

1 Q. Identify the dates and nature of any interconnections to the Hydro Rural
2 system in the period 1992 – 2000 and the operating load impacts for Hydro
3 Rural of those connections for 1992 – 2000.

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6 A. There were six systems interconnected to the Hydro rural system in the
7 period 1992 – 2000.

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9 The Petite Forte system was interconnected to the Island Interconnected
10 System in September 1993. This utilized 18 km of 14.4 kV single phase
11 overhead distribution line, originating at Newfoundland Power’s Brookside
12 Substation.

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14 The St. Anthony-Roddickton system was interconnected to the Island
15 Interconnected system in September 1996. This required the construction of
16 103.8 km of 138 kV transmission line, 47.8 km of 69 kV transmission line,
17 conversion of 86.8 km of 66 kV transmission line to 138 kV operation,
18 conversion of the existing 66/12.5 kV terminal stations at Plum Point and
19 Bear Cove to 138/12.5 kV stations, construction of a 138/69 kV station at St.
20 Anthony Airport and construction of a 69/25 kV terminal station at St.
21 Anthony Diesel Plant.

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23 The Westport system was interconnected to the Island Interconnected
24 system in October 1996. This utilized 40.5 km of 14.4 kV single phase
25 overhead distribution line originating at Newfoundland Power’s Seal Cove
26 Road Substation.

1 The South East Bight system was interconnected to the Island
2 Interconnected system in March 1998. This utilized 24 km of 14.4 kV single
3 phase overhead distribution line originating at Monkstown.

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5 The Mud Lake system was interconnected to the Labrador Interconnected
6 system in November 1998. This utilized 9 km of 14.4 kV single phase
7 overhead distribution line and a 1.5 km submarine cable originating at Happy
8 Valley.

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10 The Lapoile system was interconnected to the Island Interconnected system
11 in December 1999. This utilized 11 km of 14.4 kV single phase overhead
12 distribution line and a 3.7 km submarine cable originating at Grand Bruit.

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14 For operating load impacts for Hydro Rural of these connections for 1992 –
15 2000, please see attached table.

OPERATING LOAD IMPACTS OF HYDRO RURAL SYSTEMS INTERCONNECTED 1992 - 2000
Annual Energy Sales (at Bulk Delivery Point) and Peak Demand

Date of Interconnection		1993		1994		1995		1996		1997		1998		1999		2000	
		MWh	kW	MWh	kW	MWh	kW	MWh	kW	MWh	kW	MWh	kW	MWh	kW	MWh	kW
1993	Petite Forte	149	137	474	150	492	172	485	171	486	182	484	184	485	172	502	173
1996	Roddickton/St. Anthony ¹							15350	9692	45939	10160	47720	10872	50214	11636	53052	11069
1996	Westport							288	424	1527	432	1553	432	1583	396	1626	468
1998	South East Bight ²											383	145	554	N/A	564	N/A
1999	La Poile ²													576	N/A	613	N/A
	Total	149	137	474	150	492	172	16123	10287	47952	10774	50140	11633	53412	12204	56357	11710
1998	Mud Lake ³													N/A	N/A	N/A	N/A

1. Peaks for Roddickton/St. Anthony are an aggregate of non-coincident peaks
2. South East Bight and LaPoile loads are estimated based on sales to customers.
3. Mud Lake is not metered separately from Happy Valley