

April 5, 2018

The Board of Commissioners of Public Utilities
Prince Charles Building
120 Torbay Road, P.O. Box 21040
St. John's, NL A1A 5B2

Attention: Ms. Cheryl Blundon
Director Corporate Services & Board Secretary

Dear Ms. Blundon:

Re: Newfoundland and Labrador Hydro – Application for Approval to Defer the 2015, 2016, and 2017 Balances in i) the Isolated Systems Supply Cost Variance Deferral Account; ii) the Energy Supply Cost Variance Deferral Account; iii) the Holyrood Conversion Rate Deferral Account

Enclosed please find the original plus 10 copies of revisions to Appendix L of Newfoundland and Labrador Hydro's (Hydro's) Application for approval to defer 2015, 2016, and 2017 balances in: i) the Isolated Systems Supply Cost Variance Deferral Account; ii) the Energy Supply Cost Variance Deferral Account; and iii) the Holyrood Conversion Rate Deferral Account (Application).

Following submission of the Application on March 29, 2018, Hydro became aware that Appendix L – Generating Unit Operating Data inadvertently included data for generating units which are not included in the Energy Supply Cost Variance Deferral Account, and omitted the Holyrood Gas Turbine and Hawke's Bay. This has been corrected in the attached. Hydro apologizes for any inconvenience or confusion that this may have caused.

Should you have any questions, please contact the undersigned.

Yours truly,

NEWFOUNDLAND AND LABRADOR HYDRO



Geoffrey P. Young
Corporate Secretary & General Counsel

GPY/bds

Encl.

cc: Gerard Hayes – Newfoundland Power
Paul Coxworthy – Stewart McKelvey Stirling Scales
Sheryl Nisenbaum – Praxair Canada Inc.
ecc: Denis Fleming – Cox & Palmer

Dennis Browne, QC – Consumer Advocate
Dean Porter – Poole Althouse

Larry Bartlett – Teck Resources Limited

2015

<u>Holyrood Gas Turbine</u>	<u>Holyrood Gas Turbine</u>	<u>Operation Time</u>	<u>Reason for Operation</u>
<u>Start Time</u>	<u>Stop Time</u>	<u>(Hours)</u>	
3/2/2015 6:58	3/2/2015 13:38	6.7	Backup due to the loss of a major generating unit
3/2/2015 15:30	3/2/2015 21:57	6.4	Backup due to the loss of a major generating unit
3/3/2015 6:58	3/3/2015 23:43	16.7	Backup due to the loss of a major generating unit
3/4/2015 7:25	3/4/2015 18:58	11.5	Backup due to the loss of a major generating unit
3/6/2015 2:10	3/7/2015 13:09	35.0	Support of spinning reserve
3/9/2015 3:24	3/9/2015 8:58	5.6	Support of spinning reserve
3/10/2015 3:23	3/10/2015 11:02	7.6	Support of spinning reserve
3/11/2015 3:21	3/11/2015 10:32	7.2	Support of spinning reserve
3/11/2015 11:15	3/11/2015 13:17	2.0	Backup due to the loss of a major generating unit
3/12/2015 3:21	3/13/2015 23:25	44.1	Backup due to the loss of a major generating unit
3/14/2015 7:49	3/14/2015 21:08	13.3	Support of spinning reserve
3/15/2015 5:00	3/15/2015 9:20	4.3	Support of spinning reserve
3/16/2015 2:50	3/16/2015 8:32	5.7	Support of spinning reserve
3/22/2015 19:30	3/22/2015 19:45	0.2	Testing
3/23/2015 13:04	3/23/2015 15:11	2.1	Testing
3/26/2015 9:45	3/26/2015 11:47	2.0	Testing
3/31/2015 6:23	3/31/2015 8:48	2.4	Support of spinning reserve
4/1/2015 6:36	4/1/2015 8:40	2.1	Support of spinning reserve
4/7/2015 10:39	4/7/2015 12:55	2.3	Testing
4/12/2015 11:53	4/12/2015 18:07	6.2	Testing
4/13/2015 7:34	4/13/2015 16:49	9.2	Testing
4/14/2015 10:25	4/14/2015 14:48	4.4	Testing
4/16/2015 18:03	4/16/2015 23:36	5.5	Support of spinning reserve
4/17/2015 5:55	4/17/2015 10:49	4.9	Support of spinning reserve
4/18/2015 3:33	4/18/2015 7:23	3.8	Backup due to the loss of a major generating unit
4/19/2015 20:12	4/19/2015 20:37	0.4	Support of spinning reserve
4/28/2015 7:13	4/28/2015 9:34	2.3	Support of spinning reserve
5/5/2015 7:07	5/5/2015 9:22	2.3	Planned generation outages
5/6/2015 6:53	5/6/2015 8:57	2.1	Planned generation outages
5/14/2015 18:30	5/14/2015 19:11	0.7	Testing
5/20/2015 10:20	5/20/2015 12:13	1.9	Testing
5/23/2015 13:15	5/23/2015 17:08	3.9	Testing
5/24/2015 10:09	5/24/2015 19:24	9.2	Testing
6/18/2015 18:52	6/18/2015 19:18	0.4	Testing
6/19/2015 17:52	6/19/2015 19:13	1.4	Testing
7/2/2015 15:25	7/2/2015 16:04	0.7	Testing
8/1/2015 7:35	8/1/2015 19:52	12.3	Planned generation outages
8/2/2015 9:11	8/2/2015 13:22	4.2	Planned generation outages
8/3/2015 8:47	8/3/2015 21:21	12.6	Planned generation outages
8/4/2015 10:38	8/4/2015 22:25	11.8	Planned generation outages
8/5/2015 10:43	8/5/2015 16:31	5.8	Planned generation outages
8/5/2015 18:31	8/5/2015 21:33	3.0	Planned generation outages
8/6/2015 10:28	8/6/2015 21:47	11.3	Planned generation outages
8/7/2015 9:19	8/7/2015 21:10	11.9	Planned generation outages
8/9/2015 11:23	8/9/2015 22:31	11.1	Planned generation outages
8/10/2015 8:39	8/10/2015 21:09	12.5	Planned generation outages
8/11/2015 20:45	8/11/2015 21:42	0.9	Planned generation outages
8/12/2015 9:59	8/12/2015 22:09	12.2	Planned generation outages
8/13/2015 8:50	8/13/2015 21:10	12.3	Planned generation outages
8/14/2015 9:25	8/14/2015 21:39	12.2	Planned generation outages
8/15/2015 10:53	8/15/2015 20:28	9.6	Planned generation outages
8/16/2015 10:56	8/16/2015 18:10	7.2	Planned generation outages
8/17/2015 8:54	8/17/2015 21:09	12.2	Planned generation outages
8/18/2015 8:28	8/18/2015 20:39	12.2	Planned generation outages
9/9/2015 7:24	9/9/2015 21:43	14.3	Backup due to the loss of a major generating unit
9/10/2015 7:55	9/10/2015 21:48	13.9	Backup due to the loss of a major generating unit
9/11/2015 10:49	9/11/2015 21:03	10.2	Backup due to the loss of a major generating unit
9/26/2015 19:35	9/26/2015 21:45	2.2	Support of spinning reserve

