1	Q.	Asset Management
2		Provide a list of the generators operated and maintained by Hydro's Transmission
3		and Rural Operations (TRO) group. Describe generators locations, sizes, fuel, and
4		general maintenance practices.
5		
6		
7	A.	The list of generators operated and maintained by Hydro's Transmission and Rural
8		Operations (TRO) group is provided in PUB-NLH-370 Attachment 1.
9		
10		The fuel used in all these generators is diesel fuel.
11		
12		The general maintenance practices for the prime power diesel generators include:
13		 250 operating hour inspection and service, including oil sampling and
14		analysis;
15		 500 operating hour inspection and service, including oil change and coolant
16		sampling and analysis;
17		 Electrical preventative maintenance annually;
18		 Mechanical preventative maintenance annually; and
19		 Engine overhaul every 20,000 operating hours.
20		
21		The general maintenance practices for the gas turbine facilities include:
22		Electrical and mechanical preventative maintenance inspection twice
23		annually;
24		 Over speed protection preventative maintenance inspection annually;
25		 Lubricating oil sampling and analysis annually;
26		Glycol sampling and analysis annually;
27		 Hot section borescope inspection every two years;

Island Interconnected System Supply Issues and Power Outages

	Page 2 of
1	 Five year preventative maintenance inspection including replacement of
2	lube oil filters, fuel filters and air filters; and
3	Six year protection and control preventative maintenance inspection
4	including relays, switchgear, and station service transformer.
5	
6	The general maintenance practices for the standby diesel generators include:
7	 Annual coolant sampling and analysis;
8	 Oil sampling and analysis at 250 operating hours;
9	 Oil change at 1000 operating hours;
10	 Electrical preventive maintenance every two years;
11	 Mechanical preventative maintenance every two years; and
12	 Engine overhaul every 20,000 operating hours.

Gas Turbines Operated and Maintained by TRO

Location	Unit Number	Rating
Hardwoods	N/A	50 MW
Stephenville	N/A	50 MW
Happy Valley	N/A	25 MW

Prime Power Diesel Generating Units Operated and Maintained by TRO¹

Location	Unit Number	Rating, kW
	588	150
Francois	587	210
	570	275
	2026	250
Grey River	2062	136
	2067	136
	2023	450
Little Bay Islands	2058	205
Little Bay Islands	586	275
	2035	450
	2063	210
McCallum	2064	136
	589	100
	2045	925
Ramea	2077	925
	2047	925
	578	277
St. Brendan's	2055	210
	2056	225
	2087	545
	2088	910
Charlottetown	2079	759
	2034	300
	2089	725
	2041	1000
	2012	1100
L'Anse Au Loup	2005	800
·	246	600
	247	600
	2082	1825
	2037	545
Mary's Harbour	2038	545
•	2083	820
	2090	725
Name - Ba	584	40
Norman Bay	581	50
	583	70
Port Hone Circurate	2043	455
Port Hope Simpson	2042	455
	2073	455
Ct. Lauria	2039	365
St. Lewis	2015	200
	2080	455
Milliana a Haybarra	580	80
William's Harbour	2075	210
	2057	90

PUB-NLH-370, Attachment 1
Page 3 of 4, Isl Int System Power Outages

rage 3 01 4,		1 ugc 3 01 4, 131
Location	Unit Number	Rating, kW
	582	300
Black Tickle	579	250
	2066	455
	2036	450
Cont. minks	2045	450
Cartwright	2052	720
	2086	600
	2053	545
Hopedale	2054	448
	2074	569
	2029	450
Makkovik	3033	450
	2059	635
	574	865
Nain	576	865
	2085	1275
	254	50
Paradise River	324	48
	585	50
	573	275
Postville	577	252
	2084	365
	2051	545
Rigolet	2065	320
	2081	455
Mobile Unit	2044	600
Mobile Unit	2070	205
Mobile Unit	2071	205
1		

¹Hydro also operates and maintains generators in the Natauashish dieseil plant which are owned by others.

Standby Diesel Generators Operated and Maintained by TRO

Location	Unit Number	Rating, kW
Hawke's Bay	547	2500
Hawke 3 Day	548	2500
	521	1000
	522	1000
	523	1000
St. Anthony	525	1000
St. Anthony	544	2000
	546	2000
	229	850
	2003	850
Mud Lake	2050	130
Happy Valley	540	2500
Trappy valley	541	2500