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

1	CA/KPL-Nalcor-246	Consumer Question: There is much reference in the PUB documentation
2		to the 824 MW Muskrat Falls Project. It must be clear that the PPA
3		referenced is for the Project cost. As such, the "Project" is the Muskrat
4		Falls hydro-electric plant development; the 315 kV ac transmission
5		interconnection between Muskrat Falls and Churchill Falls; and the 1100
6		km Labrador-Island Link (LIL) of 345 kV hvdc transmission from Muskrat
7		Falls to Soldiers Pond in Newfoundland. Is the PPA referenced for the
8		Project, as defined above?
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10	CA/KPL-Nalcor-247	Consumer Question: The presentations under review mandate are all
11		referenced to DG2. However, there are many different cost figures
12		currently spoken in the public. For DG2, is it \$5.0 B in capital cost for the
13		project that is discounted and used for CPW or, is it something else, e.g.
14		\$6.2 B?
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16	CA/KPL-Nalcor-248	Consumer Question: Further to CA/KPL-Nalcor-246, the Nalcor
16 17	CA/KPL-Nalcor-248	Consumer Question: Further to CA/KPL-Nalcor-246, the Nalcor presentations make the transparency of the costs difficult for the public
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17	CA/KPL-Nalcor-248	presentations make the transparency of the costs difficult for the public
17 18	CA/KPL-Nalcor-248	presentations make the transparency of the costs difficult for the public to digest. The PPA (for the project) is referenced as \$75.82/MWh in
17 18 19	CA/KPL-Nalcor-248	presentations make the transparency of the costs difficult for the public to digest. The PPA (for the project) is referenced as \$75.82/MWh in \$2010, and \$87.96/MWh in \$2017 escalated, and rising to about
17 18 19 20	CA/KPL-Nalcor-248	presentations make the transparency of the costs difficult for the public to digest. The PPA (for the project) is referenced as \$75.82/MWh in \$2010, and \$87.96/MWh in \$2017 escalated, and rising to about \$240/MWh in 2067 (after 50 years of amortization with 2% escalation/yr.
17 18 19 20 21	CA/KPL-Nalcor-248	presentations make the transparency of the costs difficult for the public to digest. The PPA (for the project) is referenced as \$75.82/MWh in \$2010, and \$87.96/MWh in \$2017 escalated, and rising to about \$240/MWh in 2067 (after 50 years of amortization with 2% escalation/yr. compounded). Very simple arithmetic, using 3000 GWh as the average
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means to the ratepayer and taxpayer of NL?

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CA/KPL-Nalcor-249 Consumer Question: In the CPW analysis, retirement of hydro plants is in perpetuity and for LIL is for 50 years. There's plenty of databasing to go around and GAAP and AACE standards, etc. for hydro plants. However, although I cannot provide expert opinion here, in more recent times. I believe that to be changing, e.g. increased transformer failures with finite computer design. An examination of non-recurring capital expenses amongst Canadian utilities for in-plant assets may indeed reveal an increase in non-recurring capital expense. Perhaps, an examination of projected non-recurring capital expense forecast for CFLCo and other hydro assets, e.g. BC Hydro, may reveal that. Will PUB make an undertaking of MHI and/or Nalcor to provide an analysis or opinion on life of hydro assets assumption, going forward, in its CPW?

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CA/KPL-Nalcor-250 Consumer Question: Further to CA/KPL-Nalcor-249, the life of LIL is assumed for 50 years. There is no distinction between the ac component, the hvdc converter component, the hvdc line component, the SOBI crossing, and the island integration components (e.g. synchronous condensers). I believe some of these components have less than 50 years life and should be databased, in comparison to existing in place projects. In particular, synchronous condensers are a vital component to island delivery and should be assessed further and others such as SOBI. Will PUB make an undertaking of MHI and/or Nalcor to provide an analysis or opinion on life of LIL components in further detail, relevant to

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the CPW?

CA/KPL-Nalcor-251 Consumer Question: Let's talk about PPA versus COS. PPA does indeed provide the advantage of "lower long run cost" favoring the project. But, does the CPW compare, perhaps unfairly, an apple with an orange? It is probable that a private entity could package development of viable on-island hydro potential first, followed by evolving thermal options and bring it up to the 2036 base when all Muskrat Falls power is firmed up (thereafter the scenario is the same to 2067). However, the twist is the

