

# RI - DNMS Licensee Event Report Disposition

Licensee: American Electric Power  
 Event Description: Safety Equipment Failure

License No: CL-655015-13      Docket No: \_\_\_\_\_      MLER-RI: 2010-002  
 Event Date: 02/08/10      Report Date: 02/09/10      HQ Ops Event #: \_\_\_\_\_

1. REPORTING REQUIREMENT

- |  |   |
|--|---|
| <input type="checkbox"/> 10 CFR 20.1906 Package Contamination<br><input type="checkbox"/> 10 CFR 20.2201 Theft or Loss<br><input type="checkbox"/> 10 CFR 20.2203 30 Day Report<br><input checked="" type="checkbox"/> Other | <input type="checkbox"/> 10 CFR 30.50 Report<br><input type="checkbox"/> 10 CFR 35.3045 Medical Event<br><input type="checkbox"/> License Condition |
|--|---|

2. REGION I RESPONSE

- |  |   |
|--|---|
| <input type="checkbox"/> Immediate Site Inspection<br><input type="checkbox"/> Special Inspection<br><input type="checkbox"/> Telephone Inquiry<br><input type="checkbox"/> Preliminary Notification/Report<br><input checked="" type="checkbox"/> Information Entered in RI Log<br><input type="checkbox"/> Report Referred To: _____ | Inspector/Date _____<br>Inspector/Date _____<br>Inspector/Date _____<br><input type="checkbox"/> Daily Report<br><input type="checkbox"/> Review at Next Inspection |
|--|---|

3. REPORT EVALUATION

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Description of Event<br><input checked="" type="checkbox"/> Levels of RAM Involved<br><input checked="" type="checkbox"/> Cause of Event | <input checked="" type="checkbox"/> Corrective Actions<br><input type="checkbox"/> Calculations Adequate<br><input type="checkbox"/> Additional Information Requested from Licensee |
|--|---|

4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

- |  |  |
|--|--|
| <input type="checkbox"/> Release w/Exposure > Limits<br><input type="checkbox"/> Repeated Inadequate Control<br><input type="checkbox"/> Exposure 5x Limits<br><input type="checkbox"/> Potential Fatality<br><input type="checkbox"/> If any of the above are involved:<br><input type="checkbox"/> Considered Need for IIT<br>Decision/Made By/Date: _____ | <input type="checkbox"/> Deliberate Misuse w/Exposure > Limits<br><input type="checkbox"/> Pkging Failure > 10 rads/hr or Contamination > 1000x Limits<br><input type="checkbox"/> Large# Indivs w/Exp > Limits or Medical Deterministic Effects<br><input type="checkbox"/> Unique Circumstances or Safeguards Concerns<br><input type="checkbox"/> Considered Need for AIT |
|--|--|

MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

- N/A*
- |  |
|--|
| <input type="checkbox"/> Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose)<br><input type="checkbox"/> Medical Consultant Used-Name of Consultant/Date of Report: _____<br><input type="checkbox"/> Medical Consultant Determined Event Directly Contributed to Fatality<br><input type="checkbox"/> Device Failure with Possible Adverse Generic Implications<br><input type="checkbox"/> HQ or Contractor Support Required to Evaluate Consequences |
|--|

SPECIAL INSTRUCTIONS OR COMMENTS

This was a GL device. I talked to Mr. Macknight. The device is now operating normally.

Non-Public      Inspector Signature: Sattor Khan      Date: 3-19-10  
 Public-SUNSI REVIEW COMPLETE      Branch Chief Initials: Steve Miller      Date: 3/31/2010

NRC Notified By: RAY SWAFFORD HQ OPS Officer: DONALD NORWOOD	Last Update Date: 02/09/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 26.719 - FITNESS FOR DUTY	Person (Organization): DAVID AYRES (R2DO)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	100	Power Operation
2	N	Y	100	Power Operation	100	Power Operation
3	N	Y	100	Power Operation	100	Power Operation

**Event Text**

[REDACTED]

[REDACTED] FOR

[REDACTED] test. The [REDACTED] for additional details.

\* \* \* UPDATE FROM RAY SWAFFORD TO DONALD NORWOOD AT 1556 ON 2/9/2010 \* \* \*

Updated information provided by the licensee. Contact the Headquarters Operations Officer for additional details.

Other Nuclear Material	Event Number: 45689
Rep Org: AMERICAN ELECTRIC POWER Licensee: PHILIP SPORN PLANT Region: 1 City: NEW HAVEN State: WV County: MASON License #: CL-655015-13 Agreement: N Docket: NRC Notified By: JERI MACKNIGHT HQ OPS Officer: DONG HWA PARK	Notification Date: 02/09/2010 Notification Time: 09:50 [ET] Event Date: 02/08/2010 Event Time: 10:30 [EST] Last Update Date: 02/09/2010
Emergency Class: NON EMERGENCY 10 CFR Section: 30.50(b)(2) - SAFETY EQUIPMENT FAILURE	Person (Organization): RAY POWELL (R1DO) MARK SHAFFER (FSME)

**Event Text**

SHUTTER ON NUCLEAR GAUGE FAILED TO CLOSE

"Ash hopper nuclear level detector (NLD) on Unit 2 hoppers 9 and 13 (dual source) has its shutter failed in the open position. The gauge is a TN 5197, serial number B8031. The gauge manufacturer (Thermo Electron) had been notified and requested to assess and repair the gauge."

"Isotope: Cs-137  
"Activity: 100 mCi"

No exposure to personnel occurred during this event and the detector is not easily accessible.



**CERTIFIED LETTER**

February 22, 2010

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

Re: Written Follow-Up to Event Notification 45689

Dear Sirs:

This written follow-up event report is submitted in accordance with 10 CFR 30.50(c)(2). The event which occurred on February 8, 2010, 1030, involved an ash hopper nuclear level detector on Unit 2 hoppers 9 and 13 (dual source) that had a shutter failure in the open position (normal operating position). The gauge is a TN 5197, serial number B8031 manufactured by Thermo Electron. The gauge contains 100 mCi of the isotope Cs-137. No individuals were exposed to radiation or to radioactive materials in this event.

The gauge manufacturer, Thermo Electron (now Thermo Fisher Scientific) was contacted and sent a service technician to inspect and repair the gauge on February 16, 2010. The repair of the gauge included unbolting the source housing, turning it upside down, spraying it with lubricant and working the actuator until it moved open and closed smoothly. The lubricant was removed with a cleaner/degreaser and the gauge was final sprayed with dry graphite lubricant and returned to service with the shutter moving smoothly and freely.

If you have any questions regarding this report, please call me at (304) 882-1683.

Sincerely,

  
J.L. MacKnight  
Environmental

C: USNRC, Region II ✓  
Sam Nunn Atlanta Federal Center, Suite 23T85  
61 Forsyth Street, SE  
Atlanta, GA 30303-8931

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RECEIVED  
REGION I