

1 Q. The AMEC Newfoundland and Labrador Hydro, Holyrood Thermal Generating
2 Station Condition Assessment & Life Extension Study report indicates the number of
3 starts for each steam turbine. However, the report does not differentiate the type
4 of start ie. cold, warm or hot, which has an impact on life of the turbine. It is our
5 understanding that the plant maintains a summary of the number of starts and type
6 of start each year for each steam turbine. Please provide the summary of starts for
7 as far back as records have been maintained.

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10 A. The following table contains unit start data available back to 1991. Please note that
11 records are not kept distinguishing between hot and warm starts. Accordingly,
12 starts were only categorized as either being cold or hot (ie, “not cold”).

Holyrood Unit Start Data: 1991-2010									
Year	Unit 1			Unit 2			Unit 3		
	Hot	Cold	Total	Hot	Cold	Total	Hot	Cold	Total
1991	11	2	13	19	4	23	3	5	8
1992	21	1	22	11	4	15	8	4	12
1993	13	1	14	12	5	17	9	4	13
1994	8	1	9	3	4	7	16	5	21
1995	7	1	8	10	4	14	15	5	20
1996	8	3	11	16	5	21	5	4	9
1997	4	3	7	7	1	8	8	2	10
1998	7	2	9	4	5	9	3	1	4
1999	5	4	9	10	2	12	4	2	6
2000	7	4	11	9	2	11	3	1	4
2001	14	2	16	8	2	10	8	3	11
2002	9	4	13	10	3	13	13	2	15
2003	4	3	7	12	2	14	9	3	12
2004	9	3	12	10	2	12	5	4	9
2005	5	1	6	10	3	13	11	3	14
2006	16	3	19	5	2	7	8	1	9
2007	19	2	21	7	2	9	8	3	11
2008	10	7	17	6	3	9	6	1	7
2009	10	2	12	3	3	6	3	1	4
2010	4	2	6	8	4	12	7	1	8
Totals	191	51	242	180	62	242	152	55	207

Note that the total starts listed in Sections 8.1.1.1, 8.1.2.2 and 8.1.4.2 in the AMEC report do not match the above table as the information in the AMEC report includes operation prior to 1991 when tracking hot versus cold starts commenced.