- 1 Q. The Quarterly Regulatory Report for the Period ending March 31, 2007 (page 6) 2 states that NP employs a peak load management strategy which includes voltage 3 optimization and load curtailment in an attempt to reduce peak demand. The peak load management strategy was implemented on four occasions during the 2006/2007 4 5 winter period from December 1st to March 31st. Peak demand for the 2006/2007 6 winter period occurred on December 29th, 2006. Implementation of the peak load 7 management strategy on that date reduced peak demand below plan by 8 approximately 23 MW. Please provide a detailed list of activities undertaken on 9 each of these four occasions identifying the contribution of each to the reduction in 10 peak. What was the value of the 23 MW reduction on December 29, 2006 to the system? 11 12 13 Newfoundland Power's peak load management strategy includes voltage optimization A. procedures, customer load curtailment and Company building load curtailment. Customer 14 load curtailment and Company building load curtailment are established strategies for 15 16 reducing peak demand, and as such are included in the calculation of the native peak
- forecast as explained in the response to CA-NP-216.
 The actual customer load curtailment and Company building load curtailment achieved
 are the four accessions referred to in the question are provided in Table 1 below.
- 20 on the four occasions referred to in the question are provided in Table 1 below. 21

Table 12006/2007 Winter SeasonImpact of Load Curtailment Activities

	Peak Load Management Period		Customer Load Curtailment	Curtailment of Load at Company Buildings
Date	Start	End	(MW)	(MW)
2007/01/18	08:00	11:00	10.6	1.5
2007/01/18	17:00	18:00	9.7	0.0
2007/01/17	16:45	19:00	10.2	2.3
2006/12/29	16:30	18:30	7.2	1.8

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The application of voltage optimization as a peak load management strategy is under investigation by Newfoundland Power. Tests conducted over the past two winter seasons indicate that, while system load decreases are achievable, further experience with voltage control management is necessary to understand and manage its effects on the power system and to assess its long-term value.

30Due to the complex nature of the power system's response to voltage reduction the31Company is unable to verify the actual amount of load reduction achieved at the time of

²²

1 2	peak, and is therefore unable to provide an engineering value of load reduction for the occasions included in Table 1.
3 4 5	The value to consumers of peak load reduction to the system is discussed in the response to CA-NP-80.