2015

<u>Holyrood Gas Turbine</u> <u>Start Time</u>	<u>Holyrood Gas Turbine</u> <u>Stop Time</u>	<u>Operation Time</u> <u>(Hours)</u>	<u>Reason for Operation</u>
9/27/2015 15:34	9/27/2015 21:27	5.9	Support of spinning reserve
10/22/2015 7:27	10/22/2015 9:28	2.0	Support of spinning reserve
10/25/2015 8:44	10/25/2015 9:54	1.2	Testing
11/3/2015 6:57	11/3/2015 20:59	14.0	Planned Avalon Peninsula transmission outages
11/4/2015 6:30	11/4/2015 22:57	16.5	Planned Avalon Peninsula transmission outages
11/5/2015 6:25	11/5/2015 22:57	16.5	Planned Avalon Peninsula transmission outages
11/6/2015 6:35	11/6/2015 21:37	15.0	Planned Avalon Peninsula transmission outages
11/8/2015 9:34	11/8/2015 23:28	13.9	Planned Avalon Peninsula transmission outages
11/9/2015 6:35	11/9/2015 23:02	16.5	Planned Avalon Peninsula transmission outages
11/10/2015 6:25	11/10/2015 23:07	16.7	Planned Avalon Peninsula transmission outages
11/11/2015 11:47	11/11/2015 23:58	12.2	Planned Avalon Peninsula transmission outages
11/12/2015 6:34	11/12/2015 22:01	15.5	Planned Avalon Peninsula transmission outages
11/13/2015 13:29	11/13/2015 16:42	3.2	Planned Avalon Peninsula transmission outages
11/14/2015 9:12	11/14/2015 14:00	4.8	Planned Avalon Peninsula transmission outages
11/19/2015 15:47	11/19/2015 21:24	5.6	Support of spinning reserve
11/27/2015 7:49	11/27/2015 9:22	1.5	Planned generation outages
11/27/2015 11:19	11/27/2015 21:38	10.3	Backup due to the loss of a major generating unit
11/29/2015 7:50	11/29/2015 12:36	4.8	Planned Avalon Peninsula transmission outages
11/30/2015 5:32	11/30/2015 23:02	17.5	Support of spinning reserve
12/1/2015 5:38	12/1/2015 10:04	4.4	Support of spinning reserve
12/1/2015 16:19	12/1/2015 21:24	5.1	Support of spinning reserve
12/2/2015 5:46	12/2/2015 11:40	5.9	Backup due to the loss of a major generating unit
12/2/2015 16:01	12/2/2015 21:59	6.0	Backup due to the loss of a major generating unit
12/9/2015 8:28	12/9/2015 9:31	1.0	Support of spinning reserve
12/9/2015 15:01	12/9/2015 22:11	7.2	Backup due to the loss of a major generating unit
12/10/2015 7:25	12/10/2015 10:12	2.8	Backup due to the loss of a major generating unit
12/10/2015 15:50	12/10/2015 21:20	5.5	Backup due to the loss of a major generating unit
12/15/2015 5:56	12/15/2015 22:16	16.3	Backup due to the loss of a major generating unit
12/16/2015 5:44	12/16/2015 23:10	17.4	Backup due to the loss of a major generating unit
12/17/2015 15:57	12/17/2015 21:07	5.2	Planned Avalon Peninsula transmission outages
12/22/2015 16:02	12/22/2015 21:46	5.7	Support of spinning reserve
12/23/2015 15:59	12/23/2015 19:39	3.7	Support of spinning reserve
12/27/2015 16:20	12/27/2015 18:33	2.2	Support of spinning reserve
12/28/2015 14:32	12/29/2015 0:08	9.6	Support of spinning reserve
12/29/2015 6:12	12/29/2015 23:05	16.9	Support of spinning reserve
12/30/2015 5:43	12/30/2015 23:13	17.5	Support of spinning reserve
12/31/2015 9:16	12/31/2015 19:11	9.9	Support of spinning reserve

2015

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
1/1/2015 6:11	1/1/2015 19:15	13.1	Backup due to the loss of a major generating unit
1/3/2015 6:15	1/4/2015 21:35	39.3	Support of spinning reserve
1/6/2015 6:41	1/6/2015 20:38	14.0	Support of spinning reserve
1/7/2015 16:32	1/7/2015 21:08	4.6	Support of spinning reserve
1/8/2015 10:51	1/8/2015 19:27	8.6	Support of spinning reserve
1/9/2015 6:23	1/9/2015 11:01	4.6	Planned generation outages
1/11/2015 16:49	1/11/2015 20:01	3.2	Support of spinning reserve
1/12/2015 8:07	1/12/2015 10:21	2.2	Backup due to the loss of a major generating unit
1/13/2015 15:33	1/13/2015 20:06	4.5	Support of spinning reserve
1/14/2015 6:49	1/14/2015 10:45	3.9	Support of spinning reserve
1/14/2015 16:05	1/14/2015 18:16	2.2	Support of spinning reserve
1/17/2015 13:14	1/17/2015 17:38	4.4	Support of spinning reserve
1/22/2015 9:29	1/22/2015 12:54	3.4	Support of spinning reserve
1/23/2015 9:45	1/23/2015 12:52	3.1	Testing
1/27/2015 15:12	1/27/2015 21:17	6.1	Support of spinning reserve
2/4/2015 6:55	2/4/2015 8:09	1.2	Support of spinning reserve
2/5/2015 6:46	2/5/2015 9:08	2.4	Support of spinning reserve
2/5/2015 10:21	2/5/2015 16:47	6.4	Testing
2/9/2015 6:31	2/9/2015 12:02	5.5	Support of spinning reserve
2/9/2015 15:53	2/9/2015 20:56	5.0	Support of spinning reserve
2/10/2015 6:55	2/10/2015 13:35	6.7	Support of spinning reserve
2/11/2015 8:32	2/11/2015 18:29	9.9	Support of spinning reserve
2/12/2015 6:47	2/12/2015 18:54	12.1	Support of spinning reserve
2/18/2015 11:19	2/18/2015 17:08	5.8	Testing
2/19/2015 11:38	2/19/2015 15:42	4.1	Testing
2/21/2015 10:23	2/21/2015 16:02	5.7	Testing
2/24/2015 16:50	2/24/2015 20:15	3.4	Support of spinning reserve
2/25/2015 6:36	2/25/2015 8:41	2.1	Support of spinning reserve
2/28/2015 6:37	2/28/2015 9:42	3.1	Backup due to the loss of a major generating unit
2/28/2015 10:28	2/28/2015 23:17	12.8	Backup due to the loss of a major generating unit
3/1/2015 6:25	3/1/2015 12:22	6.0	Backup due to the loss of a major generating unit
3/1/2015 16:35	3/1/2015 18:23	1.8	Backup due to the loss of a major generating unit
3/3/2015 15:08	3/3/2015 23:11	8.0	Backup due to the loss of a major generating unit
3/4/2015 6:11	3/4/2015 7:52	1.7	Backup due to the loss of a major generating unit
3/4/2015 9:27	3/4/2015 18:14	8.8	Backup due to the loss of a major generating unit
3/5/2015 11:25	3/5/2015 11:32	0.1	Testing
3/6/2015 4:10	3/6/2015 13:58	9.8	Support of spinning reserve
3/7/2015 4:02	3/7/2015 8:09	4.1	Support of spinning reserve
3/7/2015 12:57	3/7/2015 19:07	6.2	Support of spinning reserve

