

RI - DNMS Licensee Event Report Disposition

Licensee:	Schlumberger-PTC				
Event Description:	Loss of Material				
License No:	29-08636-02	Docket No:	03011319	MLER-RI:	2007-003
Event Date:	03/01/07	Report Date:	03/05/07	HQ Ops Event #:	4322

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><input type="checkbox"/> Daily Report</td> <td></td> </tr> <tr> <td><input type="checkbox"/> Review at Next Inspection</td> <td></td> </tr> </table>	Inspector/Date		Inspector/Date		Inspector/Date		<input type="checkbox"/> Daily Report		<input type="checkbox"/> Review at Next Inspection	
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<input type="checkbox"/> 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 type="checkbox"/> Corrective Actions <input type="checkbox"/> Calculations Adequate <input type="checkbox"/> Additional Information Requested from Licensee
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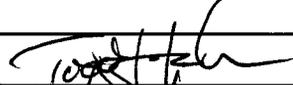
4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

<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"/> Pkging 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

<input type="checkbox"/> Non-Public <input checked="" type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Inspector Signature: <u></u> Branch Chief Initials: <u>Todd Johnson for Jim Dwyer</u>	Date: <u>4/4/07</u> Date: <u>4/4/07</u>
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Schlumberger Technology Corporation

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Schlumberger

April 3, 2007

Administrator
U.S. Nuclear Regulatory Commission, Region 1
475 Allendale Road
King of Prussia, PA 19406

Subject: Subject: Event Notification of Lost Material #43212

To Whom It May Concern:

This letter is in fulfillment of the requirements of 10CFR Part 20.2201 paragraph (b) to provide a written report following notification within 30 days of the loss of licensed material under paragraph (a) of the same part. Schlumberger (Princeton Technology Center) reported a loss of material by a subcontractor on March 5, 2007 (Event 43212).

Description of the Licensed Material

The lost material was 1.2 Curies of Hydrogen-3 as diatomic gas absorbed onto the titanium metal plated target assembly of a sealed source. The sealed source, or "minitron" as described more fully in the NRC Sealed Sources Registry, # NR-316-D-101-S, consists of a hollow ceramic cylinder approximately one inch in diameter and seven inches in length. The minitron is fitted with a metal bulkhead at one end. The minitron (S/N 5066) was mounted in a larger instrument known as a PNG or Pulsed Neutron Generator. The PNG (S/N PNG-AA 1146-01) is a metal cylinder approximately 30 inches long and 1.5 inches in diameter, and contains the minitron and additional high voltage electronics. The PNG was being returned to the Princeton Technology Center (PTC), for repair.

Exposures to Radiation

The radioactive isotope is Hydrogen-3, a weak beta emitter, contained in an undamaged sealed source, minitron, which is also contained in the stainless steel housing of the PNG. No direct exposure can occur, without the ingestion of this material; this occurrence is extremely unlikely.

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REGION 1

Circumstances of the Loss

The material was being transferred under the licensing authority of the country of Indonesia to the Princeton Technology Center in Princeton Junction, NJ. The PNG was packaged in a 120x15x15 cm fiberboard box, marked and labeled according to DOT and NRC instruction. The freight entered the United States on Korean Air (AWB# 180-4039-0991) on February 3, 2007 at DFW (Dallas/Ft. Worth Airport) in Dallas. The customs broker, (Eagle Global Logistics (EGL) cleared the shipment on February 9, 2007 and contracted with Yellow Freight to handle the shipment. The shipment was picked up at DFW by Yellow Freight on Feb. 14, 2007 and assigned tracking number PRO-005-455-410. The shipment was reported as forwarded to the Yellow Terminal in Nashville on Feb. 21. Yellow Freight declared the shipment "all short", meaning not received, at destination (Edison, NJ) on Feb. 23. EGL inquired, with Yellow, about the shipment on Feb. 26. EGL notified Schlumberger Logistics, that Yellow Freight had begun a dock search for this shipment. PTC's Radiation Safety Officer (RSO) was notified on Thursday, March 1, that the shipment could not be located. The NRC hotline is contacted on Monday, March 5th of the event.

