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

1		
2	CA/KPL-Nalcor-157	Consumer Question: NALCOR has offered that although there has been
3		reduction in the total population of Newfoundland from 1990 - 2005 there
4		has been an increase in domestic customers. This has been attributed
5		(Page 24 - main submission) to the number of people above 25 years
6		old, who are entering the housing market. From the provincial
7		government department of statistics there will be a leveling of this age
8		percentile in the 2016-2020 period. However, this does not seem to be
9		reflected in the predicted customer growth during the remainder of the
10		2010 - PLF. NALCOR is requested to provide commentary on this.
11		
12	CA/KPL-Nalcor-158	Consumer Question: Based on the current demand projections to 2067,
13		and the general assumption that there is limited industrial growth, what is
14		the final estimated numbers of domestic customers in 2067. What would
15		be the average persons per household based on domestic customers,
16		and total population.
17		
18	CA/KPL-Nalcor-159	Consumer Question: Considering the unique challenges faced in rural
19		Newfoundland does NALCOR track home abandonment in the demand
20		projections, or is it just purely housing starts which are included within the
21		econometric modeling.
22		
23	CA/KPL-Nalcor-160	Consumer Question: The Newfoundland Government Department of
24		Statistics provide an estimate of households on the NE Avalon, following
25		a HIGH, MEDIUM and LOW projection.
26		[Ref:_http://www.economics.gov.nl.ca/pdf2008/Population
27		%20and%20Household%20Projections_2008%20(web).pdf]This has
28		estimated a HIGH estimate of 1000 new homes per year. Considering
29		the economic shift from RURAL to the NE Avalon the household

1		projections used by NALCOR appear to be on the upper bound.
2		NALCOR are asked to describe any differences from that published 3
3		years ago by the Department of Finance and that used by NALCOR in
4		their projections.
5		
6	CA/KPL-Nalcor-161	Consumer Question: Within Exhibit 101 (Navigant Report) there is a
7		reference to a CPW of a "low demand profile". NALCOR are requested
8		to provide how this will impact the cost to the consumer on a kw-hr basis.
9		
10	CA/KPL-Nalcor-162	Consumer Question: The EMERA term sheet references the "NS Block
11		of Power" which equates to 980 GWhr which is provided in exchange for
12		construction of the Maritime Link, the enabler of additional power sales.
13		However when considering the Muskrat Falls power purchase profile,
14		assumed in the interconnected island case, there is a potential deficiency
15		in total energy observed around 2035. NALCOR are requested to
16		confirm if the EMERA commitment will provide an energy shortfall in the
17		interconnected option?
18		
19	CA/KPL-Nalcor-163	Consumer Question: With respect to the potential power exports in the
20		early stages of the project can it be confirmed that the revenue will be
21		directed to lower rate payer rates. Please provide a Yes or No answer.
22		
23		(a) If Yes, what is the expected power sales, and how much will the rates
24		decrease because of the Emera partnership.
25		
26		(b) If No, please explain to the NL rate payer as to why not.
27		
28	CA/KPL-Nalcor-164	Consumer Question: Figure 6 of the main submission of November 10,
29		2011 provides the hourly demand profile used in the CPW analysis. Can
30		this be confirmed that this is a 2010 hourly demand profile?
31		
32	CA/KPL-Nalcor-165	Consumer Question: Can NALCOR please confirm if this hourly/monthly
33		profile (exhibit 2) is used throughout the analysis. How is it increased on
34		a go forward basis? Is it just increased by a ratio similar to the

1		estimated growth in annual total energy?
2	CA/KPL-Nalcor-166	Consumer Question: Can NALCOR provide commentary regarding how
4	OA/INI L-INAICOI-100	the transition to a customer base increasingly dominated by home heating
5		requirements may affect this hourly demand profile.
6		requirements may allost the nearly demand prome.
7	CA/KPL-Nalcor-167	Consumer Question: NALCOR has previously advised through the RFI
8		process that there has been no material negotiations with Hydro Quebec
9		concerning the purchase of power from the Upper Churchill facility. Has
10		NALCOR reviewed the Guaranteed Winter Availability Contract (signed in
11		1998) as a means to provide the provinces peak energy requirements
12		during the winter months.
13		
14	CA/KPL-Nalcor-168	Consumer Question: NALCOR is requested to provide a CPW analysis
15		for the interconnected island option with no Muskrat Falls, with Churchill
16		Falls power available at a rate consistent with a Class L customer within
17		Hydro-Quebec. This is roughly 2.97 cents per kwhr.
18		
19	CA/KPL-Nalcor-169	Consumer Question: Considering the 80 MW recall power, the 26 MW
20		Portland Creek Facility and the additional system reliability provided by
21		the LIL when is the anticipated period of peak and total energy deficiency
22		in a delayed MF scenario?
23		
24	CA/KPL-Nalcor-170	Consumer Question: NALCOR appear to be utilizing an earned value
25		assessment of combining schedule and costs. Based on the level of
26		work currently completed what is the earned value assessment (Actual
27		Cost of Work Performed, Budgeted Costs of Work Performed, Efficiency
28		etc)
29		
30	CA/KPL-Nalcor-171	Consumer Question: How does the PME % compare to other
31		hydro-electric projects of similar size.
32		
33	CA/KPL-Nalcor-172	Consumer Question: Considering the EPCM contract has been awarded
34		how to the PME rates compared to those included within the original