2015

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
3/8/2015 7:38	3/8/2015 8:33	0.9	Support of spinning reserve
3/9/2015 17:00	3/9/2015 20:51	3.8	Support of spinning reserve
3/10/2015 7:49	3/10/2015 8:46	0.9	Support of spinning reserve
3/10/2015 18:07	3/10/2015 20:53	2.8	Support of spinning reserve
3/12/2015 6:04	3/12/2015 11:57	5.9	Backup due to the loss of a major generating unit
3/12/2015 17:01	3/12/2015 21:26	4.4	Backup due to the loss of a major generating unit
3/13/2015 3:25	3/13/2015 12:17	8.9	Backup due to the loss of a major generating unit
3/13/2015 16:49	3/13/2015 20:38	3.8	Support of spinning reserve
3/14/2015 6:38	3/14/2015 9:27	2.8	Support of spinning reserve
3/16/2015 9:21	3/16/2015 13:20	4.0	Backup due to the loss of a major generating unit
3/17/2015 16:29	3/17/2015 16:34	0.1	Testing
3/25/2015 15:58	3/25/2015 16:08	0.2	Testing
4/2/2015 6:36	4/2/2015 8:13	1.6	Planned Avalon Peninsula transmission outages
4/13/2015 7:22	4/13/2015 8:03	0.7	Backup due to the loss of a major generating unit
4/16/2015 7:24	4/16/2015 12:49	5.4	Support of spinning reserve
4/16/2015 16:29	4/16/2015 18:19	1.8	Support of spinning reserve
4/21/2015 7:11	4/21/2015 8:41	1.5	Support of spinning reserve
4/22/2015 7:31	4/22/2015 8:45	1.2	Support of spinning reserve
5/18/2015 16:41	5/18/2015 18:07	1.4	Support of spinning reserve
5/18/2015 20:59	5/18/2015 21:49	0.8	Support of spinning reserve
7/28/2015 15:24	7/28/2015 15:49	0.4	Testing
7/28/2015 18:42	7/28/2015 18:45	0.0	Testing
7/31/2015 15:16	7/31/2015 18:09	2.9	Testing
8/1/2015 19:22	8/1/2015 22:27	3.1	Planned generation outages
8/2/2015 13:00	8/2/2015 13:52	0.9	Planned generation outages
8/2/2015 18:03	8/2/2015 23:01	5.0	Planned generation outages
8/11/2015 11:45	8/11/2015 13:01	1.3	Planned generation outages
8/11/2015 20:35	8/11/2015 20:43	0.1	Planned generation outages
8/12/2015 8:42	8/12/2015 9:53	1.2	Planned generation outages
9/8/2015 11:08	9/8/2015 13:31	2.4	Planned Avalon Peninsula transmission outages
9/8/2015 20:06	9/8/2015 22:31	2.4	Planned Avalon Peninsula transmission outages
9/15/2015 9:56	9/15/2015 11:15	1.3	Testing
9/27/2015 8:04	9/27/2015 15:51	7.8	Backup due to the loss of a major generating unit
10/9/2015 16:08	10/9/2015 16:13	0.1	Testing
10/21/2015 15:06	10/21/2015 15:08	0.0	Testing
10/23/2015 20:10	10/23/2015 20:15	0.1	Testing
11/1/2015 17:36	11/1/2015 18:26	0.8	Support of spinning reserve
11/2/2015 16:29	11/2/2015 18:58	2.5	Support of spinning reserve
11/3/2015 10:47	11/3/2015 11:07	0.3	Testing

2015

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
11/3/2015 19:13	11/3/2015 19:32	0.3	Planned Avalon Peninsula transmission outages
11/3/2015 20:07	11/3/2015 23:01	2.9	Planned Avalon Peninsula transmission outages
11/4/2015 13:27	11/4/2015 13:38	0.2	Testing
11/4/2015 17:12	11/4/2015 18:23	1.2	Planned Avalon Peninsula transmission outages
11/5/2015 16:00	11/5/2015 18:50	2.8	Planned Avalon Peninsula transmission outages
11/11/2015 7:26	11/11/2015 12:01	4.6	Planned Avalon Peninsula transmission outages
11/17/2015 17:00	11/17/2015 18:26	1.4	Support of spinning reserve
11/18/2015 16:00	11/18/2015 21:57	6.0	Support of spinning reserve
11/19/2015 8:54	11/19/2015 10:24	1.5	Support of spinning reserve
11/20/2015 7:23	11/20/2015 9:54	2.5	Support of spinning reserve
11/20/2015 16:29	11/20/2015 17:39	1.2	Support of spinning reserve
11/23/2015 17:31	11/23/2015 17:36	0.1	Testing
11/27/2015 11:29	11/27/2015 11:44	0.2	Testing
11/27/2015 13:57	11/27/2015 19:04	5.1	Testing
11/30/2015 15:42	11/30/2015 16:09	0.5	Support of spinning reserve
11/30/2015 16:53	11/30/2015 21:04	4.2	Support of spinning reserve
12/1/2015 7:28	12/1/2015 8:18	0.8	Support of spinning reserve
12/2/2015 11:29	12/2/2015 14:13	2.7	Backup due to the loss of a major generating unit
12/3/2015 12:49	12/3/2015 13:00	0.2	Testing
12/4/2015 16:39	12/4/2015 18:18	1.6	Support of spinning reserve
12/9/2015 12:07	12/9/2015 16:03	3.9	Backup due to the loss of a major generating unit
12/10/2015 7:13	12/10/2015 8:21	1.1	Backup due to the loss of a major generating unit
12/14/2015 16:35	12/14/2015 18:20	1.8	Backup due to the loss of a major generating unit
12/15/2015 16:35	12/15/2015 18:39	2.1	Backup due to the loss of a major generating unit
12/16/2015 16:12	12/16/2015 18:07	1.9	Backup due to the loss of a major generating unit
12/24/2015 16:15	12/24/2015 17:55	1.7	Support of spinning reserve
12/28/2015 10:40	12/28/2015 14:49	4.1	Support of spinning reserve
12/29/2015 8:17	12/29/2015 21:17	13.0	Support of spinning reserve
12/30/2015 16:35	12/30/2015 20:55	4.3	Support of spinning reserve
12/31/2015 6:48	12/31/2015 12:03	5.3	Support of spinning reserve
12/31/2015 18:07	12/31/2015 20:45	2.6	Support of spinning reserve

