1	Q.	(Re: Response to CA-NLH-53) In GRA, Volume II, Exhibit 3 it is stated certain facilities
2		for construction supply to Muskrat Falls "will be fully contributed and is assigned as
3		common due to the system capacity benefits". Please identify any assets that have
4		been assigned as common and quantify the system capacity benefits; i.e., capacitor
5		banks and other terminal station equipment.
6		
7		
8	A.	The facilities added at Muskrat Falls for construction power supply to Muskrat Falls
9		assigned as common assets include:
10		• Four 138 kV disconnect switches (B1L1301-1, B1L1302-1, B1L1302-2 and
11		B1T1-1);
12		 Two 138 kV circuit breakers (B1L1302 and B1T1);
13		 Two 138 kV ground switches (L1301G and L1302G);
14		 One 138/25 kV power transformer with an on-load tap changer;
15		 Two 25 kV disconnect switches (B2T1-1 and B2B3-1);
16		 Three 25 kVA single phase distribution transformers for station service;
17		 One 25 kV circuit breaker (B2B3);
18		• Six 25 kV vacuum circuit breakers for capacitor bank switching (B3C1, B3C2,
19		B3C3, B3C4, B3C5 and B3C6);
20		 Six 25 kV, 3.6 MVAR shunt capacitor banks; and
21		 Associated bus work, insulators, protection and control panels.
22		
23		As with Hydro's other general service customers, infrastructure before the point at
24		which the customer is metered is common.
25		
26		The total transfer capacity of the 138 kV transmission line east of Churchill Falls was
27		63 MW prior to the addition of the 138/25 kV station at Muskrat Falls. The addition

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of the construction power facilities at Muskrat Falls increases the total transfer
capacity of the transmission line such that both the construction power load and
the Happy Valley-Goose Bay load can be supplied throughout the construction
phase. The total Labrador East transfer capability of the 138 kV transmission
system during the Muskrat Falls construction phase equals 76 MW. Following
completion of the Muskrat Falls development and removal of the construction
power load on the 138 kV transmission line, continued use of the facilities at
Muskrat Falls will enable supply of up to 73.5 MW to Happy Valley-Goose Bay.