

1 Q. **Re: Refurbishment of Marine Terminal at the Holyrood Thermal Generating**  
2 **Station (Tab 3)**

3 At page 13, reference is made to solidified oil posing a serious environmental  
4 concern if a blockage occurs restricting the flow of the fuel oil and exposing the  
5 lines to damaging pressure levels. Has there been any blockages in the last 10  
6 years? If so, please elaborate.

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9 A. There have been instances in the last ten years where oil has solidified in the lines  
10 causing blockages and leading to delays in the discharge process. The oil solidifies  
11 when oil line heat tracing malfunctions, especially in colder (winter) conditions.  
12 Some typical events include offloading of the following vessels: the MT Chaleur Bay  
13 (March 15, 2008); the MT North Point (March 30, 2009); and, the MT ARIS  
14 (February 24, 2011). While these events have not resulted in overpressure to the  
15 point of causing system equipment damage, the risk has been very real. Operating  
16 personnel have been put in the unenviable position of having to force hot oil from  
17 the ship through the solidified oil in blocked lines, utilizing the ship's pumps. This  
18 practice always increases the risk of overpressure, equipment damage and a serious  
19 environmental spill.