2015

Stephenville Gas Turbine Start Time	Stephenville Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
1/3/2015 12:35	1/4/2015 21:23	32.8	Support of spinning reserve
1/6/2015 5:56	1/6/2015 11:27	5.5	Support of spinning reserve
1/6/2015 16:05	1/6/2015 21:56	5.9	Support of spinning reserve
1/7/2015 16:05	1/7/2015 18:55	2.8	Support of spinning reserve
1/8/2015 15:44	1/8/2015 18:49	3.1	Support of spinning reserve
1/9/2015 6:05	1/9/2015 11:22	5.3	Planned generation outages
1/12/2015 9:34	1/12/2015 10:07	0.6	Backup due to the loss of a major generating unit
1/13/2015 15:43	1/13/2015 19:22	3.6	Support of spinning reserve
1/14/2015 6:58	1/14/2015 9:42	2.7	Support of spinning reserve
1/14/2015 15:57	1/14/2015 18:27	2.5	Support of spinning reserve
1/22/2015 9:53	1/22/2015 12:47	2.9	Support of spinning reserve
1/23/2015 9:43	1/23/2015 12:45	3.0	Testing
1/27/2015 15:26	1/27/2015 19:10	3.7	Support of spinning reserve
1/29/2015 16:22	1/29/2015 17:40	1.3	Testing
1/31/2015 7:22	1/31/2015 17:00	9.6	Planned transmission outages off Avalon
2/5/2015 10:04	2/5/2015 17:54	7.8	Testing
2/9/2015 12:31	2/9/2015 21:43	9.2	Support of spinning reserve
2/10/2015 6:58	2/10/2015 12:46	5.8	Support of spinning reserve
2/11/2015 8:47	2/11/2015 18:24	9.6	Support of spinning reserve
2/12/2015 12:05	2/12/2015 14:28	2.4	Support of spinning reserve
2/18/2015 11:24	2/18/2015 17:04	5.7	Testing
2/24/2015 16:07	2/24/2015 20:12	4.1	Support of spinning reserve
2/25/2015 6:49	2/25/2015 12:55	6.1	Support of spinning reserve
2/28/2015 6:05	2/28/2015 9:15	3.2	Backup due to the loss of a major generating unit
2/28/2015 17:12	2/28/2015 20:23	3.2	Backup due to the loss of a major generating unit
3/1/2015 6:07	3/1/2015 9:42	3.6	Backup due to the loss of a major generating unit
3/1/2015 18:40	3/1/2015 21:14	2.6	Backup due to the loss of a major generating unit
3/2/2015 5:58	3/2/2015 10:35	4.6	Backup due to the loss of a major generating unit
3/3/2015 18:45	3/3/2015 21:45	3.0	Backup due to the loss of a major generating unit
3/4/2015 6:11	3/4/2015 7:15	1.1	Backup due to the loss of a major generating unit
3/4/2015 7:40	3/4/2015 13:41	6.0	Backup due to the loss of a major generating unit
3/4/2015 17:05	3/4/2015 17:59	0.9	Testing
3/4/2015 20:16	3/4/2015 20:51	0.6	Testing
3/6/2015 4:02	3/6/2015 8:18	4.3	Support of spinning reserve
3/6/2015 8:52	3/6/2015 9:00	0.1	Support of spinning reserve
3/6/2015 9:03	3/6/2015 9:10	0.1	Support of spinning reserve
3/6/2015 11:39	3/6/2015 11:44	0.1	Testing
3/7/2015 4:03	3/7/2015 8:08	4.1	Support of spinning reserve
3/12/2015 6:00	3/12/2015 8:56	2.9	Backup due to the loss of a major generating unit
5/27/2015 15:28	5/27/2015 16:10	0.7	Testing

2015

Stephenville Gas Turbine Start Time	Stephenville Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
5/28/2015 9:41	5/28/2015 9:59	0.3	Testing
5/29/2015 7:50	5/29/2015 8:38	0.8	Testing
5/29/2015 17:26	5/29/2015 17:36	0.2	Testing
6/12/2015 9:45	6/12/2015 11:39	1.9	Testing
6/12/2015 12:01	6/12/2015 16:32	4.5	Testing
6/17/2015 17:05	6/17/2015 17:08	0.0	Testing
6/19/2015 17:23	6/19/2015 17:33	0.2	Testing
6/19/2015 19:13	6/19/2015 20:20	1.1	Testing
7/28/2015 8:58	7/28/2015 9:19	0.3	Testing
7/28/2015 9:55	7/28/2015 10:18	0.4	Testing
7/28/2015 10:56	7/28/2015 11:40	0.7	Testing
7/30/2015 11:28	7/30/2015 12:25	0.9	Testing
7/31/2015 16:21	7/31/2015 17:17	0.9	Testing
8/12/2015 20:07	8/12/2015 21:00	0.9	Testing
8/28/2015 11:12	8/28/2015 12:04	0.9	Testing
8/28/2015 12:54	8/28/2015 13:58	1.1	Testing
8/31/2015 9:35	8/31/2015 10:42	1.1	Testing
11/7/2015 16:43	11/7/2015 16:58	0.2	Testing
11/7/2015 17:29	11/7/2015 17:50	0.3	Testing
11/9/2015 15:40	11/9/2015 18:15	2.6	Testing
11/9/2015 18:35	11/9/2015 18:39	0.1	Testing
11/10/2015 11:08	11/10/2015 11:45	0.6	Testing
11/10/2015 13:10	11/10/2015 15:39	2.5	Testing
11/13/2015 10:22	11/13/2015 10:29	0.1	Testing
11/13/2015 17:31	11/13/2015 17:58	0.5	Testing
11/14/2015 17:30	11/14/2015 17:40	0.2	Testing
11/17/2015 7:40	11/17/2015 10:50	3.2	Support of spinning reserve
11/17/2015 12:49	11/17/2015 19:10	6.3	Support of spinning reserve
11/19/2015 7:10	11/19/2015 17:48	10.6	Planned transmission outages off Avalon
11/20/2015 7:39	11/20/2015 17:13	9.6	Support of spinning reserve
12/1/2015 10:01	12/1/2015 14:40	4.6	Planned transmission outages off Avalon
12/24/2015 12:04	12/24/2015 12:57	0.9	Testing
12/29/2015 16:22	12/29/2015 17:58	1.6	Support of spinning reserve

2015

St. Anthony Diesel Plant Start Time	St. Anthony Diesel Plant End Time	Operation Time (Hours)	Reason for Operation
1/2/2015 14:52	1/2/2015 15:18	0.4	Testing
1/3/2015 15:30	1/3/2015 22:08	6.6	Backup due to the loss of a major generating unit
1/4/2015 16:44	1/4/2015 21:38	4.9	Backup due to the loss of a major generating unit
1/23/2015 13:47	1/23/2015 14:54	1.1	Testing
3/4/2015 7:22	3/4/2015 12:18	4.9	Backup due to the loss of a major generating unit
3/6/2015 15:16	3/6/2015 15:42	0.4	Testing
3/17/2015 14:49	3/17/2015 15:22	0.6	Testing
4/7/2015 10:43	4/7/2015 11:47	1.1	Testing
4/8/2015 11:38	4/8/2015 17:18	5.7	Planned transmission outages off Avalon
7/25/2015 4:49	7/25/2015 6:30	1.7	Planned transmission outages off Avalon
7/28/2015 5:35	7/28/2015 13:15	7.7	Planned transmission outages off Avalon
8/13/2015 4:19	8/13/2015 12:37	8.3	Planned transmission outages off Avalon
8/16/2015 8:14	8/16/2015 16:54	8.7	Planned transmission outages off Avalon
10/3/2015 5:18	10/3/2015 13:59	8.7	Planned transmission outages off Avalon
10/20/2015 9:03	10/20/2015 17:50	8.8	Planned transmission outages off Avalon
10/28/2015 8:57	10/28/2015 16:19	7.4	Planned transmission outages off Avalon
11/17/2015 8:30	11/17/2015 13:40	5.2	Planned transmission outages off Avalon
12/8/2015 10:01	12/8/2015 10:58	0.9	Testing
12/10/2015 18:18	12/10/2015 19:04	0.8	Testing
12/17/2015 17:45	12/17/2015 18:15	0.5	Testing
12/24/2015 10:08	12/24/2015 11:10	1.0	Planned transmission outages off Avalon

