

RI - DNMS Licensee Event Report Disposition

Licensee:	ECS Mid Atlantic, LLC		
Event Description:	Damaged Gauge		
License No:	45249740	Docket No:	03030402
Event Date:	07/29/08	Report Date:	07/29/08
		MLER-RI:	2008-018
		HQ Ops Event #:	44373

1. REPORTING REQUIREMENT

<input type="checkbox"/> 10 CFR 20.1906 Package Contamination <input type="checkbox"/> 10 CFR 20.2201 Theft or Loss <input type="checkbox"/> 10 CFR 20.2203 30 Day Report <input type="checkbox"/> Other _____	<input checked="" 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 checked="" type="checkbox"/> Review at Next Inspection</td> <td></td> </tr> </table>	Inspector/Date		Inspector/Date		Inspector/Date		<input type="checkbox"/> Daily Report		<input checked="" type="checkbox"/> Review at Next Inspection	
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<input type="checkbox"/> Daily Report											
<input checked="" 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 checked="" 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"/> Pkgg 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

Non-Public

Inspector Signature: _____

Date: _____

Public-SUNSI REVIEW COMPLETE

Branch Chief Initials: Marie Miller MM

Date: 9/4/08



ECS MID-ATLANTIC, LLC

Geotechnical • Construction Materials • Environmental • Facilities

July 29, 2008

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

RECEIVED
JUL 29 1 12 PM '08

Reference: Destruction of Portable Nuclear Gauge, Chantilly, Virginia (NRC Event #44373)

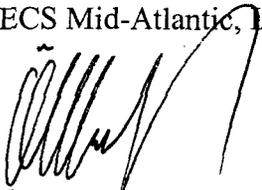
1. This letter is a formal written report addressing the destruction of a portable nuclear gauge owned by ECS Mid-Atlantic, LLC on July 29, 2008. This report is in accordance with 10 CFR 30.50.
2. The sequence of events follows:
 - a. An accident has happened involving Nuclear Gauge #16 (CPN MC1DR serial # M36056763) on the NCE job site (ECS Job Number #13965) at Fort Belvoir at about 1300 on 07/29/08. The full address of the site is: 7152 Heller Loop, Springfield, VA 22150. The gauge contained the following sealed sources:
 - I. 370 MBq (10 mCi) Cs-137 03/13/86
 - II. 1.85 GBq (50 mCi) Am-241/Be 03/06/86
 - b. The gauge was run over by a compactor while backing up, owned by a subcontractor of Clark/Balfour Beatty the site general contractor. It was destroyed while it was under the control of our technician, Samuel Boateng. Mr. Boateng is an authorized user.
 - c. The technician was in control of the nuke and within 10 feet of the gauge. He tried to stop the compactor while it was backing up on the gauge, but he couldn't stop it on time. The technician was also wearing a class III reflective vest.
 - d. The technician informed Mike Dean, the Field Services Manager of ECS, about the incident immediately and cordoned off the 15' radius of an area around the damaged gauge.
 - e. Mike Dean, and the Chantilly Construction Services Manager, Omer Duzyol, arrived the job site at around 3:00 PM.
 - f. The gauge's die cast aluminum case and the rod was broken due to the impact but the sources were in the shielded position. Several surveys have been made by using a survey meter (Troxalert calibrated on 01/03/08) at one meter distance, and the readings, excluding one, were found to be around 0.4 mR/hr range. The reading from the top was found to be around 0.5 mR/hr due to the broken rod.

The rod was taped back in the position to limit the amount of radiation for safe transportation purposes.

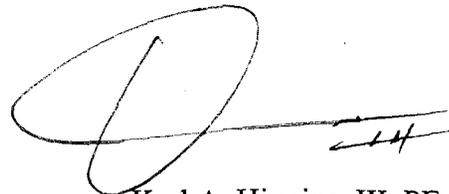
- g. Mr. Steve Sandin of The NRC Operations Center was informed about the incident at 3:38 PM, and the event # 44373 was given. Mr. Randy Ragland of NRC was also given information the same day.
- h. All the pieces of the gauge were placed in the box #16 and it was hauled back to the designated storage area in the Chantilly office around 4:30 PM following the required leak test, the destroyed gauge will be returned to the manufacturer (CPN) via NETS, CPN's authorized distributor in the area, for them to recycle the radioactive sources properly.
- i. A short Radiation Safety Refresher will be incorporated in to the existing monthly safety classes in August '08 for the entire field personnel in order to remind them the importance of maintaining absolute control of the nuclear gauges at all time..

Should you have any questions with respect to the information contained in this letter, or with any of the work we have completed to date, please do not hesitate to contact us at (703)471-8400.