package would also have the advantage of a 50 year PPA amortization 1 2 financing arrangement for each component. Can this be a RFI within the 3 PUB mandate at this stage of proceedings? 4 5 CA/KPL-Nalcor-252 Consumer Question: I would like to be clear on the definition of busbar. Usually, in utility terms, the definition becomes important relating to 6 delivery point for power. 7 Has Nalcor ever defined the point of delivery for the PPA? (a) 8 Is the defined delivery point for purposes of PPA the Muskrat Falls 9 (b) busbar or is it out of the converter to the 230 kV side at Soldiers 10 Pond? 11 (c) Does a draft PPA exist? 12 13 CA/KPL-Nalcor-253 14 Consumer Question: Further to CA/KPL-Nalcor-252, my thought is it has to be delivered to Soldiers Pond thereby encompassing all of the "project" 15 costs. If that is so, we have to examine just what is being delivered. First, 16 the presentations by Nalcor speak to the Muskrat Falls 824 MW project. 17 18 believe that may be erroneous. The project definition is actually 4x 225 MW=900 MW delivered to the Muskrat Falls generator ac busbar. If all 19 MWs were directed to Soldiers Pond, given the long distance, HVDC 20 notwithstanding, that delivers 824 MW to the Soldiers Pond 230 KV ac 21 side for delivery into the NL insular system. Let's be clear. There are 76 22 23 MW of transmission system losses (primarily on the long hvdc link) that are accounted for. In perspective, that power is equivalent to roughly an 24 equivalent existing Hind's Lake or Upper Salmon development. I believe 25 these to be facts. So, what's the question? If the 824 MW is delivered to 26 Soldiers Pond by definition, will Nalcor revise its presentations 27 accordingly? 28 29 CA/KPL-Nalcor-254 Consumer Question: Further to CA/KPL-Nalcor-253, given the attested 30 long LIL distance and resulting real power and energy losses to transmit, 31 has MIL/Nalcor/PUB fully examined hvdc transmission optimization of 32 loss versus increased capital offset? 33 34

1	CA/KPL-Nalcor-255	Consumer Question: In its July, 2011 presentation to PUB, page 37 0f
2	,	50, Nalcor indicates, in its pictorial, that Emera is a 29% owner of the LIL.
3		What impact does the term note thereby have on the bearing of the
4		sanction of the project?
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6	CA/KPL-Nalcor-256	Consumer Question: In its July, 2011 presentation to PUB, page 42 of 50
7		re Key Dates, Decision Gate 3 is shown as December, 2011. Yet, recent
8		testimony has verified that a decision for sanction is not expected until
9		June, 2012. Given construction season and other factors for early works
10		et al and the time of year for sanction decision, can not Nalcor confirm
11		that the project is 1 year behind schedule?
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13	CA/KPL-Nalcor-257	Consumer Question: Further to CA/KPL-Nalcor-256, what in total are the
14		consequences of this delay and how will the intervening time be spent on
15		the project if it is sanctioned?
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17	CA/KPL-Nalcor-258	Consumer Question: What is the value of the Muskrat Falls to Churchill
18		Falls intertie to the island ratepayer? Is the intertie essential to LIL?
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20	CA/KPL-Nalcor-259	Consumer Question: Should power sales west occur after the project is
21		in service, will the ratepayers of Newfoundland be protected first with right
22		of first refusal?
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24	CA/KPL-Nalcor-260	Consumer Question: Further to CA/KPL-Nalcor-259, should power sales
25		west occur before all of Muskrat Falls becomes firmed up for
26		Newfoundland ratepayer needs, will the power sales west result in direct
27		net back offset to Newfoundland ratepayers?
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29	CA/KPL-Nalcor-261	Consumer Question: Further to CA/KPL-Nalcor-259 and
30		CA/KPL-Nalcor-260, will power sales west initiate immediate offset of LIA
31		costs to Newfoundland ratepayers, given that significant LIA costs are
32		retribution for Churchill Falls reservoir costs (and hence sales west)?
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34	CA/KPL-Nalcor-262	Consumer Question: If the Emera term note is initiated, how will that

CA/KPL-Nalcor-263 Consumer Question: Will Emera bear some of the cost of the Bay d' Espoir to Western Avalon transmission upgrades since some of the Maritime link technical capability is likely dependent upon the referenced upgrades?  CA/KPL-Nalcor-264 Consumer Question: Is the Maritime link technically and economically feasible?  CA/KPL-Nalcor-265 Consumer Question: Will the Newfoundland ratepayer be provided a rate reduction should sales west occur in Labrador? How will any sales other than to Island customers affect the PPA (assigned exclusively to Island customers initially)?  CA/KPL-Nalcor-266 Consumer Question: With respect to LIL reliability, it would appear most databases on existing performance of similar assets are done on a per km basis. Is that realistic for LIL, given the long distance involved and the specific climatic conditions?  CA/KPL-Nalcor-267 Consumer Question: According to recent testimony, considerable accuracy of estimate will be in hand for DG3 and gatekeeper review. Will the NL public have an opportunity for input after this input is in hand?  Dated at St. John's in the Province of Newfoundland and Labrador, this 20 <sup>th</sup> day of February, 2012.  Dated at St. John's in the Province of Newfoundland and Labrador, this 20 <sup>th</sup> day of February, 2012.  Thomas Johnson Consumer Advocate 323 Duckworth Street St. John's, NL. Al-1C 5X4 Telephone: (709)726-3524 Facsimile: (709)726-3524 Facsimile: (709)726-9600 Email: tjohnson@odeaearle.ca	1		revenue provide relief to the Newfoundland ratepayer?
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30 31 32 33 34 35 36  Thomas Johnson Consumer Advocate 323 Duckworth Street St. John's, NL A1C 5X4 Telephone: (709)726-3524 Facsimile: (709)726-9600			
32 Consumer Advocate 33 323 Duckworth Street 34 St. John's, NL A1C 5X4 Telephone: (709)726-3524 Facsimile: (709)726-9600			
33 323 Duckworth Street 34 St. John's, NL A1C 5X4 35 Telephone: (709)726-3524 36 Facsimile: (709)726-9600			, ,
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