

**Region I
NMSS Licensee Event Report**

Licensee DuPont
 Event Description Stuck Shutter on OHMART
Sealed Source Change

License # 07-00455-29 Docket # MLER-RI 2004-030
 Event Date 9/12/03 Report Date 6/7/04

1. REPORTING REQUIREMENT

<input type="checkbox"/>	10 CFR 20.2201 Theft or Loss	<input type="checkbox"/>	10 CFR 35.33 Misadministration
<input type="checkbox"/>	10 CFR 20.2203 30 Day Report	<input type="checkbox"/>	License Condition
<input checked="" type="checkbox"/>	10 CFR 30.50 Report		
<input type="checkbox"/>	Other _____		

2. REGION I RESPONSE

<input type="checkbox"/>	Immediate Site Inspection	Inspector/Date	<u> </u>
<input type="checkbox"/>	Special Inspection	Inspector/Date	<u> </u>
<input type="checkbox"/>	Telephone Inquiry	Inspector/Date	<u> </u>
<input type="checkbox"/>	Preliminary Report	<input type="checkbox"/>	Daily Report
<input checked="" type="checkbox"/>	Information Entered in RI Log	<input type="checkbox"/>	Review at next inspection
<input type="checkbox"/>	Report referred to: _____		

3. REPORT EVALUATION

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

4. SPECIAL INSTRUCTIONS OR COMMENTS

Review during next inspection

Public

Non-Public

Initials/Date

Initials/Date

Completed by:

[Signature]

Date

11.9.2004

Reviewed by:

[Signature]

Date

11/9/04



RECEIVED
REGION 1

DuPont Titanium Technologies
Edge Moor Plant
104 Hay Road
Edge Moor, DE 19809

04 JUN -7 P2 :33

June 3, 2004

John Kinneman
Chief Nuclear Materials Safety Branch 2
Region I
King of Prussia, PA 19406-1415

Reference: Radioactive Material License No. 07-00455-29

Dear Mr. Kinneman:

While recently conducting the 2004 annual fixed gauge audit for the Edge Moor plant, I recognized that there was an oversight on my part to report an incident that occurred on September 12, 2003, that met the reporting requirements detailed in NRC 30.50. The incident involved a stuck shutter on an OHMART sealed source gauge, model # SH-F2 (300 mCi, Cs-137, date manufactured 8/16/1993, SSD# NR-522-D-899-B) that was used to measure liquid level in our #2 Crude Tank in our Purification area. The site attempted to lubricate the shutter in order to get it closed but the shutter would not move. OHMART was contacted and they sent out a representative to try to fix the shutter in place. The OHMART representative was unsuccessful and a decision was made to prepare the source for shipment back to OHMART for disposal. A detailed safety work plan was developed using ALARA principles in cooperation with the OHMART technical group. The work plan involved welding steel plates on the open end of the sealed source gauge housing in order to safely ship the source back to OHMART. All personnel involved in the work were given radiation safety training along with a detailed review of the safety work plan. Furthermore, the same individuals wore Luxel badges to measure radiation exposure. All badges worn by employees working around the sealed source gauge were either non-detect or in the 1 to 2 mRems range for radiation exposure. The gauge was wipe tested by the OHMART representative for gross contamination and found to be less than 0.005 uCi. The work was completed safely and executed per the detailed safety work plan. OHMART accepted the sealed source gauge on October 6, 2003.

Upon investigation, OHMART concluded that the shutter had experienced severe corrosion and process build-up that prevented the shutter to close. As of 2002, OHMART has since made design changes to the SH-F2 models to help prevent this type of problem. The replacement unit incorporates this new design as referenced on page 7 of SSD# OH-0522-D-0102-B. Furthermore, the site has recently implemented a preventative maintenance task to proactively lubricate all applicable sealed source gauge shutters on a periodic basis to minimize potential for this type of incident to occur in the future.

Sincerely,



Robert B. Doremus
SHE Manager, RSO
DuPont Edge Moor Plant
104 Hay Road
Edgemoor, DE 19809
Phone: 302-761-2183