2015

<u>Hawkes Bay Diesel Plant</u>	<u>Hawkes Bay Diesel Plant</u>	<u>Operation Time</u>	
<u>Start Time</u>	<u>Stop Time</u>	<u>(Hours)</u>	<u>Reason for Operation</u>
1/3/2015 10:25	1/3/2015 11:16	0.8	Testing
1/4/2015 16:49	1/4/2015 20:52	4.0	Backup due to the loss of a major generating unit
1/5/2015 15:18	1/5/2015 15:46	0.5	Planned transmission outages off Avalon
1/23/2015 9:12	1/23/2015 9:41	0.5	Testing
2/4/2015 12:59	2/4/2015 13:05	0.1	Testing
2/4/2015 14:21	2/4/2015 16:37	2.3	Testing
2/19/2015 14:17	2/19/2015 17:54	3.6	Testing
3/4/2015 7:22	3/4/2015 12:17	4.9	Backup due to the loss of a major generating unit
4/7/2015 13:55	4/7/2015 14:30	0.6	Testing
5/15/2015 11:30	5/15/2015 12:13	0.7	Testing
6/24/2015 13:26	6/24/2015 14:50	1.4	Testing
10/15/2015 13:46	10/15/2015 14:45	1.0	Testing
11/24/2015 9:13	11/24/2015 10:00	0.8	Testing
12/24/2015 9:58	12/24/2015 10:27	0.5	Testing

Line No.	Unit	2015											
		January	February	March	April	May	June	July	August	September	October	November	December
1	Holyrood GT												
2	Energy (kWh) ¹	335,000	1,829,000	8,384,000	3,074,846	1,558,000	50,152	19,000	7,194,000	1,834,000	118,000	12,769,000	8,776,000
3	Fuel Consumption (L)	216,873	713,860	3,337,364	1,087,908	504,867	39,608	29,283	2,956,660	750,677	66,363	4,026,224	2,957,576
4	Cost (\$)	-	-	2,809,865	921,223	376,296	221,667	21,879	1,995,283	449,245	43,968	2,624,150	1,943,133
5	Hardwoods GT												
6	Energy ¹	1,512,000	1,080,000	576,000	72,000	-	-	14,400	129,600	144,000	-	576,000	216,000
7	Fuel Consumption (Gal)	150,240	142,876	73,081	9,620	11,878	-	4,194	15,796	21,021	9,286	45,715	78,742
8	Cost (\$)	672,812	543,994	273,328	32,756	40,444	-	12,622	46,970	62,507	26,447	131,319	223,901
9	Stephenville GT												
10	Energy ¹	640,800	820,800	86,400	-	-	86,400	36,000	36,000	21,600	-	438,480	65,520
11	Fuel Consumption (Gal)	81,189	86,025	31,914	(71)	2,048	8,782	4,917	4,493	201	(22)	43,554	11,446
12	Cost (\$)	355,390	355,576	126,879	(285)	8,189	35,126	19,666	17,972	802	(89)	172,684	43,338
13	St. Anthony Diesel												
14	Energy ¹	47,342	2,952	14,436	45,682	-	-	51,071	95,390	-	160,748	35,975	8,256
15	Fuel Consumption (L)	15,663	981	4,904	14,181	129	-	15,416	29,086	311	49,619	12,483	2,072
16	Cost (\$)	14,009	209	4,055	11,727	(9)	-	12,469	23,525	227	35,018	9,026	1,879
17	Hawkes Bay Diesel												
18	Energy ¹	13,513	28,575	23,918	2,310	2,373	1,029	-	-	-	3,586	3,167	1,428
19	Fuel Consumption (L)	4,351	8,484	6,409	812	836	320	124	286	(35)	1,323	919	531
20	Cost (\$)	4,146	7,330	5,614	716	714	56	106	244	(30)	1,130	785	453

¹Gross Generation.

2016

<u>Holyrood Gas Turbine</u>	<u>Holyrood Gas Turbine</u>	<u>Operation Time</u>	<u>Reason for Operation</u>
<u>Start Time</u>	<u>Stop Time</u>	<u>(Hours)</u>	
1/2/2016 17:52	1/2/2016 20:22	2.5	Support of spinning reserve
1/5/2016 14:53	1/18/2016 10:07	307.2	Backup due to the loss of a major generating unit
1/19/2016 13:16	2/16/2016 16:32	675.3	Backup due to the loss of a major generating unit
2/16/2016 19:24	2/27/2016 10:03	254.6	Backup due to the loss of a major generating unit
2/29/2016 7:13	2/29/2016 8:10	1.0	Support of spinning reserve
3/4/2016 8:02	3/4/2016 9:37	1.6	Support of spinning reserve
3/5/2016 11:48	3/5/2016 19:33	7.7	Support of spinning reserve
3/8/2016 6:15	3/8/2016 11:25	5.2	Support of spinning reserve
3/9/2016 5:26	3/9/2016 11:05	5.6	Support of spinning reserve
3/9/2016 16:51	3/9/2016 21:22	4.5	Support of spinning reserve
3/10/2016 16:55	3/10/2016 21:25	4.5	Support of spinning reserve
3/11/2016 5:36	3/11/2016 9:57	4.4	Support of spinning reserve
3/12/2016 16:51	3/12/2016 22:10	5.3	Support of spinning reserve
3/14/2016 6:24	3/14/2016 23:09	16.7	Support of spinning reserve
3/15/2016 6:18	3/15/2016 10:23	4.1	Support of spinning reserve
3/16/2016 5:56	3/16/2016 11:26	5.5	Support of spinning reserve
3/18/2016 5:57	3/18/2016 12:19	6.4	Support of spinning reserve
3/21/2016 5:38	3/21/2016 11:08	5.5	Support of spinning reserve
3/22/2016 19:14	3/22/2016 22:14	3.0	Support of spinning reserve
3/23/2016 5:28	3/23/2016 14:08	8.7	Support of spinning reserve
3/24/2016 4:30	3/24/2016 19:22	14.9	Support of spinning reserve
4/4/2016 15:58	4/4/2016 22:52	6.9	Support of spinning reserve
4/5/2016 6:33	4/5/2016 22:15	15.7	Support of spinning reserve
4/6/2016 5:38	4/6/2016 21:41	16.0	Support of spinning reserve
4/7/2016 5:39	4/7/2016 9:09	3.5	Support of spinning reserve
4/13/2016 17:03	4/13/2016 18:10	1.1	Testing
4/18/2016 6:13	4/18/2016 10:09	3.9	Support of spinning reserve
4/18/2016 19:44	4/18/2016 22:13	2.5	Support of spinning reserve
4/19/2016 6:01	4/19/2016 23:03	17.0	Support of spinning reserve
4/20/2016 5:33	4/20/2016 23:05	17.5	Support of spinning reserve
4/21/2016 6:01	4/21/2016 11:00	5.0	Support of spinning reserve
4/22/2016 9:43	4/22/2016 21:08	11.4	Support of spinning reserve
4/23/2016 6:46	4/23/2016 12:38	5.9	Planned Avalon Peninsula transmission outages
4/26/2016 5:40	4/26/2016 10:06	4.4	Support of spinning reserve
4/27/2016 5:39	4/27/2016 11:47	6.1	Support of spinning reserve
4/28/2016 5:42	4/28/2016 9:17	3.6	Support of spinning reserve
4/29/2016 5:49	4/29/2016 8:48	3.0	Support of spinning reserve
4/30/2016 6:39	4/30/2016 13:13	6.6	Support of spinning reserve
5/26/2016 17:01	5/26/2016 20:02	3.0	Backup due to the loss of a major generating unit
5/27/2016 6:49	5/27/2016 9:15	2.4	Support of spinning reserve
5/28/2016 8:48	5/28/2016 14:45	6.0	Support of spinning reserve
5/29/2016 7:40	5/29/2016 13:11	5.5	Backup due to the loss of a major generating unit
6/12/2016 11:50	6/12/2016 13:06	1.3	Testing
9/1/2016 16:06	9/1/2016 16:52	0.8	Testing

