

# 9B DTU DENSITY GAUGE – SHUTTER FAILURE


## CHAIN OF EVENTS

1. On 04-07-20 a trained technician was in the process of performing the by annual inventory/shutter checks, when he reported that Ohmart Model #ED-6, Serial #65902, 100 mCi, Cs-137 gauge located on 9B DTU (Deslime Thickener U/Flow) in the Deslime basement had a frozen shutter mechanism, rendering the shutter non-operable.
2. On 04-07-20 A Work Order was entered (1930085) that 9B DTU Density Gauge Shutter was stuck. See attachment “A”
3. 04/07/20 - RSO went to look at gauge.
4. 04/07/20 - RSO instructed technicians to take spare gauge out of storage and replace.
5. 04/07/20 - 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.
6. 04/07/20 - RSO wrote a memo to file indicating a course of action. The gauge won't be replaced till the first time the line goes down for repair. (Estimate May 1, 2020). 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.

NRC Notified 04/08/20 at 11:25. EN# 54649 – (Donald Norwood)

Work Order	01930085	AUTHORISED
District Code	1412	CLIFFS MICHIGAN OPERATIONS (1412)
Equipment Reference	MTPMCD509BDTU	
Component Code	PUMP, 9B DESLIME THICKENER U/FLOW	
Standard Job	4000 4000 ELECTRICAL / CONTROL SYSTEM	
Work Order Desc	Shutter frozen-Replace Source e*	
User Status	F PLANNING REQUIRED	
Component Modifier Code	HEM, EQ#243046	



Initiation	Tasks	Timing	Cost Allocation	Job Codes	Scheduling	Costs	Actuals Vs Estimates	Completion	Completion Comments	History	Reference Codes	Docum
Work Order Type	MA	MAINTENANCE						Maintenance Type	MC	CORRECTIVE		
Work Group	C2GE	WEST ELECTRICAL MAINTENANCE						Related Work Order				
Originator	0000612846	SKYTJA,JORDON M						Planners Priority	B	PRIORITY B		
Originator Priority	B	PRIORITY B						Originating Document Number				
Originating Document Type								Raised Time	13:47:51			
Work Request								Lock Integration Updates				
Raised Date	04/07/2020											
MSSS Status												
Work Order Extended Text	<div>Skov said shutter is froze and can't be freed up. Need to replace ASAP.. Should be a source upstairs not saved for a work order. Specify source Model &amp; S/N on work order.</div>											