Statement of Disposition

The most likely scenario is that the shipment possibly became commingled with a larger palletized load on the trailer that was loaded in Dallas for Nashville. There were 33 separate shipments on that trailer, only one scheduled for local delivery in Nashville. Yellow Freight is in the process of contacting all remaining 32 customers with shipments on that trailer to determine whether any overages or unidentified packages were received on those shipments. The local Nashville shipment has already been cleared. It is most likely that this shipment has been delivered to the wrong consignee or that the shipment remains unidentified in the Yellow Freight system.

Actions Taken

As of today PNG-AA 1146-01 has not been located

- Upper management of EGL and Yellow Freight has been contacted and are directly involved in the recovery effort.
- Photographs of the missing shipment and its contents have been provided to all parties involved in the search effort.
- Yellow Freight has conducted trailer and dock searches at both the Dallas and Nashville terminals.
- PTC's RSO flew to Dallas, TX on Wed. March 7, 2007, to visit the Korean Air and Yellow terminals. The investigation began at Korean Air at DFW, to trace the path of the shipment from the airport to the terminals. A walk-down of the dock areas was conducted, including areas known as OS&D where over-short and damaged goods are kept. Yellow Freight reported that the shipment left Dallas on

February 21 bound for Nashville; TN. PTC's RSO flew to Nashville, TN, to continue the investigation.

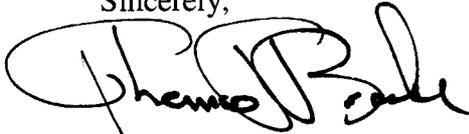
- Interviews conducted at the Nashville facility convey that the freight was not on the trailer from Dallas. Dock checks had been previously conducted and the trailer thoroughly searched. A review of the security videos at the two locations was requested, however, none of the tapes were available for review because of limited retention. Yellow Freight has been provided with photographs of the missing shipment including photographs of its contents.

Further Actions

- Yellow Freight is contacting all customers on the Dallas to Nashville delivery for overstock items and will provide a written report of their findings. Yellow Freight is also conducting searches of specific areas (Over Short & Damaged Goods) at each location nation wide where an unidentified shipment may be located.
- Schlumberger will investigate Yellow's Salvage facility in Kansas City as a possible location for the shipment.

This investigation will continue until the final disposition of this material can be identified. Schlumberger will advise the NRC, of the final resolution, in accordance with 10CFR Part 20.2201 (b) (2) (ii) (d).

Sincerely,

A handwritten signature in black ink, appearing to read "Thomas P. Bracke". The signature is stylized with large, overlapping loops.

Thomas P. Bracke P.E.
Radiation Safety Officer

cc: Jay Russell
Brenda Bray
Ray Dickes

Other Nuclear Material	Event Number: 43212
Rep Org: SCHLUMBERGER - P.T.C. Licensee: SCHLUMBERGER - P.T.C. Region: 1 City: PRINCETON JUNCTION State: NJ County: License #: 29-08636-02 Agreement: N Docket: NRC Notified By: TOM BRACKE HQ OPS Officer: BILL HUFFMAN	Notification Date: 03/05/2007 Notification Time: 11:45 [ET] Event Date: 03/01/2007 Event Time: [EST] Last Update Date: 03/05/2007
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(i) - LOST/STOLEN LNM>1000X	Person (Organization): JOHN CARUSO (R1) GREG MORELL (FSME) ILTAB VIA E-MAIL ()

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

Event Text

PULSE NEUTRON GENERATOR TRITIUM SOURCE MISSING

The licensee reported that a shipment of a pulse neutron generator (PNG), ID #1146-01, containing a 1.5 curie tritium sealed source (s/n 5066) was determined to be lost by the freight forwarder (Yellow Freight) and reported missing in transit to the licensee's NJ facility on 3/1/07. The PNG originated in Indonesia, arrived at Dallas - Fort Worth Airport, and cleared Customs on 2/9/07. The PNG package was picked up by Yellow Freight and was to be shipped to NJ through Nashville TN. It appears that there are some discrepancies with the Yellow Freight tracking number and that the package never arrived at Nashville. A search for the package is still in progress.

The licensee intends to notify NRC Region 1 inspector (Jackson).

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.