2016

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
1/2/2016 7:41	1/2/2016 13:09	5.5	Support of spinning reserve
1/2/2016 15:43	1/2/2016 18:48	3.1	Support of spinning reserve
1/5/2016 7:14	1/5/2016 10:30	3.3	Backup due to the loss of a major generating unit
1/5/2016 16:52	1/5/2016 18:29	1.6	Backup due to the loss of a major generating unit
1/6/2016 2:00	1/9/2016 0:19	70.3	Backup due to the loss of a major generating unit
1/9/2016 8:21	1/9/2016 14:32	6.2	Backup due to the loss of a major generating unit
1/9/2016 15:51	1/9/2016 22:41	6.8	Backup due to the loss of a major generating unit
1/10/2016 9:04	1/10/2016 20:00	10.9	Backup due to the loss of a major generating unit
1/11/2016 6:52	1/11/2016 10:48	3.9	Backup due to the loss of a major generating unit
1/11/2016 14:50	1/11/2016 19:27	4.6	Backup due to the loss of a major generating unit
1/12/2016 16:53	1/12/2016 19:54	3.0	Backup due to the loss of a major generating unit
1/13/2016 7:17	1/13/2016 22:44	15.5	Backup due to the loss of a major generating unit
1/14/2016 16:00	1/14/2016 21:04	5.1	Backup due to the loss of a major generating unit
1/15/2016 8:47	1/15/2016 9:20	0.6	Backup due to the loss of a major generating unit
1/15/2016 16:35	1/15/2016 18:22	1.8	Backup due to the loss of a major generating unit
1/18/2016 16:05	1/18/2016 18:30	2.4	Backup due to the loss of a major generating unit
1/19/2016 7:15	1/19/2016 20:59	13.7	Backup due to the loss of a major generating unit
1/21/2016 7:40	1/21/2016 8:32	0.9	Backup due to the loss of a major generating unit
1/21/2016 17:08	1/21/2016 18:30	1.4	Backup due to the loss of a major generating unit
1/22/2016 5:47	1/22/2016 11:01	5.2	Backup due to the loss of a major generating unit
1/22/2016 16:09	1/22/2016 18:58	2.8	Backup due to the loss of a major generating unit
1/23/2016 16:11	1/23/2016 18:57	2.8	Backup due to the loss of a major generating unit
1/24/2016 16:47	1/24/2016 19:20	2.5	Backup due to the loss of a major generating unit
1/25/2016 7:16	1/25/2016 10:18	3.0	Backup due to the loss of a major generating unit
1/26/2016 6:00	1/26/2016 12:13	6.2	Backup due to the loss of a major generating unit
1/26/2016 16:36	1/26/2016 16:56	0.3	Backup due to the loss of a major generating unit
1/29/2016 15:06	1/29/2016 22:32	7.4	Backup due to the loss of a major generating unit
1/30/2016 17:09	1/30/2016 19:17	2.1	Backup due to the loss of a major generating unit
1/31/2016 7:40	1/31/2016 21:38	14.0	Backup due to the loss of a major generating unit
2/1/2016 16:47	2/3/2016 22:31	53.7	Backup due to the loss of a major generating unit
2/3/2016 23:48	2/6/2016 9:16	57.5	Backup due to the loss of a major generating unit
2/6/2016 11:38	2/7/2016 5:59	18.3	Backup due to the loss of a major generating unit
2/7/2016 12:27	2/9/2016 23:01	58.6	Backup due to the loss of a major generating unit
2/9/2016 23:52	2/10/2016 21:49	22.0	Backup due to the loss of a major generating unit
2/11/2016 0:58	2/12/2016 11:09	34.2	Backup due to the loss of a major generating unit
2/12/2016 13:15	2/12/2016 15:13	2.0	Backup due to the loss of a major generating unit
2/13/2016 15:53	2/13/2016 21:00	5.1	Backup due to the loss of a major generating unit
2/14/2016 9:38	2/14/2016 10:37	1.0	Backup due to the loss of a major generating unit
2/15/2016 6:27	2/15/2016 22:43	16.3	Backup due to the loss of a major generating unit
2/16/2016 6:03	2/16/2016 13:37	7.6	Backup due to the loss of a major generating unit

2016

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
2/16/2016 15:52	2/16/2016 20:08	4.3	Backup due to the loss of a major generating unit
2/19/2016 15:56	2/19/2016 20:56	5.0	Backup due to the loss of a major generating unit
2/20/2016 8:12	2/20/2016 9:58	1.8	Backup due to the loss of a major generating unit
2/21/2016 9:40	2/21/2016 12:15	2.6	Backup due to the loss of a major generating unit
2/23/2016 7:11	2/23/2016 8:44	1.5	Backup due to the loss of a major generating unit
2/23/2016 17:53	2/23/2016 22:28	4.6	Backup due to the loss of a major generating unit
2/24/2016 5:50	2/26/2016 9:20	51.5	Backup due to the loss of a major generating unit
2/29/2016 6:19	2/29/2016 9:04	2.8	Support of spinning reserve
3/4/2016 6:43	3/4/2016 10:59	4.3	Support of spinning reserve
3/4/2016 18:00	3/4/2016 20:36	2.6	Support of spinning reserve
3/7/2016 6:55	3/7/2016 8:30	1.6	Support of spinning reserve
3/7/2016 18:54	3/7/2016 20:51	2.0	Support of spinning reserve
3/9/2016 6:04	3/9/2016 8:58	2.9	Support of spinning reserve
3/12/2016 8:55	3/12/2016 11:30	2.6	Support of spinning reserve
3/13/2016 11:03	3/13/2016 12:31	1.5	Support of spinning reserve
3/20/2016 20:11	3/20/2016 21:29	1.3	Support of spinning reserve
3/23/2016 12:14	3/23/2016 14:34	2.3	Support of spinning reserve
3/23/2016 16:41	3/23/2016 21:48	5.1	Support of spinning reserve
3/24/2016 6:19	3/24/2016 9:18	3.0	Support of spinning reserve
3/24/2016 20:09	3/24/2016 22:50	2.7	Support of spinning reserve
3/25/2016 6:25	3/25/2016 11:28	5.1	Support of spinning reserve
3/26/2016 16:01	3/26/2016 19:17	3.3	Support of spinning reserve
4/5/2016 7:36	4/5/2016 9:32	1.9	Support of spinning reserve
4/6/2016 7:23	4/6/2016 10:26	3.0	Support of spinning reserve
4/7/2016 7:11	4/7/2016 8:52	1.7	Support of spinning reserve
4/18/2016 16:26	4/18/2016 20:22	3.9	Support of spinning reserve
4/20/2016 12:00	4/20/2016 22:07	10.1	Support of spinning reserve
4/22/2016 7:18	4/22/2016 13:57	6.7	Support of spinning reserve
4/22/2016 16:33	4/22/2016 19:11	2.6	Support of spinning reserve
4/26/2016 10:48	4/26/2016 12:37	1.8	Support of spinning reserve
5/6/2016 8:30	5/6/2016 9:46	1.3	Support of spinning reserve
5/13/2016 7:48	5/13/2016 11:06	3.3	Support of spinning reserve
5/26/2016 20:01	5/26/2016 21:55	1.9	Support of spinning reserve
5/28/2016 14:09	5/28/2016 21:53	7.7	Support of spinning reserve
6/8/2016 18:59	6/8/2016 23:29	4.5	Support of spinning reserve
6/9/2016 9:24	6/9/2016 14:44	5.3	Support of spinning reserve
6/18/2016 8:57	6/18/2016 13:08	4.2	Support of spinning reserve
7/6/2016 16:40	7/6/2016 18:52	2.2	Support of spinning reserve
7/7/2016 11:52	7/7/2016 12:52	1.0	Support of spinning reserve
7/8/2016 9:01	7/8/2016 10:34	1.5	Support of spinning reserve