1 2		estimates? What is the impact on the estimates used in the CPW analysis,
3	CA/KPL-Nalcor-173	Consumer Question: The EBCM progurement website has indicated that
4 5	CA/NPL-Naicoi-173	Consumer Question: The EPCM procurement website has indicated that there are a number of major packages which proposals have been
6		received, but award is not completed (presumably pending project
7		sanction). Has there been any noticeable cost growth in the total project estimate since the CPW analysis completed in the November 10th submission has been completed.
8		
9		
10		'
11	CA/KPL-Nalcor-174	Consumer Question: NALCOR are requested to provide examples of
12		other subsea cable projects where HDD methods have been used on
13		both ends.
14		
15	CA/KPL-Nalcor-175	Consumer Question: Has a full analysis of EMERA power requirements
16		been completed in Strategist. What additional capacity requirements are
17		required for the interconnected scenario in the winter months? Has this
18		been completed on an hourly basis over the full period of 2017 - 2067.
19		
20	CA/KPL-Nalcor-176	Consumer Question: With the EMERA cable, and considering the current
21		planned generation, what is the LOLH for the following years 2017, 2024,
22		2030, 2035.
23		
24	CA/KPL-Nalcor-177	Consumer Question: NALCOR requested to provide a monthly profile for
25		MF generation, Island Consumption and potential export sales in the
26		interconnected island option. This shall be for 2035 when there is a
27		deficiency anticipated per the 980 GWhr commitment to emera.
28		
29	CA/KPL-Nalcor-178	Consumer Question: What would be a realistic price for surplus energy
30		considering that it is to be sold primarily in off peak times. The GWAC
31		contract has a very pronounced difference in peak and non-peak rates in
32		the winter (Peak = 22.8 \$/MW-hr versus Non-Peak = 6.7\$ \$/MW-hr). Is
33		this considered representative?
34		

1	CA/KPL-Nalcor-179	Consumer Question: Based on market rates in the final selling point,
2		what would be the kw-hr value to the NL rate payer considering the
3		transmission, tariffs and other charges which must be taken off the top.
4		
5	CA/KPL-Nalcor-180	Consumer Question: Does the predicted potential energy sales (largely
6		in summer) have a higher CPW than the additional fuel and infrastructure
7		costs required to meet the winter period demands required if the EMERA
8		deal proceeds. Is there a clear commercial advantage to partnering with
9		EMERA based on the current demand projections, or is it purely a form of
10		risk mitigation if the demand profile does not materialize.
11	CA/KDI Nalasy 101	Occasional Occasional The total analysis designed from 2000, 2007 have
12	CA/KPL-Nalcor-181	Consumer Question: The total energy demands from 2029 – 2067 have
13		been extrapolated from the 2010-PLF. In this period the Peak Demand
14		(MW) appears to be a constant ratio to the total energy (GWHr). That is,
15		the Peak Demand in MW is the total energy divided by 5.1. However a
16		review of the historical statistics (1978-2010) show that this ratio is not
17		consistent at 5.1 but varying with a ever decreasing trend. As the
18		economics of both scenarios are dependent upon any additional
19		generation capacity that may be required to service the domestic needs in
20		winter, it is considered very important that this "ratio" be accurate.
21		NALCOR is requested to clarify how the peak capacity (MW) was
22		extrapolated in the period from 2029-2067.
23	.	
24	CA/KPL-Nalcor-182	Consumer Question: Although the information is provided within a
25		number of exhibits and references can NALCOR provide a clear listing of
26		the following parameters in the CPW analysis
27		
28		Return on Equity
29		Interest on Debt
30		IRR on regulated
31		IRR on unregulated
32		Discount Rate
33		
34		This is requested to be clearly defined for both the interconnected and

1		isolated options.
2		
3	CA/KPL-Nalcor-183	Consumer Question: The discount rate used in the CPW analysis is 8%
4		which is the WACC for the interconnected island. This has been used
5		for the isolated option as well. Is this valid, or should a separate discount
6		rate be used for the isolated alternative, which reflects the thermal
7		generation.
8		
9	CA/KPL-Nalcor-184	Consumer Question: What was the discount rate used in historical
10		economic analysis completed by Newfoundland Hydro for thermal plants.
11		
12	CA/KPL-Nalcor-185	Consumer Question: Considering the considerable risk associated with
13		the Interconnected option (lower than expected domestic sales) should a
14		hurdle approach, or risk premium approach, be adopted by NALCOR.
15		They have actually taken an opposite view in accepting a lower rate of
16		return for the interconnected island option. It should be noted that such
17		a penalty should not be adopted to isolated option, as in the event of
18		HIGH oil prices a future decision can be made to construct MF.
19		
20		
21 22 23 24 25 26 27 28	Dated at St. John's 2012.	in the Province of Newfoundland and Labrador, this 2 nd day of February, Thomas Johnson Consumer Advocate 323 Duckworth Street St. John's, NL A1C 5X4
29 30 31		Telephone: (709)726-3524 Facsimile: (709)726-9600 Email: <u>tjohnson@odeaearle.ca</u>
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