

**LICENSEE EVENT REPORT EVALUATION FORM**

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**EVENT CLASS: MED - MEDICAL EVENT****LICENSEE / REPORTING PARTY INFORMATION:**

Licensee/Reporting party name:	INBERG-MILLER ENGINEERING dba Inberg-Miller Engineers		
License number :	49-19477-01		
Docket number :	030-17754		
Licensee's City of record :	Riverton		
Licensees State of record :	Wyoming		
NRC regulated?	Yes	If so, what Region?	IV
Working under reciprocity?	No		

**EVENT INFORMATION:**

In what City and State did the event occur?	Cheyenne, Wyoming
Event date :	06/05/2012
Discovery date :	06/05/2012
Report date :	06/28/2012
Agreement State reportable?	No
NRC reportable?	Yes
Reporting regulation :	10 CFR 30.50
NMED Item Number :	Event #47996

**ADDITIONAL PARTIES INVOLVED:**

Name :	N/A
License number :	
City :	
State :	

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**EVENT CLASS: MED - MEDICAL EVENT****CONSULTANT INFORMATION (if any):**

Consultant name :	None
Company :	
Who hired consultant?	N/A

**DEVICE INFORMATION:**

Manufacturer :	Troxler 3430
Model number :	3430 Portable Gauge
Serial number :	19539

**RADIATION SOURCE INFORMATION:**

Isotope :	Americium-241 and Cesium-137
Activity :	1.48 GBq (40 mCi) and 0.296 GBq (8 mCi)
Manufacturer :	N/A
Model number :	N/A
Serial number :	#47-15021 & #50-9260

**ADDITIONAL INFORMATION REQUIRED:**

Procedure administered?	N/A
Dose intended?	N/A
Dose administered?	N/A
Target organ?	/A

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**EVENT CLASS: MED - MEDICAL EVENT****NARRATIVE EVENT DESCRIPTION:**

An Inberg-Miller Engineers (EME) technician was in the process of completing the final measurement for the day on June 5, 2012, at ~4:00 pm at a temporary job site project at a project near the intersection of Old Glory Road and Commissary Road, located in Cheyenne, Wyoming. The gauge was in operating mode with the probe fully extended in the ground. A front end loader operator failed to see the gauge and ran over it, crushing the portable gauge housing. The technician was able to visually determine that the probe was not bent and the source containment was not damaged. He pulled the probe into the shielded position and contacted the Radiation Safety Officer for instruction as to the next course of action. The licensee performed a leak test on the gauge in cooperation with Troxler Laboratories. It was confirmed that the sealed source was not compromised and there was no leakage contamination. Based on photographs of the gauge that were sent to Troxler, it was further determined that it was not feasible to repair the gauge for return to service. The gauge will be sent to Troxler Laboratories in Research Triangle Park, North Carolina for disposal. A copy of the leak test results were made available for review.

**CORRECTIVE ACTIONS:**

Swipes were taken and sent to Troxler for analysis. It was determined that the source capsule was not compromised and there was no release of radioactive material. Photographs of the damaged portable gauge were sent to Troxler. Based on the photographic evidence, Troxler determined that it would not be feasible to repair the gauge to a point it could be returned to service. The licensee planned on either disposing the gauge or purchasing a new gauge with exchange credit through Troxler.

The thirty day report dated June 28, 2012, stated the circumstances and related follow-up to the incident resulted in irreparable damage to a portable nuclear density gauge. The gauge was identified as a Troxler Model 3430, Serial Number 19539, containing Am-241/Be and Cs-137. A verbal report was filed with the US Nuclear Regulatory Commission on June 5, 2012, on the date of the incident (Event Number 47996).

Several follow-up telephone conversations were made with the RSO on June 22, 2012, July 9, 2012, and January 28, 2013. In an e-mail correspondence dated January 29, 2013, the RSO stated that the company had postponed making a decision on whether to pay for disposal through Troxler, or request a credit toward the purchase of a new gauge. All indications were that the company would purchase a new gauge and dispose the damaged gauge as part of the transaction.

**RECOMMENDED FOLLOWUP:**

Was a reactive inspection conducted?	No	If so, inspection report number :	NOTE: Inspection reports 03017754/2010-001(EA-10- 074) & 002 remain open.
Is LER recommended for closure?	Yes		
Is this NMED Item Number recommended to reflect "complete"?	Yes		
LER Evaluator:		Branch Chief or Designee Review:	
Name: <u>Muñoz</u> Date: <u>4/26/2013</u>		Name: <u>[Signature]</u> Date: <u>5/4/2013</u>	