Reference from the Lieutenant-governor in Council On the Muskrat Falls Project (the "Muskrat Falls Review") REQUESTS FOR INFORMATION

Fuel Price Forecasting

1 2	CA/KPR-Nalcor-46	Has Nalcor relied solely on PIRA to provide it with thermal fuel oil price forecasts for the purposes of:
3 4		a) its CPW Analysis of the Isolated Island and Interconnected alternatives;
5		b) its decision to proceed through DG-2.
6		
7 8	CA/KPR-Nalcor-47	Does Nalcor intend to rely solely upon PIRA's thermal fuel oil price forecasts for the purposes of DG-3?
9		
10 11	CA/KPR-Nalcor-48	When will Nalcor request that PIRA provide an updated oil price forecast for the purposes of DG-3 analysis?
12		
13 14 15 16	CA/KPR-Nalcor-49	In its key findings section, Navigant states (Exhibit 101, p. 12 of 79) that the fuel cost forecast used by Nalcor in its analysis of the generation expansion alternatives was reasonable? How was this determination made?
17		
18	CA/KPR-Nalcor-50	On PIRA's website (see http://www.pira.com/clientservices/Resid Fuel
19		Study.htm) PIRA has posted a piece called, "Bottom of the Barrel: An
20		Updated Outlook for Residual Fuel Oil 2012 Edition" which explains that
21		PIRA will be releasing an updated and expanded outlook for residual fuel
22		oil in March, 2012.

1		NEB's report at Chapter Two states that its reference case for West
2		Texas Intermediate (WTI) is assumed to average US \$90/bbl in 2011 and
3		notes, "The real price increases slowly over the projection period,
4		reaching US \$115/bbl by 2035 (in U.S 2010 dollars). In the low case, the
5		WTI crude oil price is assumed to be US \$30/bbl below the reference
6		case price, reaching just over US \$85/bbl in 2035. In the high case, it is
7		assumed to be \$40 higher than the reference case price, growing to US
8		\$155/bbl by 2035.
9		a) What is PIRA's forecast for the price of WTI over this period as
10		compared to the NEB's?
11		b) What is the price relationship between WTI and the types of No. 6
12		fuel oil presented in Exhibit 4?
13		
14	CA/KPR-Nalcor-54	In April, 2011 the US Energy Information Administration (EIA) provided
15		Annual Energy Outlook 2011 with Projections to 2035. For the record,
16		please file a copy of the report and its appendices on the record.
17		(www.eia.gov/forecasts/aeo/)
18		
19	CA/KPR-Nalcor-55	Please compare PIRA's price forecasts, including low and high cases,
20		filed in this review with other publicly available comparable price
21		forecasts.
22		
23	CA/KPR-Nalcor-56	In the Nalcor Submission, page 126 of 158 Revision 1, Nalcor provides
24		Table 1: Summary of CPW Sensitivity Analysis with Respect to
25		Reference Case and Preference (Present Value 2010 \$, millions). In
26		Table 1, it refers to a "PIRA High World Oil Forecast" and a "PIRA Low
27		world Oil Forecast."
28		(a) Please provide a copy of each of these forecasts and provide the date
29		when each was made.

1 2		(b) Please also show the calculations as to how each of the forecasts yields the amount shown in the 'Preference for Interconnected Island'
3		Column.
4		
5	CA/KPR-Nalcor-57	Nalcor has filed PIRA's Thermal Fuel Price forecast as of May, 2011 in
6 7		reply to MHI-126. Please also provide PIRA's "low" and "high" forecasts as of that date.
8		
9	CA/KPR-Nalcor-58	Please state what the Preference for Interconnected Island would be
10		using PIRA's May 2011 "low" and "high" forecasts respectively.
11		
12	CA/KPR-Nalcor-59	What qualifications on opinion, if any, has PIRA provided to Nalcor or
13 14		Hydro in connection with the Thermal Fuel Price forecasts filed in this review.
15		
16	CA/KPR-Nalcor-60	Why does PIRA provide a "low" and "high" forecast to clients?
17		
18	CA/KPR-Nalcor-61	Navigant's report (Exhibit 101, p. 65 of 79) states:
19		"PIRA High and Low forecasts both have a similar probability of occurring.
20		While it is possible that fuel prices could be sufficiently low to render a
21 22		CPW preference of only \$120 million for the Interconnected Island alternative under the PIRA load forecast, it is equally probable that fuel
23		prices could be sufficiently high for the Interconnected Island alternative
24		to have a \$5,474 million CPW preference over the Isolated Island
25		alternative under the PIRA High forecast."
26		Does PIRA agree that both its High and Low forecasts both have a similar
27		probability of occurring?

32 33 Email: tjohnson@odeaearle.ca