

In reference to Schedule "B", page 31 of 82 – Rebuild Transmission Lines – at a project cost of \$4,129,000:

Q. Please provide the system average interruption frequency index (SAIFI) and the system average interruption duration index (SAIDI) in hours for the areas served through the Goulds, Mobile, Clarenville, Grand Beach, Salt Pond, Gambo, Bayview and Massey Drive substations and also state the causes of the outages from the years 1995 to the present.

A. Table 1 provides the SAIDI statistics and Table 2 provides the SAIFI statistics requested for 1995 and September 2002:

Table 1 SAIDI (hours)								
Substation	1995	1996	1997	1998	1999	2000	2001	2002*
Bayview (BVS)	1.31	1.50	4.72	3.79	2.35	2.74	1.40	1.05
Clarenville (CLV)	2.87	5.01	0.21	4.57	1.45	1.97	0.40	1.32
Gambo (GAM)	4.06	2.59	0.45	5.36	8.04	3.10	0.84	4.64
Grand Beach (GBE)	3.21	8.03	11.71	3.44	15.64	3.49	2.90	20.92
Goulds (GOU)	2.85	0.66	1.19	2.95	5.21	3.83	2.97	0.36
Mobile (MOB)	6.13	0.42	1.99	4.50	6.44	6.69	3.39	0.21
Salt Pond (SPO)	3.40	1.87	4.28	7.22	1.88	6.43	0.66	16.12

* January to September 2002.

Table 2 SAIFI (interruptions)								
Substation	1995	1996	1997	1998	1999	2000	2001	2002*
Bayview (BVS)	0.76	2.14	2.15	2.27	0.84	1.83	3.47	1.12
Clarenville (CLV)	6.99	3.89	1.06	5.44	4.27	1.36	0.35	4.30
Gambo (GAM)	1.94	2.44	0.38	4.06	3.98	5.08	4.15	4.27
Grand Beach (GBE)	3.38	4.75	9.89	12.96	10.77	5.89	2.45	13.18
Goulds (GOU)	4.96	1.41	2.98	2.43	2.02	2.37	2.89	0.62
Mobile (MOB)	6.10	1.34	2.60	5.83	2.88	2.61	3.98	0.75
Salt Pond (SPO)	3.21	5.86	4.91	12.56	2.84	7.57	1.14	12.92

* January to September 2002.

** Because the Massey Drive substation does not supply any customers directly, SAIDI and SAIFI statistics do not exist.

Table 3 summarizes the causes of outages for the period of January 1995 to September 2002 for each substation.

Table 3 Number of Outages by Substation							
Cause of Outage	Substations						
	BVS	CLV	GAM	GBE	GOU	MOB	SPO
Animals (Rodents, etc)	19	10	8	2	4	11	6
Birds	5	2	8	-	4	4	1
Broken or Defective Equip.	128	94	74	36	145	106	246
Damages Outside Party	6	9	10	1	6	3	2
Employee Operating Error	-	4	-	-	3	3	-
Fire	3	-	-	-	-	-	1
Gen. Plant/System Problem	7	40	4	29	25	24	51
Improperly Installed Equip.	-	-	-	-	-	-	-
Lightning	39	31	21	6	15	58	36
NLH System Problems	-	-	-	4	-	-	14
NP System Problems	-	6	-	-	3	2	-
Other	31	6	14	2	19	12	31
Overloaded Equipment	1	2	-	1	1	1	4
Plant Upgrades	24	23	19	-	25	5	26
Preventative Maint./Repair	168	19	34	13	112	59	142
Salt Spray	-	-	-	5	2	4	1
Sleet	-	2	2	2	16	7	5
Snow	-	-	-	1	6	4	-
Trees in Line	17	2	5	-	-	1	1
Under Frequency	-	10	-	-	-	-	-
Unexplained	21	32	5	5	5	6	26
Vandalism	-	-	3	-	-	1	-
Vehicles	1	-	-	-	3	-	-
Water in Equip. or Vaults	1	-	-	-	-	-	1
Wind	14	14	4	2	18	10	20