

RI - DNMS Licensee Event Report Disposition

Licensee:	US Army CECOM				
Event Description:	LOSS OF CONTROL OF A NUCLEAR GAUGE				
License No:	29-01022-14	Docket No:	03029741	MLER-RI:	2009-023
Event Date:	11/30/09	Report Date:	12/3/09	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	S. Hammond / 12-16-09 -
<input type="checkbox"/>	Telephone Inquiry	Inspector/Date	1/22/10
<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:		

REPORT EVALUATION

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

MANAGEMENT DIRECTIVE 8.3 EVALUATION

<input checked="" type="checkbox"/>	Release w/Exposure > Limits	<input checked="" type="checkbox"/>	Deliberate Misuse w/Exposure > Limits
<input checked="" type="checkbox"/>	Repeated Inadequate Control	<input checked="" type="checkbox"/>	Pkging Failure > 10 rads/hr or Contamination > 1000x Limits
<input checked="" type="checkbox"/>	Exposure 5x Limits	<input checked="" type="checkbox"/>	Large# Indivs w/Exp > Limits or Medical Deterministic Effects
<input checked="" type="checkbox"/>	Potential Fatality	<input checked="" 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
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Decision/Made By/Date:

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

<input checked="" type="checkbox"/>	Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)
<input checked="" type="checkbox"/>	Medical Consultant Used-Name of Consultant/Date of Report:
<input checked="" type="checkbox"/>	Medical Consultant Determined Event Directly Contributed to Fatality
<input checked="" type="checkbox"/>	Device Failure with Possible Adverse Generic Implications
<input checked="" type="checkbox"/>	HQ or Contractor Support Required to Evaluate Consequences

SPECIAL INSTRUCTIONS OR COMMENTS

inspection completed (2 SLV NCV's) to be issued follow up

☐ Non-Public

Inspector Signature:

Date: 1/20/10

☒ Public-SUNSI REVIEW COMPLETE

Branch Chief Initials:

Date: 1/26/10

Location of File: G:\Reference\Blank Forms Word\LER FORM.wpd

Rev. 02/25/05

routine inspection
to confirm actions taken

Other Nuclear Material	Event Number: 45543
Rep Org: US ARMY CECOM Licensee: US ARMY CECOM Region: 1 City: FT MONMOUTH State: NJ County: License #: 29-01022-14 Agreement: Y Docket: NRC Notified By: BARRY SILBER HQ OPS Officer: DONG HWA PARK	Notification Date: 12/07/2009 Notification Time: 15:33 [ET] Event Date: 11/30/2009 Event Time: [EST] Last Update Date: 12/09/2009
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(ii) - LOST/STOLEN LNM>10X	Person (Organization): WAYNE SCHMIDT (R1DO) MONTE PHILLIPS (R3DO) BILL VONTILL (FSME)

This material event contains a "Less than Cat 3" level of radioactive material.

Event Text

LOSS OF CONTROL OF A NUCLEAR GAUGE

On November 30, 2009, the US Army Communications and Electronics Command (CECOM) discovered that a licensed nuclear scanning device was missing. [The device location is REDACTED]. The device is an Ohmart VM00055 that is a part of a mobile vehicle and cargo system made by Science Applications International Corporation (SAIC). The source is a 1.6 Ci, CS-137 source with a source number: 3231CG.

* * * UPDATE FROM BARRY SILBER TO DONG PARK AT 1422 ON 12/8/09 * * *

A request made by Headquarters Department of Army Radiation Safety Officer was processed.

Notified R1DO (Schmidt), R3DO (Phillips), FSME (Burgess).

* * * UPDATE FROM BARRY SILBER TO VINCE KLCO AT 1625 ON 12/09/09 * * *

The licensee called to clarify that on November 30, 2009, Fort Drum discovered the device was missing and then an investigation ensued.

On December 7, 2009, Fort Drum successfully notified the US Army CECOM Life Cycle Management Command that a licensed nuclear scanning device was missing. The device is postulated to be located on a maritime security vessel.