Respectfully,
ECS Mid-Atlantic, LLC



Omer Murat Duzyol
Construction Services Manager

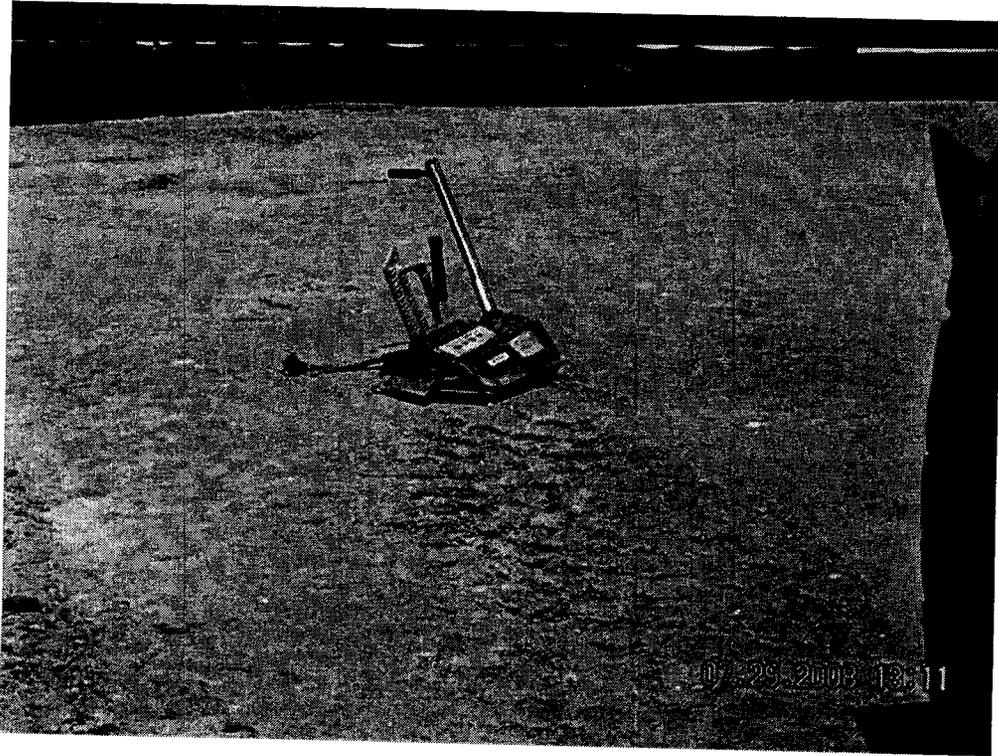


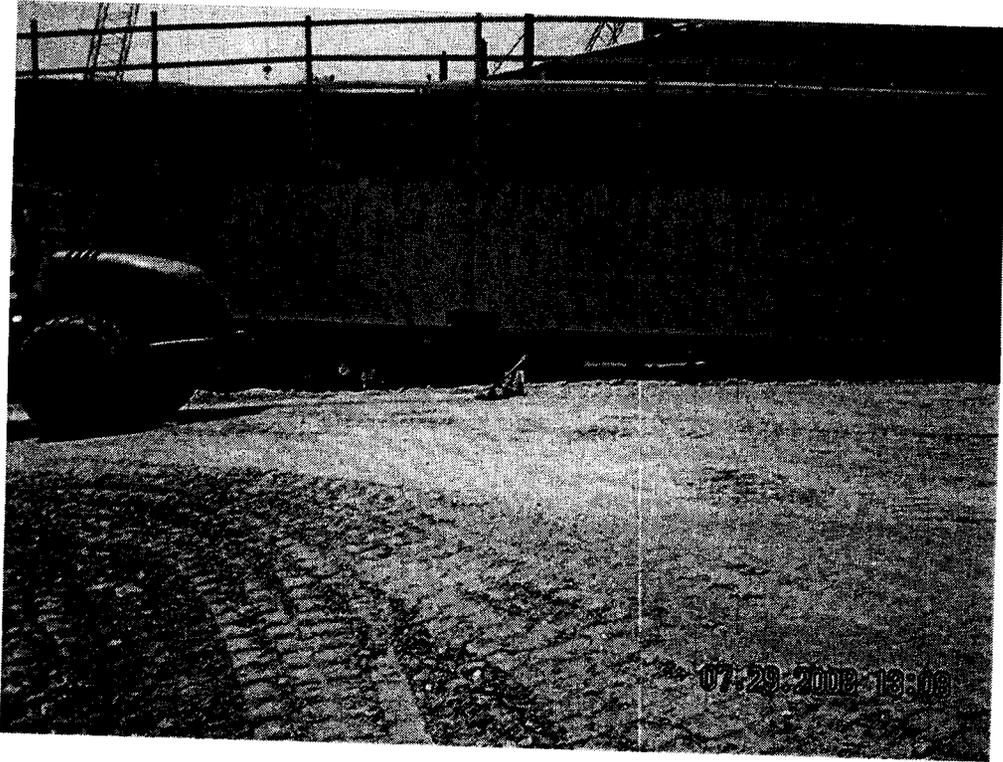
Karl A. Higgins, III, PE
Vice President

Enclosures: Photos

Copies to: U.S. Nuclear Commission
Region 1
Attn: Mr. Randy Ragland
475 Allendale Road
King of Prussia, PA 19406

Mr. Don Head
CBB Site Safety
via e-mail





Other Nuclear Material	Event Number: 44373
Rep Org: ENGINEERING CONSULTING SERVICES Licensee: ENGINEERING CONSULTING SERVICES Region: 1 City: CHANTILLY State: VA County: License #: 45-24974-01 Agreement: N Docket: NRC Notified By: OMER DUZYOL HQ OPS Officer: STEVE SANDIN	Notification Date: 07/29/2008 Notification Time: 15:38 [ET] Event Date: 07/29/2008 Event Time: 14:00 [EDT] Last Update Date: 07/29/2008
Emergency Class: NON EMERGENCY 10 CFR Section: 30.50(b)(2) - SAFETY EQUIPMENT FAILURE	Person (Organization): RICHARD BARKLEY (R1) KEVIN HSUEH (FSME)

Event Text**MOISTURE DENSITY GAUGE RUN OVER BY COMPACTOR**

At approximately 1400 EDT on 07/29/08 a CPN moisture density gauge, model #MC1DR - S/N M36056763, containing a Cs-137 10mCi and Am-241:Be 50 mCi source was run over by a compactor at a construction site at 7152 Heller Loop in Springfield, VA. The sources remained in the safe stored position during the incident, however, the Cesium source rod was broken off. The device was secured and removed from the construction site after a rad survey confirmed readings less than 0.4 mr/hr at 1 meter.