

RI - DNMS Licensee Event Report Disposition

Licensee: FOLA Coal Company
Source Holder Malfunction

Event Description:

License No:	47-25325-01	Docket No:	030-33606	MLER-RI:	2010-006
Event Date:	04/30/10	Report Date:	05/03/10	HQ Ops Event #:	45896

1. REPORTING REQUIREMENT

<input type="checkbox"/> 10 CFR 20.1906 Package Contamination <input type="checkbox"/> 10 CFR 20.2201 Theft or Loss <input checked="" 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:	Inspector/Date: <u>Michael Reichard 05/05/2010</u> Inspector/Date: _____ Inspector/Date: _____ <input type="checkbox"/> Daily Report <input checked="" type="checkbox"/> Review at Next Inspection
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3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event <input checked="" type="checkbox"/> Levels of RAM Involved <input 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	<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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Decision/Made By/Date: _____

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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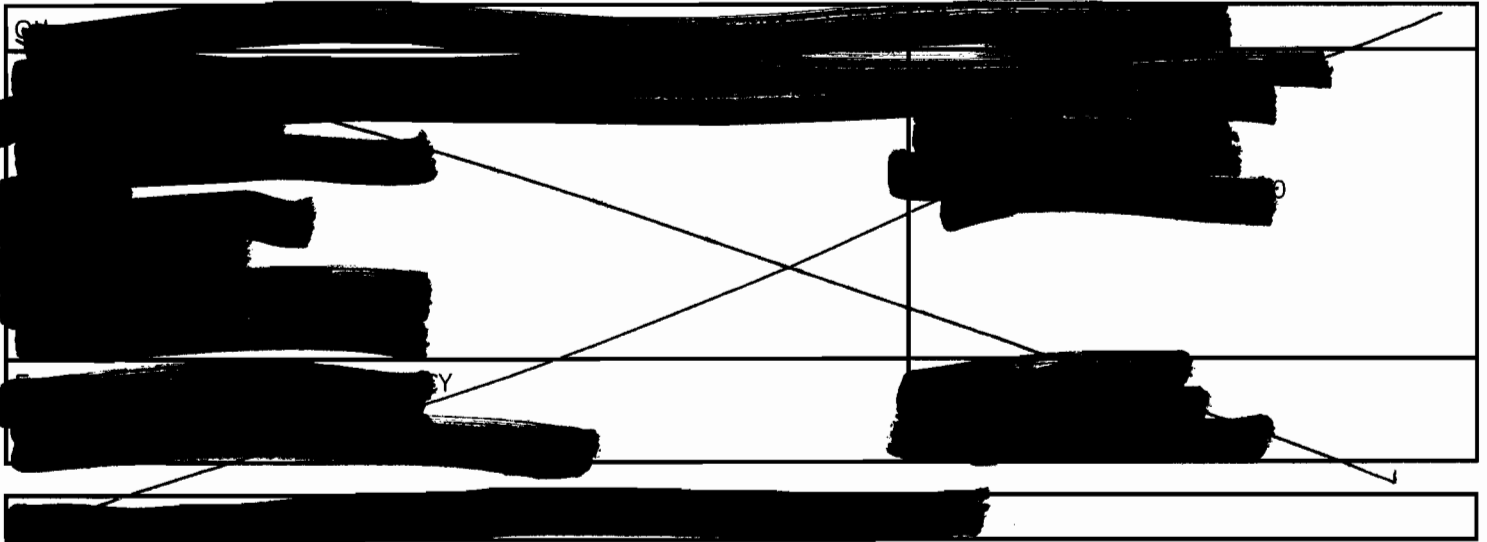
6. SPECIAL INSTRUCTIONS OR COMMENTS

Inspection due 03/2011, this item will be reviewed during this inspection

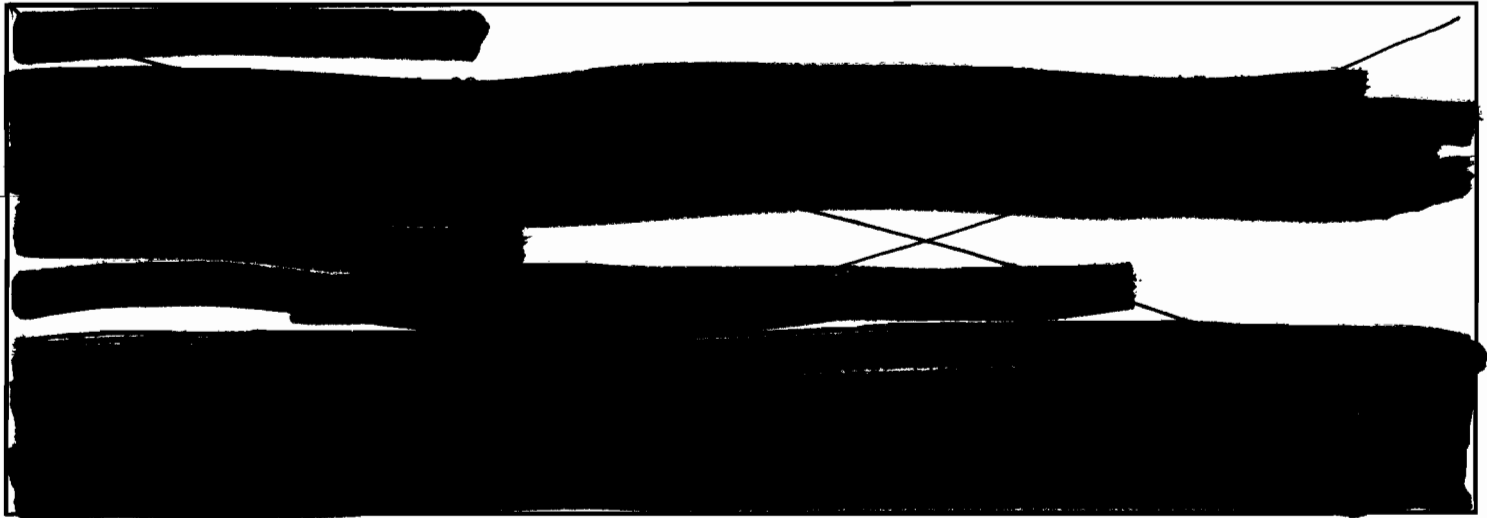
<input type="checkbox"/> Non-Public <input checked="" type="checkbox"/> Public-SUNSI REVIEW COMPLETE	Inspector Signature: <u>Michael C. [Signature]</u> Branch Chief Initials: <u>R.C. [Signature]</u>	Date: <u>06/14/10</u> Date: <u>6/14/2010</u>
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"All personnel have been briefed about the safety implications. The area has been cordoned off. No concerns of exposure to anyone. This is an ongoing investigation."

