

1 Q. With respect to Exhibit 10 (a), please provide the load balance estimate annually
2 from 2014 to 2067 in a format similar to that provided for years 2010 to 2014.

3

4

5 A. Please see attached *MHI-Nalcor-13a* and *MHI-Nalcor-13b*— Energy Balance and
6 LOLH Results - Island Isolated and Labrador HVdc Link for an annual summary of
7 forecast load versus firm energy capability from 2010 to 2067, as well as the LOLH
8 for each year.

2010 PLF FORECAST
ENERGY BALANCE AND LOLH RESULTS
Isolated Island

MHI-Nalcor-13 ISO
Muskrat Falls Review
Page 1 of 1

DATE: April-10

CASE: ISO - INI 100Q

SCENARIO: Expansion

YEAR	FORECAST		FIRM CAPABILITY	ENERGY BALANCE	ADDITIONS and RETIREMENTS				LOLH 2.8
	MW	GWh			Addition	Retirement	Addition GWh	Retirement GWh	
2010	1,519	7,585	8,953	1,368					0.15
2011	1,538	7,709	8,953	1,244					0.22
2012	1,571	7,849	8,953	1,104					0.41
2013	1,601	8,211	8,953	742					0.84
2014	1,666	8,485	9,030	545	25 MW Wind (77.2 GWh)		77.2		2.41
2015	1,683	8,606	9,203	597	Island Pond (172.3 GWh)		172.3		2.54
2016	1,695	8,623	9,203	580					1.88
2017	1,704	8,663	9,203	540					2.19
2018	1,714	8,732	9,302	569	Portland Creek (99 GWh)		99.0		2.44
2019	1,729	8,803	9,302	499					2.23
2020	1,744	8,869	9,410	540	Round Pond (108 GWh)		108.0		2.63
2021	1,757	8,965	9,410	445					2.54
2022	1,776	9,062	10,685	1,623	170 MW CCCT (1340 GWh)	Hardwoods CT ¹ & CBP Co-Gen	1,340.0	(65.0)	2.76
2023	1,794	9,169	10,685	1,516					1.02
2024	1,813	9,232	11,079	1,847	50 MW CT(394.2 GWh)	Stephenville CT ¹	394.2		1.35
2025	1,827	9,290	11,079	1,789					1.89
2026	1,840	9,372	11,079	1,706					2.34
2027	1,856	9,461	11,473	2,012	50 MW CT(394.2 GWh)		394.2		2.67
2028	1,872	9,543	11,473	1,930	2 * 27 MW Windfarms	2 * 27 MW Windfarms	167.0	(167.0)	1.69
2029	1,888	9,623	11,473	1,850					1.52
2030	1,903	9,701	11,867	2,166	50 MW CT(394.2 GWh)		394.2		1.72
2031	1,918	9,779	11,867	2,088					1.69
2032	1,934	9,857	11,867	2,010					2.13
2033	1,949	9,935	12,468	2,533	2 * 170 MW CCCT (1340 GWh)	Holyrood 1 & 2	2,680.0	(2,078.8)	2.13
2034	1,964	10,014	12,468	2,455	25 MW Wind	25 MW Wind	77.2	(77.2)	1.25
2035	1,978	10,084	12,468	2,384					1.33
2036	1,992	10,154	12,891	2,737	170 MW CCCT (1340 GWh)	Holyrood 3	1,340.0	(917.1)	1.53
2037	2,006	10,225	12,891	2,666					1.06
2038	2,020	10,295	12,891	2,596					1.34
2039	2,033	10,365	12,891	2,526					1.67
2040	2,046	10,428	12,891	2,463					2.01
2041	2,058	10,491	12,891	2,401					2.46
2042	2,070	10,553	13,285	2,732	50 MW CT(394.2 GWh)		394.2		2.65
2043	2,082	10,616	13,285	2,670					1.76
2044	2,095	10,678	13,285	2,607					2.13
2045	2,107	10,741	13,680	2,939			394.2		2.59
2046	2,119	10,803	13,680	2,876	50 MW CT(394.2 GWh)				2.79
2047	2,132	10,866	13,680	2,814					1.86
2048	2,144	10,928	13,680	2,751	2 * 27 MW Windfarms	2 * 27 MW Windfarms	167.0	(167.0)	2.25
2049	2,156	10,991	13,680	2,689	50 MW CT(394.2 GWh)	50 MW CT	394.2	(394.2)	2.73
2050	2,167	11,046	15,020	3,974	170 MW CCCT (1340 GWh)		1,340.0		2.57
2051	2,178	11,100	15,020	3,919					0.35
2052	2,188	11,155	14,625	3,470	170 MW CCCT (1340 GWh)	50 MW CT & 170 MW CCCT	1,340.0	(1,734.2)	0.52
2053	2,199	11,210	14,625	3,416					1.06
2054	2,210	11,264	14,625	3,361	25 MW Wind	25 MW Wind	77.2	(77.2)	1.24
2055	2,220	11,319	14,231	2,912		50 MW CT		(394.2)	1.76
2056	2,231	11,374	15,571	4,197	170 MW CCCT (1340 GWh)		1,340.0		2.65
2057	2,242	11,429	15,571	4,143					0.43
2058	2,253	11,483	15,571	4,088					0.50
2059	2,263	11,538	15,571	4,033					0.59
2060	2,274	11,593	15,571	3,978					0.70
2061	2,285	11,648	15,571	3,924					0.82
2062	2,296	11,702	15,571	3,869					0.96
2063	2,306	11,757	15,020	3,263	2 * 50 MW CT(394.2 GWh) 170 MW CCCT	2 * 170 MW CCCT	2,128.4	(2,680.0)	1.45
2064	2,317	11,812	15,414	3,602	50 MW CT(394.2 GWh)		394.2		2.69
2065	2,328	11,866	15,414	3,547					1.83
2066	2,339	11,921	15,414	3,493	170 MW CCCT (1340 GWh)	170 MW CCCT	1,340.0	(1,340.0)	2.13
2067	2,349	11,976	16,360	4,384	170 MW CCCT (1340 GWh)	50 MW CT	1,340.0	(394.2)	2.05

Note: 1. Currently no firm energy associated with Stephenville and Hardwoods CTs.