2016

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
7/11/2016 11:58	7/11/2016 21:50	9.9	Support of spinning reserve
7/12/2016 14:21	7/12/2016 14:25	0.1	Testing
7/12/2016 16:20	7/12/2016 22:00	5.7	Support of spinning reserve
7/13/2016 8:10	7/13/2016 15:22	7.2	Support of spinning reserve
8/30/2016 14:11	8/30/2016 15:29	1.3	Testing
8/30/2016 18:02	8/30/2016 18:10	0.1	Testing
8/31/2016 12:58	8/31/2016 13:01	0.0	Testing
8/31/2016 13:56	8/31/2016 13:58	0.0	Testing
8/31/2016 16:06	8/31/2016 16:09	0.1	Testing
9/1/2016 11:01	9/1/2016 11:23	0.4	Testing
9/10/2016 7:09	9/10/2016 19:52	12.7	Planned Avalon Peninsula transmission outages
9/24/2016 19:26	9/24/2016 21:21	1.9	Planned Avalon Peninsula transmission outages
9/25/2016 10:00	9/25/2016 13:04	3.1	Planned Avalon Peninsula transmission outages
9/25/2016 19:24	9/25/2016 21:50	2.4	Planned Avalon Peninsula transmission outages
9/26/2016 16:37	9/26/2016 17:00	0.4	Testing
9/27/2016 11:01	9/27/2016 11:11	0.2	Testing
9/27/2016 12:39	9/27/2016 12:47	0.1	Testing
10/3/2016 19:05	10/3/2016 21:15	2.2	Support of spinning reserve
10/4/2016 7:08	10/4/2016 9:01	1.9	Support of spinning reserve
10/11/2016 9:25	10/11/2016 9:29	0.1	Testing
10/11/2016 22:14	10/11/2016 22:17	0.0	Testing
10/12/2016 14:32	10/12/2016 14:39	0.1	Testing
10/16/2016 19:20	10/16/2016 20:45	1.4	Support of spinning reserve
10/22/2016 14:24	10/22/2016 14:28	0.1	Testing
10/22/2016 17:02	10/22/2016 17:06	0.1	Testing
10/26/2016 14:03	10/26/2016 14:07	0.1	Testing
10/26/2016 21:16	10/26/2016 21:18	0.0	Testing
10/28/2016 7:22	10/28/2016 11:01	3.7	Support of spinning reserve
11/4/2016 11:32	11/4/2016 11:38	0.1	Testing
11/7/2016 7:16	11/7/2016 8:26	1.2	Support of spinning reserve
11/9/2016 7:14	11/9/2016 18:09	10.9	Support of spinning reserve
11/10/2016 16:38	11/10/2016 18:08	1.5	Support of spinning reserve
11/22/2016 17:22	11/22/2016 17:28	0.1	Testing
11/24/2016 17:17	11/24/2016 17:37	0.3	Testing
12/1/2016 17:13	12/1/2016 17:57	0.7	Testing
12/2/2016 10:30	12/2/2016 11:08	0.6	Testing
12/2/2016 16:50	12/2/2016 17:29	0.7	Testing
12/5/2016 9:10	12/5/2016 9:24	0.2	Testing
12/5/2016 10:30	12/5/2016 12:07	1.6	Testing
12/5/2016 16:31	12/5/2016 17:01	0.5	Testing

2016

Hardwoods Gas Turbine Start Time	Hardwoods Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
12/6/2016 9:16	12/6/2016 18:08	8.9	Testing
12/7/2016 16:54	12/7/2016 19:05	2.2	Testing
12/8/2016 7:00	12/8/2016 18:49	11.8	Backup due to the loss of a major generating unit
12/12/2016 16:17	12/12/2016 17:47	1.5	Support of spinning reserve
12/12/2016 19:12	12/12/2016 19:43	0.5	Testing
12/14/2016 7:34	12/14/2016 10:16	2.7	Support of spinning reserve
12/14/2016 16:35	12/14/2016 19:30	2.9	Support of spinning reserve
12/16/2016 16:30	12/16/2016 21:36	5.1	Support of spinning reserve
12/17/2016 17:04	12/17/2016 22:41	5.6	Support of spinning reserve
12/26/2016 16:36	12/26/2016 17:23	0.8	Support of spinning reserve
12/27/2016 13:06	12/27/2016 18:46	5.7	Support of spinning reserve

2016

Stephenville Gas Turbine Start Time	Stephenville Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
1/8/2016 17:03	1/8/2016 18:06	1.0	Support of spinning reserve
1/9/2016 16:39	1/9/2016 18:12	1.5	Support of spinning reserve
1/10/2016 13:47	1/10/2016 13:52	0.1	Testing
1/11/2016 22:16	1/11/2016 22:22	0.1	Testing
1/13/2016 11:40	1/13/2016 20:14	8.6	Backup due to the loss of a major generating unit
1/26/2016 6:47	1/26/2016 10:26	3.7	Backup due to the loss of a major generating unit
2/2/2016 8:10	2/2/2016 16:59	8.8	Backup due to the loss of a major generating unit
2/3/2016 5:29	2/3/2016 18:02	12.5	Backup due to the loss of a major generating unit
2/4/2016 7:52	2/4/2016 18:16	10.4	Backup due to the loss of a major generating unit
2/5/2016 8:16	2/5/2016 16:07	7.8	Backup due to the loss of a major generating unit
2/6/2016 8:36	2/6/2016 16:17	7.7	Backup due to the loss of a major generating unit
2/7/2016 13:35	2/12/2016 0:49	107.2	Backup due to the loss of a major generating unit
2/12/2016 1:27	2/12/2016 15:19	13.9	Backup due to the loss of a major generating unit
2/13/2016 16:55	2/13/2016 20:39	3.7	Backup due to the loss of a major generating unit
2/15/2016 5:55	2/15/2016 21:22	15.4	Backup due to the loss of a major generating unit
2/16/2016 5:45	2/16/2016 18:17	12.5	Backup due to the loss of a major generating unit
2/24/2016 6:50	2/24/2016 14:10	7.3	Backup due to the loss of a major generating unit
3/4/2016 9:44	3/4/2016 10:02	0.3	Testing
3/10/2016 11:18	3/10/2016 11:20	0.0	Testing
3/26/2016 15:12	3/26/2016 19:19	4.1	Support of spinning reserve
5/28/2016 14:07	5/28/2016 21:29	7.4	Support of spinning reserve
7/29/2016 16:22	7/29/2016 21:28	5.1	Testing
7/30/2016 8:54	7/30/2016 11:48	2.9	Testing
8/18/2016 20:13	8/18/2016 20:35	0.4	Testing
8/19/2016 6:10	8/19/2016 6:33	0.4	Testing
8/19/2016 7:25	8/19/2016 7:49	0.4	Testing
9/23/2016 14:07	9/23/2016 15:44	1.6	Testing
9/26/2016 13:53	9/26/2016 19:44	5.9	Planned transmission outages off Avalon
9/27/2016 7:15	9/27/2016 20:59	13.7	Planned transmission outages off Avalon
9/28/2016 7:16	9/28/2016 20:45	13.5	Planned transmission outages off Avalon
9/29/2016 7:14	9/29/2016 16:53	9.7	Planned transmission outages off Avalon
10/13/2016 13:18	10/13/2016 19:28	6.2	Planned generation outages
12/2/2016 18:56	12/2/2016 18:58	0.0	Testing
12/3/2016 7:49	12/3/2016 8:14	0.4	Testing
12/3/2016 10:48	12/3/2016 11:05	0.3	Testing
12/8/2016 9:08	12/8/2016 9:17	0.1	Testing
12/8/2016 12:50	12/8/2016 13:11	0.4	Testing
12/9/2016 14:24	12/9/2016 17:32	3.1	Testing
12/10/2016 10:07	12/10/2016 11:08	1.0	Testing
12/10/2016 14:20	12/10/2016 19:58	5.6	Testing

