

1 **In reference to Schedule “B”, page 20 of 82 – replacement and spare substation equipment**
 2 **– at a project cost of \$1,107,000:**

3
 4 **Q. Please provide the causes for the interruptions in each particular case.**

5
 6 A. Table 1 provides a summary of the causes for power interruptions from 1997 to 2001 for
 7 Marystown (MSY), Frenchman’s Cove (FRN), Gillams (GIL), Blaketown (BLK),
 8 Clarenville (CLV), St John’s (SJM), St. George’s (STG), Pasadena (PAS) and Colliers
 9 (COL) Substations.
 10

Table 1 Power Interruptions 1997 - 2001									
Reason for Power Interruption	Substations								
	MSY	FRN	GIL	BLK	CLV	SJM	STG	PAS	COL
Animals (Rodents Etc.)	8	14	10	7	6	1	3	38	10
Birds	4	5	3	12		6	3		1
Broken or Defective Equipment	161	72	56	351	62	171	36	36	116
Damages Outside Party	3	2	1	4	4	10		2	3
Employee Operating Error		2				2			2
Fire				2		5	1		1
Generating Plant or System Problem	48	15	8	13	16	88	1	2	4
Improperly Installed Equipment				2		1			3
Lightning	32	5	6	79	6	5	10	8	28
NLH System Problems	12						6		
NP System Problems	4	2			6	14			1
Other	20	19	11	19	5	33	8	5	4
Overloaded Equipment	1		1	5	2	3		2	1
Plant Upgrades	12	7	35	19	5	16	53	12	11
Preventative Maintenance or Repair	68	89	75	41	17	106	94	87	29
Salt Spray	14	7	1			1	67		
Sleet	12			18	2	14	1		1
Snow	2			2		22			
Trees in Line	4	1	3	6	1	3	1	15	8
Underground Dig In								1	
Under Frequency					4	39			
Unexplained	27	9	8	25	15	9	1	8	7
Vandalism						4	1	1	
Vehicles				2					
Water in Equipment or Vaults						1			
Wind	20	14	4	36	14	31	9		4