

# RI - DNMS Licensee Event Report

## Disposition

Licensee:	Dept of the Navy		
Event Description:	Loss of Licensed Material		
License No:	45-236150NA	Docket No:	03009462
Event Date:	11/04/13	Report Date:	11/05/13
		MLER-RI:	2015-007
		HQ Ops Event #:	49504

### 1. REPORTING REQUIREMENT

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

### 2. REGION I RESPONSE

<input type="checkbox"/>	Immediate Site Inspection	Inspector/Date	
<input type="checkbox"/>	Special Inspection	Inspector/Date	
<input type="checkbox"/>	Telephone Inquiry	Inspector/Date	
<input type="checkbox"/>	Preliminary Notification/Report		Daily Report
<input checked="" type="checkbox"/>	Information Entered in RI Log		Review at Next Inspection
<input type="checkbox"/>	Report Referred To:		

### 3. REPORT EVALUATION

<input checked="" type="checkbox"/>	Description of Event	<input checked="" type="checkbox"/>	Corrective Actions
<input checked="" type="checkbox"/>	Levels of RAM Involved	<input type="checkbox"/>	Calculations Adequate
<input checked="" type="checkbox"/>	Cause of Event	<input type="checkbox"/>	Additional Information Requested from Licensee

### 4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

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

### 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

### 6. SPECIAL INSTRUCTIONS OR COMMENTS

Will Review VSA Actions @ next Biennial (April 2015)	
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<input checked="" type="checkbox"/> Non-Public	Inspector Signature:	Date:
<input type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Branch Chief Initials:	Date:



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", is written over the typed name.

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.