

## RI - DNMS Licensee Event Report Disposition

Licensee:	Dept of - Navy		
Event Description:	Loss of Licensed Material		
License No: 45-23645-0	Docket No: 03029462	MLER-RI:	2005-066
Event Date: 2005	Report Date:	HQ Ops Event #:	

**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	<input type="checkbox"/>	Daily Report
<input checked="" type="checkbox"/>	Information Entered in RI Log	<input type="checkbox"/>	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"/>	Pkgng 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
<input type="checkbox"/>	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**

Review During Inspection

Non-Public

Inspector Signature: \_\_\_\_\_

Date: 10/21/2005

Public-SISP REVIEW COMPLETE

Branch Chief Initials: \_\_\_\_\_

Date: 10/25/2005



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

IN REPLY REFER TO

5104  
Ser N455C/N5U9011461  
13 October 2005

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

Gentlemen:

SUBJECT: LOSS OF LICENSED MATERIAL

Loss of licensed material, reportable under Title 10, Code of Federal Regulations, Part 20.2201, occurred with a Vapor Tracer<sup>2</sup> Hand-Held Explosive Detector authorized by Naval Radioactive Materials Permit No. 13-00164-T1NP. The NRMP, which authorizes distribution and possession of the device, was issued under the authority of the Navy's 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

Copy to:  
NAVSURFWARCENDIV Crane  
NAVSEADET RASO

2005 OCT 21 PM 1:47

RECEIVED  
REGION I

## RADIOACTIVE MATERIAL LOSS REPORT

1. The equipment involved was a Vapor Tracer<sup>2</sup> Hand-Held Explosive Detector containing 10 millicuries of nickel-63 (nominal.) The Vapor Tracer<sup>2</sup> is designed to detect explosives and narcotic substances, primarily for access control and checkpoint security.
2. On or about 2 June 2005, base security personnel loaned a Vapor Tracer<sup>2</sup> to security personnel onboard the submarine, USS VIRGINIA during a suspected bomb threat. Base security personnel did not realize, until sometime later, that the Vapor Tracer<sup>2</sup> had not been returned. Base security personnel spoke with personnel onboard the USS VIRGINIA about the missing Vapor Tracer<sup>2</sup> but were unable to locate/recover the missing equipment. Additionally, base security personnel questioned the individual who originally borrowed the unit and had since transferred from the USS VIRGINIA. That individual stated he turned the unit back in.
3. The Vapor Tracer<sup>2</sup> was lost aboard the submarine, USS VIRGINIA.
4. It is highly unlikely that any member of the general public has or will receive any exposure or contamination from the radioactive material because the radioactive source within the detector is well protected against direct access. The Ni-63 foil source is sealed in a detection chamber located inside the housing of the detector. A radioactive material warning label warns personnel of the radioactive source inside the device.
5. Efforts to locate this device will continue via leak test requests of units out in the fleet and monitoring Vapor Tracer<sup>2</sup> arrivals at NAVSURFWARCENDIV Crane. Additionally, the Naval Criminal Investigative Service (NCIS) is currently investigating the loss of this device. If the investigation reveals further information, a follow-up report will be provided.