

# RI - DNMS Licensee Event Report Disposition

Licensee: Construction Testing and Engineering

Event Description: Non Emergency 10 CFR: 20.2201(a)(1)(i) - Lost/Stolen LNM>1000x

License No:		Docket No:	03035689	MLER-RI:	2010-013
Event Date:	10/26/10	Report Date:	10/26/10	HQ Ops Event #:	

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 <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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2. REGION I RESPONSE

<input type="checkbox"/> Immediate Site Inspection <input checked="" 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 border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Inspector/Date</td> <td style="width: 50%;"></td> </tr> <tr> <td>Inspector/Date</td> <td><u>L. Kauffman / March 2011</u></td> </tr> <tr> <td>Inspector/Date</td> <td></td> </tr> <tr> <td></td> <td>Daily Report</td> </tr> <tr> <td></td> <td>Review at Next Inspection</td> </tr> </table>	Inspector/Date		Inspector/Date	<u>L. Kauffman / March 2011</u>	Inspector/Date			Daily Report		Review at Next Inspection
Inspector/Date											
Inspector/Date	<u>L. Kauffman / March 2011</u>										
Inspector/Date											
	Daily Report										
	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 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"/> Pkgng 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

*Inspection will evaluate corrective actions and review event cause.*

<input type="checkbox"/> Non-Public <input checked="" type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Inspector Signature: <u><i>NTM</i></u> Branch Chief Initials: <u><i>NTM</i></u>	Date: <u>3/10/11</u> Date: <u>3/10/11</u>
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Other Nuclear Material	Event Number: 46363
Rep Org: EVONIK DEGUSSA CORP Licensee: EVONIK DEGUSSA CORP Region: 3 City: LAFAYETTE State: IN County: TIPPECANOE License #: GL Agreement: N Docket: NRC Notified By: EMMA YORK HQ OPS Officer: VINCE KLCO	Notification Date: 10/26/2010 Notification Time: 11:50 [ET] Event Date: 10/06/2010 Event Time: 10:00 [EDT] Last Update Date: 10/26/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(i) - LOST/STOLEN LNM>1000X	Person (Organization): RICHARD SKOKOWSKI (R3DO) MICHELE BURGESS (FSME)

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

**Event Text**

**IMPROPERLY DISPOSED OF TRITIUM SIGNS**

Notified by the licensee that two tritium exit signs were improperly disposed of as trash. The signs were manufactured on April/1999 and the tritium gas was in sealed tubes. The sign manufacturer was NRD-LLC\Penteco and the original source strength was 25 Ci for each sign.

**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](http://www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf)

This source is not amongst those sources or devices identified by the IAEA Code of Conduct for the Safety & Security of Radioactive Sources to be of concern from a radiological standpoint. Therefore is it being categorized as a less than Category 3 source

Other Nuclear Material	Event Number: 46365
Rep Org: CONSTRUCTION TESTING AND ENGINEERIN Licensee: CONSTRUCTION TESTING AND ENGINEERING Region: 1 City: MANASSAS State: VA County: License #: 45-25554-01 Agreement: Y Docket: NRC Notified By: HASSAN TSAJIK HQ OPS Officer: STEVE SANDIN	Notification Date: 10/26/2010 Notification Time: 16:30 [ET] Event Date: 10/26/2010 Event Time: 16:15 [EDT] Last Update Date: 10/26/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 20.2201(a)(1)(i) - LOST/STOLEN LNM>1000X	Person (Organization): JOHN CARUSO (R1DO) CHRISTEPHER MCKENNEY (FSME) ILTAB via email ()

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

**Event Text****TROXLER MOISTURE DENSITY GAUGE STOLEN**

At approximately 1615 EDT on 10/26/10, a vehicle containing a Troxler Moisture Density Gauge, Model #3440, S/N 34482, with 8 mCi Cs-137 and 40 mCi Am-241/Be was stolen at 1800 Alabama Ave, SE, DC. The RSO reported the theft to the DC Police who are on-scene.

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](http://www-pub.iaea.org/MTCD/publications/PDF/Pub1227_web.pdf)

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*Wednesday, October 27, 2010*



**CONSTRUCTION TESTING & ENGINEERING, INC.**

9111-A Industry Drive, Manassas Park, VA 20111  
Tel. (703) 335-0182, Fax: (703) 335-2212

November 18, 2010

**License No. 45-25554-01**

U.S. Nuclear Regulatory Commission  
Region 1  
Attn: Ms. Marie Miller, Chief  
475 Allendale Road  
King of Prussia, Pennsylvania 19406-1415

RECEIVED  
REGION 1  
2010 NOV 22 PM 1:04

Dear MS. Miller:

On October 26, 2010 around 4:00Pm., I received a phone call from my employee, Mr. Nadew Hailu. He informed me that his car at the job site between Savanna and Alabama, along 18<sup>th</sup> street in the Washington, D.C. was stolen. At the time, the nuclear density gauge ( serial #34482, Model: 3440) was in the trunk of his stolen car. Immediately, I notified NRC, and then I went to the job site. I walked around the area to look for the stolen car, unfortunately I could not find the car. Then, on October 27, 2010, I received a phone call from NRC and the Richmond office. I explained the whole situation and then they called Mr. Nadew Hailu a few times and asked him questions about the incident. Around 9:35 a.m. the same day, I had a phone call from Mr. Kent Fryers [REDACTED]. He indicated " A big yellow box with a piece of equipment had found". As soon as, I received his massage on my cell phone, I called and informed the Richmond office. I did exactly as I was told by Mr. Welling's instruction:

*7/10/2011*

" Do not go to the job site until further instruction".