TOP



Event Text



TOP

Other Nuclear Material	Event Number: 45896
Rep Org: FOLA COAL COMPANY, LLC Licensee: FOLA COAL COMPANY, LLC Region: 1 City: BICKMORE State: WV County: License #: 47-25325-01 Agreement: N Docket: NRC Notified By: JOE RICHARDS HQ OPS Officer: ERIC SIMPSON	Notification Date: 05/03/2010 Notification Time: 15:29 [ET] Event Date: 04/30/2010 Event Time: 12:00 [EDT] Last Update Date: 05/03/2010
Emergency Class: NON EMERGENCY	Person (Organization):

10 CFR Section:
30.50(b)(2) - SAFETY EQUIPMENT FAILURE

WILLIAM COOK (R1DO)
JAMES DANNA (FSME)

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

Event Text

SOURCE HOLDER MALFUNCTION

On Friday, April 30, 2010, at approximately 1200 EDT, while replacing sources in a Gamma-Metrics Model 2000 Bulk Material Analyzer, it was discovered that the right side source holder had dropped three Cf-252 sources back into the stored and shielded position. Two of the three sources have been recovered, but one remains in the body of the instrument inside the safe and shielded compartment. Exposure rate measurements have been taken and no exposure or safety hazards exist. Efforts to retrieve the remaining source will continue on May 6, 2010.

Each Cf-252 source is 0.8 micrograms, which is approximately 4.3 mCi in activity.

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

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Tuesday, May 04, 2010



CONSOL Energy Inc.

CNX Center

1000 CONSOL Energy Drive
Canonsburg, PA 15317

Joseph M. Richards

Manager – Occupational Health & Safety

Phone: (724) 485- 4696

May 27, 2010

Reference: U.S. NRC Event #45896

ATTN: Document Control Desk, Director
Office of Federal and State Materials
and Environmental Management Programs
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

RECEIVED
REGION 1
2010 JUN - 1 AM 11:00

Dear Sirs:

In accordance with 10 CFR, 30.50(c)(2), follow-up written reporting requirements, this letter is in response to Event #45896, which was reported by me to the U.S. NRC Operations Center by phone, on May 3, 2010. This notification involved the failure of the sealed-source “deploy” and “retract” mechanism on a Gamma-Metrics 2000 Bulk Material Analyzer, to function as designed. The probable cause of this failure was the age of the canister which originally housed the Cf-252 sealed source in question, and which broke allowing the source to fall by design, into the stored and shielded position. The use of this device is authorized by the U.S. NRC license number 47-25325-01 under the licensee Fola Coal Company, LLC. Details of the event and corrective actions taken are as follows.

On Friday, April 30, 2010 at approximately 12:00 noon, while in the process of replacing Cf-252 sealed sources in a Gamma-Metric Model 2000 Bulk Material Analyzer located at the load out facility of the Fola Coal Company in Bickmore, WV, it was discovered that the right side canister holding three of the Cf-252 sources had broken allowing the three sources originally contained within the canister, to fall back as designed, into the stored and shielded position.

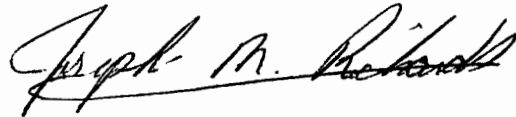
Two of these three sources were recovered from the stored position, however one source (i.e., serial # CF-Z1417 at .8 micrograms) remains in the stored position at this time, despite continuing efforts to retrieve it by SABIA Inc. under their U.S. NRC license #11-27727-01. It should be noted that exposure rate measurements have been taken throughout this event indicating that no exposure or safety hazards exist.

As of today, multiple attempts to retrieve this source have failed. Attempts have included using air pressure, vacuum systems, and multiple cable and line mechanisms designed to fish out the source. A video, fiber optic type camera was tried; however the size of the camera would not allow it to reach the stored area where the source is located. SABIA Inc. has contacted Thermo Gamma-Metrics and they are now looking over what other options are available to remove the source.

We will continue to keep you updated on this issue as a resolution to this issue becomes available. We appreciate your help and continued cooperation. Should you have any questions or concerns, please contact me.

Sincerely,

On Behalf of Fola Coal Company, LLC



Copy to:

Rocky Osborne.....Fola Coal Company, LLC
Michael Reichard.....U.S. NRC Region I Office