > 10 rads/hr or Contamination > 1000x Limits  
☐ Large# Indivs w/Exp > Limits or Medical Deterministic Effects  
☐ Unique Circumstances or Safeguards Concerns  
☐ Considered Need for AIT

## 5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

*NA*

☐ Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)  
☐ Medical Consultant Used-Name of Consultant/Date of Report: \_\_\_\_\_  
☐ Medical Consultant Determined Event Directly Contributed to Fatality  
☐ Device Failure with Possible Adverse Generic Implications  
☐ HQ or Contractor Support Required to Evaluate Consequences

## 6. SPECIAL INSTRUCTIONS OR COMMENTS

Will review USA Activities @ next biannual (April 2015)

<input checked="" type="checkbox"/> Non-Public <input type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Inspector Signature: Branch Chief Initials:	Date: 2/24/15 Date: 2/24/15
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DEPARTMENT OF THE NAVY  
OFFICE OF THE CHIEF OF NAVAL OPERATIONS  
2000 NAVY PENTAGON  
WASHINGTON, DC 20350-2000

5104  
Ser N45/14U132595  
04 Apr 14

Mr. Shawn Seeley  
License Reviewer  
Division of Nuclear Material Safety  
U.S. NRC Region I  
2100 Renaissance Blvd, Suite 100  
King of Prussia, PA 19406-2713

Subj: LOSS OF LICENSED MATERIAL

Dear Mr. Seeley:

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 No. 19-00019-T5NP, which authorizes distribution and possession of the devices. This permit was issued under the authority of Nuclear Regulatory Commission Master Materials License No. 45-23645-01NA. The Navy reported the material loss to the NRC on 9 January 2014 by phone. The enclosed report provides information required by Title 10, Code of Federal Regulations, Part 20.2201(b).

Sincerely,

D. W. FLETCHER  
CDR, MSC, U.S. Navy  
Executive Secretary  
Naval Radiation Safety Committee

Enclosure: 1. Information Concerning Lost Radioactive Material

Copy To:  
Radiological Affairs Support Office  
(nsscnavsearasoadmin@navy.mil)

## **Information Concerning Lost Radioactive Material**

1. The lost radioactive material consisted of three in flight blade inspection system (IBIS) indicators which was originally located on a MH-53E aircraft. Each IBIS indicator (P/N: 12210-1, S/N: 075, 4370, and 4574) contained one 500 micro-curie Strontium-90 source.
2. On 9 January 2014, three IBIS indicators were reported lost as a result of a mishap on 8 January 2014 involving a MH-53E aircraft that ditched in the Atlantic Ocean during a routine training mission approximately 18 miles off the coast of Virginia. Four IBIS pressure indicators were recovered during salvage operations and will be returned to the manufacturer, General Nucleonics. It is likely that the remaining IBIS indicators were destroyed by the action of the helicopter blades.
3. The sources are most likely lost approximately 18 miles off the coast of Virginia in the Atlantic Ocean.
4. The potential for personnel exposure from these sources is not likely.
5. Actions were taken to recover the material. Four out of seven indicators were recovered. Recovery of the three remaining indicators is improbable given that they were likely destroyed and the sources are quite small.
6. No preventive measures will be taken for this incident. The IBIS is necessary for the safety of the aircrew and aircraft mishaps, while rare, cannot all be prevented. The IBIS pressure indicators were lost because of a serious mishap resulting in the loss of three lives. A Mishap Investigation Board has been convened and will determine the likely cause(s) of the incident and ensure appropriate actions are taken to minimize future mishaps.