After a few minutes, Mr. Welling called and advised me to go back to the location that the equipment was found. When I arrived at the location. The FBI agents and the police were there. After they throughly examined and test the machine, they gave me the gauge, and we brought it to our office. I performed the leak test and I sent it over night to the troxler. The attached letter is the result that I have received on Friday November 12, 2010.

Respectfully:

Hassan Tajick  
Radiation Safety Officer

## Incident Report

Date of incident: October 26, 2010 (at 4:00Pm)

Place of incident: Washington DC

On 26<sup>th</sup> October, 2010 at about 4 Pm my car (Honda Civic) plate # KDL 8675 was stolen from the job site in Washington DC, SE between the blocks of Savanna and Alabama Street along 18<sup>th</sup> street. At time the vehicle was stolen with all personal properties including nuclear density gauge serial # 34482 and model: 3440, boxed, locked and chained at the rear trunk.

Only very few minute elapsed before the vehicle was disappeared from the street where construction workers car only allowed and where both ends of street was blocked for any access in and out. Upon learning about the incident regular procedure was followed to inform police, NRC and others. Police report could be referred at metropolitan police department Report # 155-667

The same evening attempt was made to recover especially the machine by going to the neighborhoods with no success

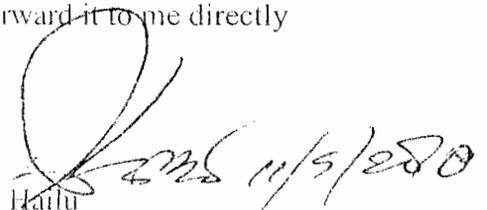
The following day on the 27<sup>th</sup> at around 9:00 Am our office received a call from a person who claimed to have spotted the gauge and box separated at the dump site of an apartment complex where he works around the same neighborhood SE, DC,

Upon informing all concerned authorities about the new development, me alongside CTE's manager headed to the location, made physical inspection including on site leak test, met several authorities including police, FBI and hazmat personal before the gauge was transported back to the office and additional tests were conducted

The vehicle was still missing at time of machine recovery with all other belongings and only found after a week time.

Should you have any further questions or require more details please refer to police report and may forward it to me directly

thanks



Nadew Hailu  
Field inspector, CTE



**Troxler Electronic Laboratories, Inc.**

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Research Triangle Park, NC 27709

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License: NC 032-0182-1

Mostafa Tahimi  
CONSTRUCTION TESTING &  
ENGINEERING, INC.  
9111 A INDUSTRY DRIVE  
MANASSAS PARK, VA 20111

Cust ID: 6281

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**LEAK TEST CERTIFICATE**

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**DEVICE:**

Model: 3440

Serial No: 34482

**SEALED SOURCES:**

Serial No.	Measure Date	Nuclide	GBq	mCi
77-1410	05/29/2003	CS-137	0.296	8
47-12665	02/22/1989	AM-241:BE	1.48	40

**LEAK TEST ANALYSIS:**

Sample collected on: 10/27/2010

Sample analyzed on: 10/29/2010 12:12:08 P      Position: 14

Analyzed by: C. Eftekhar

	ALPHA	BETA-GAMMA
Conversion factor (cpm/Bq)	1.22E+01	1.97E+01
Background measurement (cpm)	1	28
Sample measurement (cpm)	0	13
Activity (Bq)	< MDA	< MDA
Min. Detectable Activity (Bq)	6.2E-01	1.4E+00

This certifies that the leak test results are:

Less than 185 Bq (0.005 uCi)

Greater than 185 Bq (0.005 uCi)

# OCHS' Technical Services

HEREBY CERTIFIES THAT

*Radew S. Hailu*

*HAS SUCCESSFULLY COMPLETED THE REQUIRED RADIOLOGICAL SAFETY TRAINING FOR USE OF THE NUCLEAR MOISTURE-DENSITY GAUGE IN ACCORDANCE WITH MD & NC STATE, USDOT, AND USNRC REGULATIONS*

Subjects included in this course were as follows: Radiological Safety - principles and practices of radiation protection; leak testing procedures; measurement of radioactivity; biological effects of radiation; monitoring techniques and methods; accident, incident, storage, US DOT transportation procedures, and safety precautions. Device Operation - measurement theory, gauge operation, leak testing, field operations, gauge calibration, and routine maintenance.

*Alfred L. Ochs, Ph.D.*

Instructor

V3R1

*November 8, 2002*

Date of Training

Lic. No. MD-05-137-01

NC Reg. No. S 000480



EG 484617113 US



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Mo. Day Year 10 27 10	Scheduled Time of Delivery <input checked="" type="checkbox"/> Noon <input type="checkbox"/> 3 PM	COD Fee \$
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