

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

3 At Appendix C, Tab 4 at p. C-7, the times for connecting and disconnecting the
4 loading arms are outlined for an oil delivery in February 2011. The times appear to
5 be less than the 3 hours outlined by Hydro at page 3 of Tab 3. Please provide
6 confirmation that connection and disconnection does require 3 hours each as
7 stated.

8
9
10 A. The connection and disconnection times of the loading arms for an oil delivery are
11 heavily dependent on the weather conditions at the time of delivery and the
12 current restrictions created by the existing loading arm system. Under ideal
13 weather conditions the connection time will take from one half hour to one hour.
14 However, disconnection time can take up to three hours or longer. Before
15 disconnecting the loading arms, the oil remaining in vessel side of the loading arm
16 must be drained back to the vessel tanks. Due to the height of the newer vessels
17 and the limited reach of the loading arms, the slope on which the remaining oil
18 must travel is near flat, which slows the oil drainage process. This time is extended
19 when the weather conditions are colder and the oil begins to solidify in the loading
20 arms. The proposed acquisition of a compressor to aid in the loading arm cleanout
21 system will decrease the disconnect time.