

04-12-2019


U. S. Nuclear Regulatory Commission
Region III
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

To whom it may concern:

Enclosed for your review is a copy of the detailed report of 5B DTU Shutter Failure reported via phone to the NRC Headquarters Operations Office on April 12, 2019. Report #53995 - 11:24am.

We believe this submission is complete as outlined in 10 CFR 30.50(c)(2). However, if you have any questions please contact me at (906) 475-3521 or Lawrence.Gray@Clevelandcliffs.com.

Sincerely,

A handwritten signature in black ink that reads "Lawrence M Gray". The signature is written in a cursive style with a large, stylized "L" and "G".

Lawrence M Gray
Radiation Safety Officer

Enclosures

5B DTU DENSITY GAUGE — SHUTTER FAILURE

CHAIN OF EVENTS

1. On 04-11-19, a trained technician was in the process of performing the biannual inventory/shutter check, when he reported that Kay Ray Model #7050, Serial #1399, 250mCi, Cs-137 gauge located on 5B DTU (Deslime Thickener U/Flow) in the Deslime basement had a frozen shutter mechanism, rendering the shutter non-operable.
2. On 04-11-19 - A Work Order was entered (1864835) that 5B DTU Density Gauge shutter is frozen. The shutter can't be closed. See attachment "A"
3. On 4-12-19 8:00 am it was reported to the RSO that they found the stuck shutter
4. 04-12-19 - RSO went to look at gauge.
5. 04-12-19 - RSO instructed technicians to take spare gauge out of storage and replace.
6. 04-12-19 - RSO was told by operations that they needed to keep the unit running and they could not shut the line down at this point in time.
7. 04-12-19 - RSO wrote a memo to file indicating a course of action. The gauge won't be replaced until the first time the line goes down for repair. If the line goes down prior to that, we will take the opportunity to get it changed out.

We have had events similar like this in the past, and had never had an exposure to any individuals. In the event of an emergency, the gauge will be removed and place on a piece of lead and brought to storage.

**CLIFFS**

1412.01864835.001

Work Order 01864835

Task 001

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Job Card

District	CLIFFS MICHIGAN	Work Order/Task 01864835/001
Equipment Reference	MTPMCDS05BDTU	Description PUMP, 5B DESLIME THICKENER U/FLOW EQ#43050
Component		Modifier

WO Information**WO Description** Shutter is frozen on source for density

gauge

We have a replacement source up in our radiation cage.

M.S.M. 4/12/19

Work Order Type MAINTENANCE**Originator**

MARTIN, MILES

Required Start**Maintenance Type** RESULT OF PM**Req'd By****User Status** READY TO SCHEDULE**MST Desc****SJ Desc****MST Task No****MST Freq****Task Information****Task** 001 - Shutter is frozen on source for density**Work Group** C2GE WEST ELECTRICAL**Assigned To****Plan Start Date****Crew****Job Instructions****WO Task Completion****Actual Hours****Task Complete**

YES / NO

Date Completed**Completed By****Supervisor****Current Stat(s)****Completion
Comments**