

RI - DNMS Licensee Event Report

Disposition

Licensee: DEPT OF THE NAVY

Event Description: LOSS OF LICENSED MATERIAL

License No: 45-236450NA Docket No: 03029462 MLER-RI: LER 2014-002

Report Date: 10/16/14 1/8/14 Report Date: 01/09/15 HQ Ops Event #: 0911114

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 checked="" type="checkbox"/>	Telephone Inquiry + emails	Inspector/Date	<u>S. Luby 1/14/14</u>
<input type="checkbox"/>	Preliminary Notification/Report		Daily Report
<input type="checkbox"/>	Information Entered in RI Log	<u>April 2015</u>	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 checked="" 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

☐ Non-Public

Inspector Signature: S. Luby

Date: 10/3/14

☒ Public-SUNSI REVIEW COMPLETE

Branch Chief Initials: (Signature)

Date: 10/6/14

Location of File: G:\REFERENCE\BLANK FORMS\LER FORM.DOC

Rev. 10/12/13

ML15147A696



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

5104
Ser N45/14U132784
16 October 2014

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

G2
45-23645-01NA
03029462

REC'D 10/27/14 07:02

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 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: Naval Sea Systems Command Detachment, Radiological
Affairs Support Office (nsscnvsearasoadmin@navy.mil)

585151
NMSS/RGN1 MATERIALS-002

INFORMATION CONCERNING LOST RADIOACTIVE MATERIAL

1. The lost radioactive material consisted of seven in flight blade inspection system (IBIS) indicators which were originally located on a CH-53 aircraft. Each IBIS indicator (P/N: 12210-1, S/N: 3777, 1147, 4134, 3260, 2574, 1387, and 1168) contained one 500 micro-curie Strontium-90 source.
2. On 11 September 2014, seven IBIS indicators were reported lost as a result of a mishap on 1 September 2014 involving a CH-53 aircraft that crashed as it attempted to land on a ship. The Navy was analyzing feasibility of recovering the aircraft until 10 October 2014, at which point it was determined that the aircraft is probably unsalvageable.
3. The sources are most likely lost approximately 20 nautical miles off the Republic of Djibouti in the Gulf of Aden (coordinates 12 02.15N 043 47.15E).
4. The potential for personnel exposure from these sources is not likely as the ocean depth is reported to be over 3900 feet.
5. 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 aircraft mishap. 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.