Notified R1DO (Schmidt), R3DO (Phillips), FSME (Einberg)

THIS MATERIAL EVENT CONTAINS A "LESS THAN CAT 3" LEVEL OF RADIOACTIVE MATERIAL

Sources that are "Less than IAEA Category 3 sources," are either sources that are very unlikely to cause permanent injury to individuals or contain a very small amount of radioactive material that would not cause any permanent injury. Some of these sources, such as moisture density gauges or thickness gauges that are Category 4, the amount of unshielded radioactive material, if not safely managed or securely protected, could possibly - although it is unlikely - temporarily injure someone who handled it or were otherwise in contact with it, or who were close to it for a period of many weeks. For additional information go to http://www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf

General Information or Other	Event Number: 45545
Rep Org: MISSISSIPPI DIV OF RAD HEALTH	Notification Date: 12/07/2009

Facsimile Header Sheet**U.S. Army CECOM Life Cycle Management Command****Directorate for Safety**

**ATTN: AMSEL-SF-R
Fort Monmouth, NJ
07703-5024**

***Tuesday, January 05, 2010
4:36 PM***

THRU:**TO: Mr. Stephen T. Hammann, NRC Region I****Fax: 1-610-337-5269****Subject: 30-Day Report****From: Barry J. Silber****Pages: 3 *plus this cover page***

Mr. Hammann: -

Enclosed is the 30-day letter report submitted as required by paragraph 20.2201 of Title 10, Code of Federal Regulations, Part 20. The original hard copy letter is being mailed to your Regional Administrator and to you under separate cover.

Thank you for your assistance in this matter.

Please confirm receipt of this facsimile by either return facsimile or by Email to **barry.silber@us.army.mil**

Thank You

Barry J. Silber

Commander
US Army CECOM Life Cycle Management Command
ATTN: AMSEL-SF-R
Fort Monmouth, NJ 07703-5024

Reply info:

**Voice: COM (732) 532-7459
DSN 987-7459
FAX: COM (732) 532-6403
DSN 992-6403
Email: **Barry.silber@us.army.mil****

REPLY TO
ATTENTION OF**DEPARTMENT OF THE ARMY**HEADQUARTERS, U.S. ARMY CECOM LIFE CYCLE MANAGEMENT COMMAND
FORT MONMOUTH, NEW JERSEY 07703-5000

January 5, 2010

Directorate for Safety

U.S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Attention: Regional Administrator

This refers to U.S. Nuclear Regulatory Commission License (NRC) Number 29-01022-14, Docket 030-29741, and to the December 7, 2009 telephone conversation between Mr. Barry J. Silber of our staff and your Ms. Elizabeth Ullrich, NRC Region I, and to Messrs. Dong Park and Vincent Klco of your Headquarters, NRC Operations Center.

This letter is being provided to you as a 30-day report follow-up to the December 7, 2009 verbal notification to your NRC Operations Center as required by paragraph 20.2201, Title 10, Code of Federal Regulations, Part 20.

a. Description of licensed material: The licensed material of concern is a component of the Mobile Vehicle and Cargo Inspection System (VACIS), Serial Number VM00055, manufactured by Science Applications International Corporation. The Mobile VACIS is a truck mounted gamma ray inspection and imaging system incorporating an Ohmart Corporation Model SH-F3 gauge utilizing a solid sealed source containing 1.6 curies of Cesium-137. The sealed source is a Minnesota Mining and Manufacturing Company Model 4F6, Serial Number 3231CG. The Mobile VACIS is assigned to the Commander, U.S. Army Garrison Fort Drum, Directorate of Emergency Services, Physical Security Division, Fort Drum, NY 13602 under Army Radiation Authorization Number A31-0140-DRUM issued by us to Fort Drum for the proper possession and use of the asset by its Force Protection personnel. The primary Radiation Safety Officer (RSO) for this Mobile VACIS asset is the Installation RSO.

b. Circumstances associated with the incident:

(1) On December 7, 2009, we were notified by the Fort Drum Installation RSO that during a program review of the Mobile VACIS Radiation Safety Program on November 30, 2009, the installation safety personnel observed that the Mobile VACIS asset was not located in its designated storage area. (The Mobile VACIS asset of concern had been placed in storage and had not been used for a

considerable time.) An investigation was immediately initiated to determine the whereabouts of the Mobile VACIS.