2010 PLF FORECAST
ENERGY BALANCE AND LOLH RESULTS
Labrador HVdc Link

MHI-Nalcor-13 DCL
Muskrat Falls Review
Page 1 of 1

DATE: October-10

CASE: DCL - INI 101D-M

SCENARIO: Expansion

YEAR	FORECAST		FIRM CAPABILITY	ENERGY BALANCE	ADDITIONS and RETIREMENTS				LOLH 2.8
	MW	GWh			Addition	Retirement	Addition GWh	Retirement GWh	
2010	1,519	7,585	8,953	1,368					0.15
2011	1,538	7,709	8,953	1,244					0.22
2012	1,571	7,849	8,953	1,104					0.41
2013	1,601	8,211	8,953	742					0.84
2014	1,666	8,485	9,347	862	50 MW CT(394.2 GWh)		394.2		2.23
2015	1,683	8,606	9,347	742					1.55
2016	1,695	8,623	9,347	724					1.83
2017	1,704	8,663	15,290	6,627	DCL (5943 GWh)		5,943.0		0.11
2018	1,714	8,732	15,290	6,558					0.11
2019	1,729	8,803	15,290	6,487					0.12
2020	1,744	8,869	15,290	6,421					0.12
2021	1,757	8,965	12,294	3,330		Holyrood 1 & 2 & 3		(2,995.9)	0.13
2022	1,776	9,062	12,229	3,167		Hardwoods CT ¹ & CBP Co-Gen		(65.0)	0.15
2023	1,794	9,169	12,229	3,061					0.23
2024	1,813	9,232	12,229	2,997		Stephenville CT ¹			0.26
2025	1,827	9,290	12,229	2,939					0.48
2026	1,840	9,372	12,229	2,857					0.53
2027	1,856	9,461	12,229	2,768					0.61
2028	1,872	9,543	12,062	2,520		2 * 27 MW Windfarms		(167.0)	0.72
2029	1,888	9,623	12,062	2,440					1.01
2030	1,903	9,701	12,062	2,361					1.14
2031	1,918	9,779	12,062	2,283					1.61
2032	1,934	9,857	12,062	2,205					1.74
2033	1,949	9,935	12,062	2,127					2.06
2034	1,964	10,014	12,062	2,049					2.33
2035	1,978	10,084	12,062	1,978					2.60
2036	1,992	10,154	12,161	2,007	Portland Creek (99 GWh)		99.0		2.66
2037	2,006	10,225	13,501	3,277	170 MW CCCT (1340 GWh)		1,340.0		2.20
2038	2,020	10,295	13,501	3,206					0.76
2039	2,033	10,365	13,107	2,742		50 MW CT		(394.2)	0.95
2040	2,046	10,428	13,107	2,679					1.40
2041	2,058	10,491	13,107	2,617					1.60
2042	2,070	10,553	13,107	2,554					1.77
2043	2,082	10,616	13,107	2,491					1.94
2044	2,095	10,678	13,107	2,429					2.06
2045	2,107	10,741	13,107	2,366					2.37
2046	2,119	10,803	13,501	2,698	50 MW CT(394.2 GWh)		394.2		2.44
2047	2,132	10,866	13,501	2,636					1.89
2048	2,144	10,928	13,501	2,573					2.02
2049	2,156	10,991	13,501	2,510					2.33
2050	2,167	11,046	13,896	2,850	50 MW CT(394.2 GWh)		394.2		2.37
2051	2,178	11,100	13,896	2,795					1.78
2052	2,188	11,155	13,896	2,740					1.90
2053	2,199	11,210	13,896	2,686					2.17
2054	2,210	11,264	14,290	3,025	50 MW CT(394.2 GWh)		394.2		2.20
2055	2,220	11,319	14,290	2,970					1.63
2056	2,231	11,374	14,290	2,916					1.75
2057	2,242	11,429	14,290	2,861					2.01
2058	2,253	11,483	14,684	3,201	50 MW CT(394.2 GWh)		394.2		2.05
2059	2,263	11,538	14,684	3,146					1.49
2060	2,274	11,593	14,684	3,091					1.63
2061	2,285	11,648	14,684	3,036					1.86
2062	2,296	11,702	14,684	2,982					2.08
2063	2,306	11,757	15,078	3,321	50 MW CT(394.2 GWh)		394.2		2.13
2064	2,317	11,812	15,078	3,266					1.52
2065	2,328	11,866	15,078	3,212					1.73
2066	2,339	11,921	15,472	3,551	50 MW CT(394.2 GWh)		394.2		1.78
2067	2,349	11,976	14,132	2,156	170 MW CCCT			(1,340.0)	2.66

Note: 1. Currently no firm energy associated with Stephenville and Hardwoods CTs.