

01-22-2020

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 6A Pebble Mill Cyclone Underflow Shutter Failure reported via phone to the NRC Headquarters Operations Office on January 22, 2020.

Report #54489 - 12:19am.

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

Sincerely,

Lawrence M Gray
Radiation Safety Officer

Enclosures

6A PEBBLE MILL CYCLONE UNDERFLOW DENSITY GAUGE – SHUTTER FAILURE

CHAIN OF EVENTS

1. On 01/21/2020, a trained technician was in the process of performing the biannual inventory/shutter check, when he reported that Kay Ray Model #7050, Serial #1397, 1000mCi, Cs-137 gauge located on 6A Pebble Mill (Cyclone Underflow U/Flow pipe) in the grinding section of the mill had a frozen shutter mechanism, rendering the shutter non-operable.
2. On 01/21/2020 - 12:19pm it was reported to the RSO that the technicians found the stuck shutter
3. 01/21/2020 - RSO went to look at gauge.
4. 01/21/2020 - RSO instructed technicians to take spare gauge out of storage and replace.
5. 01/21/2020 - RSO was told by operations that they needed to keep the pebble mill running and they could not it down at this point in time.
6. On 01/22/2020 - A Work Order was entered (1916340) that Density Gauge shutter is frozen. Exact verbiage off of work order. - **(Density gauge shutter won't move - Handle does, shutter doesn't. Will need to replace source with a 3 mci source from up in our third floor radiation cage. I think the s/n for this source is 97194B. M.S.M. 1/22/2020)**
7. 01/22/2020 - RSO wrote a memo to file indicating a course of action. The gauge will be replaced at the first opportunity the line goes down for repair.

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.