(2) Transportation personnel were contacted on November 30, 2009 and it was determined that the asset of concern was in the process of being transported to Forces personnel assigned to Fort Drum currently providing support to military operations Outside of the Continental United States (OCONUS). During the period of November 30, 2009 and December 4, 2009, it was determined that the asset was being transferred to Fort Drum Forces personnel without notification being made to Fort Drum radiation safety personnel and identifying the proposed shipment only as a "motor vehicle". A U.S. Department of Transportation (DOT) Hazardous Materials Incident Report, Form DOT F5800.1, has been completed by Fort Drum personnel and is being submitted to the DOT.

(3) Transportation documentation revealed that the asset of concern was being transported via a U.S. cargo vessel to the OCONUS port of operations and then by land to its final destination. The asset left Fort Drum via land on November 17, 2009 and departed via cargo vessel on November 20, 2009, with a port arrival date of December 18, 2009. The asset has since arrived at port and is currently being transported via land to its final destination. The asset has not as yet arrived at its destination, but should arrive within the next week. Our Force Protection and Command Radiation Safety points of contact in the area of operations are currently awaiting this shipment and will take control upon its arrival.

(4) It is to be noted that we instructed Fort Drum Safety personnel to immediately notify all senior management of the seriousness of this issue. In addition, we immediately reported this incident to our senior executive management and command staff, and to our higher headquarters, the U.S. Army Materiel Command and the Headquarters, Department of the Army RSO. In short, all senior military commanders within our chain of command have been notified.

c. Proposed disposition of the licensed material: It is the intent of Fort Drum Forces personnel to use the asset for its intended purpose in their area of operations. The asset will fall under the overall control of the radiation safety program currently supporting other Mobile VACIS assets in the area of operations.

d. Exposures to personnel: No exposures to personnel have occurred as a result of this shipment and none are anticipated.

e. Actions taken to recover the material: The Mobile VACIS asset is to be used for its intended purpose in the area of

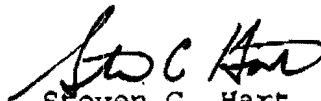
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operations. The asset is to be returned to the U.S. when and if the asset is no longer needed in the area of operation.

f. Procedures that have been, or will be, adopted to assure against recurrence: All RSOs, responsible management and users of the Mobile VACIS and equivalent systems utilizing radioactive material have been notified of this incident, the seriousness of noncompliance actions and that the unauthorized transfer of, or receipt, possession, use and/or transfer of these systems by unauthorized personnel or organizations is in direct violation of NRC Rules and Regulations and the NRC license issued for these systems. This unauthorized transfer will not be tolerated. In addition, all Mobile VACIS customers have been directed to notify their respective management and user organizations that these systems must be possessed and used according to the requirements of the aforesaid NRC license and associated Army Radiation Authorizations issued for this purpose. Noncompliance actions on the part of the system owners possessing these Mobile VACIS systems cannot be tolerated. Any decision made by Mobile VACIS owners no longer requiring these systems and are excess to their needs, must coordinate, and receive approval of potential transfers with our Command as NRC licensee for this system. No movement or transfer of these systems can be made without expressed approval of the NRC licensee.

Our points of contact regarding this matter are Mr. Craig S. Goldberg, RSO, and Mr. Barry J. Silber, Health Physicist, at (908) 239-0517 and (732) 427-7459, respectively.

Sincerely,



Steven C. Hart

Director

Directorate for Safety

Copy Furnished:

Mr. Stephen T. Hammann, Division of Nuclear Materials Safety,
U.S. Nuclear Regulatory Commission, Region I, 475 Allendale Road,
King of Prussia, PA 19406-1415
Commander, U.S. Army Materiel Command, ATTN: AMCPE-SG, 9301 Chapek
Road, Fort Belvoir, VA 22060-5527