

RI - DNMS Licensee Event Report Disposition

Licensee:	Dept of the Navy				
Event Description:	Loss of Licensed Material				
License No:	45-236450NA	Docket No:	03009462	MLER-RI:	2015-007
Event Date:	11/04/13	Report Date:	11/05/13	HQ Ops Event #:	49504

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 style="width: 50%;"></td> </tr> <tr> <td>Inspector/Date</td> <td></td> </tr> <tr> <td>Inspector/Date</td> <td></td> </tr> <tr> <td></td> <td>Daily Report</td> </tr> <tr> <td></td> <td>Review at Next Inspection</td> </tr> </table>	Inspector/Date		Inspector/Date		Inspector/Date			Daily Report		Review at Next Inspection
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Inspector/Date											
	Daily Report										
	Review at Next Inspection										

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

<input type="checkbox"/> Release w/Exposure > Limits <input type="checkbox"/> Repeated Inadequate Control <input type="checkbox"/> Exposure 5x Limits <input type="checkbox"/> Potential Fatality <input type="checkbox"/> 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"/> Pkgng 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

Will review USA Actions @ next Biennial (April 2015)

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

5104
Ser N45/13U139826
05 Dec 2013

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 material was reported lost on 05 November 2013 under Event Report 49504. The enclosed report provides information required by Title 10, Code of Federal Regulations, Part 20.2201(b).

Sincerely,

A handwritten signature in black ink, appearing to read "D. L. Davis-Urgo".

D. L. DAVIS-URGO
Captain, MSC, U.S. Navy
Executive Secretary
Naval Radiation Safety Committee

Enclosure: 1. Information Concerning Lost Radioactive Material

Copy To:
Radiological Affairs Support Office
(nsscnavsearoadmin@navy.mil)
NRC (shawn.seeley@nrc.gov)

Information Concerning Lost Radioactive Material

1. The lost radioactive material consisted of one in flight blade inspection system (IBIS) which was originally located on a CH-53E aircraft. The IBIS (P/N: 12210-1, S/N: 4157) contained one 500 micro-curie Strontium-90 source.
2. On 04 November 2013, an IBIS was lost during a flight between Naval Air Station, Jacksonville and a ship at sea. Shortly after take off, the co-pilot window departed the aircraft and then struck three rotor blades and sheared the IBIS off of the #5 main rotor blade. The damage and loss were first noticed during post-flight inspection. It is likely that the IBIS was destroyed by the action of the helicopter blades. Public exposure risk is minimal because the crew reported that the window departed while flying over the St Johns River.
3. The most likely disposition of the source is in the river.
4. The potential for personnel exposure from this source is not likely.
5. No actions were taken to recover the material because recovery is improbable given that the device was likely destroyed and the source is quite small. The area is also not within Federal jurisdiction.
6. No preventive measures can be taken at this time. The IBIS is necessary for the safety of the aircrew, and aircraft mishaps, while rare, cannot all be prevented.