2016

Stephenville Gas Turbine Start Time	Stephenville Gas Turbine Stop Time	Operation Time (Hours)	Reason for Operation
12/14/2016 7:20	12/14/2016 9:44	2.4	Support of spinning reserve
12/15/2016 11:44	12/15/2016 13:01	1.3	Testing
12/17/2016 16:45	12/17/2016 18:32	1.8	Support of spinning reserve
12/21/2016 14:26	12/21/2016 15:35	1.1	Testing
12/23/2016 8:20	12/23/2016 8:42	0.4	Testing
12/27/2016 16:49	12/27/2016 18:10	1.4	Support of spinning reserve

2016

St. Anthony Diesel Plant Start Time	St. Anthony Diesel Plant End Time	Operation Time (Hours)	Reason for Operation
1/13/2016 9:10	1/13/2016 11:46	2.6	Testing
1/15/2016 11:00	1/15/2016 11:38	0.6	Testing
1/29/2016 13:14	1/29/2016 15:13	2.0	Testing
2/3/2016 5:13	2/3/2016 9:15	4.0	Backup due to the loss of a major generating unit
2/24/2016 10:35	2/24/2016 10:46	0.2	Testing
3/4/2016 11:12	3/4/2016 13:20	2.1	Testing
3/14/2016 15:33	3/14/2016 15:36	0.0	Testing
3/15/2016 11:45	3/15/2016 11:50	0.1	Testing
3/16/2016 8:06	3/16/2016 15:53	7.8	Planned transmission outages off Avalon
3/17/2016 5:46	3/17/2016 22:12	16.4	Planned transmission outages off Avalon
3/22/2016 22:13	3/25/2016 20:00	69.8	Backup due to the loss of area transmission line
3/28/2016 18:06	3/28/2016 19:44	1.6	Planned transmission outages off Avalon
3/28/2016 19:57	3/28/2016 21:13	1.3	Planned transmission outages off Avalon
5/5/2016 13:01	5/5/2016 14:30	1.5	Testing
5/26/2016 12:59	5/26/2016 13:29	0.5	Testing
7/29/2016 6:08	7/29/2016 6:58	0.8	Backup due to the loss of area transmission line
7/29/2016 7:27	7/29/2016 10:09	2.7	Backup due to the loss of area transmission line
7/29/2016 10:14	7/29/2016 12:48	2.6	Backup due to the loss of area transmission line
8/2/2016 13:04	8/2/2016 13:12	0.1	Testing
8/2/2016 13:21	8/2/2016 13:27	0.1	Testing
9/6/2016 13:59	9/6/2016 15:42	1.7	Testing
8/22/2016 11:05	8/22/2016 12:55	1.8	Testing
8/30/2016 15:05	8/30/2016 15:26	0.4	Testing
9/2/2016 13:55	9/2/2016 14:32	0.6	Testing
9/7/2016 13:25	9/7/2016 13:49	0.4	Planned transmission outages off Avalon
9/11/2016 6:28	9/11/2016 6:42	0.2	Planned transmission outages off Avalon
9/11/2016 6:48	9/11/2016 16:36	9.8	Planned transmission outages off Avalon
10/7/2016 9:22	10/7/2016 13:51	4.5	Testing
10/15/2016 15:51	10/15/2016 17:02	1.2	Testing
10/16/2016 6:21	10/16/2016 13:00	6.7	Planned transmission outages off Avalon
10/17/2016 9:37	10/17/2016 10:24	0.8	Testing
10/18/2016 15:24	10/18/2016 15:27		Testing
10/24/2016 14:01	10/24/2016 14:15		Testing
11/17/2016 13:19	11/17/2016 14:37	1.3	Planned transmission outages off Avalon
11/24/2016 9:46	11/24/2016 14:31	4.7	Planned transmission outages off Avalon
11/27/2016 22:53	11/27/2016 23:24	0.5	Backup due to the loss of area transmission line
11/27/2016 23:39	11/28/2016 18:26	18.8	Backup due to the loss of area transmission line

2016

<u>Hawkes Bay Diesel Plant</u>	<u>Hawkes Bay Diesel Plant</u>	<u>Operation Time</u>		<u>Reason for Operation</u>
<u>Start Time</u>	<u>Stop Time</u>	<u>(Hours)</u>		
1/12/2016 10:54	1/12/2016 11:29	0.6	Testing	
1/29/2016 10:10	1/29/2016 10:38	0.5	Testing	
2/3/2016 5:07	2/3/2016 9:02	3.9	Backup due to the loss of a major generating unit	
3/4/2016 12:33	3/4/2016 12:59	0.4	Testing	
3/22/2016 23:56	3/24/2016 18:26	42.5	Backup due to the loss of area transmission line	
3/25/2016 7:50	3/25/2016 8:21	0.5	Backup due to the loss of area transmission line	
3/25/2016 17:19	3/25/2016 17:23	0.1	Testing	
3/25/2016 17:41	3/25/2016 17:48	0.1	Testing	
3/26/2016 0:15	3/26/2016 12:59	12.7	Backup due to the loss of area transmission line	
3/27/2016 7:22	3/28/2016 1:05	17.7	Backup due to the loss of area transmission line	
3/28/2016 16:09	3/28/2016 16:11	0.0	Testing	
5/12/2016 9:17	5/12/2016 9:37	0.3	Planned transmission outages off Avalon	
7/25/2016 11:56	7/25/2016 12:06	0.2	Testing	
8/8/2016 9:21	8/8/2016 13:54	4.6	Backup due to the loss of area transmission line	
9/6/2016 13:24	9/7/2016 13:57	24.6	Planned transmission outages off Avalon	
10/20/2016 9:18	10/20/2016 9:30	0.2	Planned transmission outages off Avalon	
10/20/2016 9:42	10/20/2016 10:17	0.6	Planned transmission outages off Avalon	
10/20/2016 14:08	10/20/2016 14:18	0.2	Testing	
10/20/2016 17:07	10/20/2016 17:25	0.3	Testing	
10/21/2016 11:39	10/21/2016 11:43	0.1	Testing	
10/21/2016 11:47	10/21/2016 11:55	0.1	Testing	
10/26/2016 13:52	10/26/2016 14:27	0.6	Testing	
10/26/2016 10:11	10/26/2016 10:19	0.1	Testing	
10/26/2016 11:06	10/26/2016 11:13	0.1	Testing	
10/26/2016 11:21	10/26/2016 11:46	0.4	Testing	
10/26/2016 12:55	10/26/2016 13:19	0.4	Testing	
10/28/2016 9:15	10/28/2016 9:21	0.1	Testing	
10/28/2016 13:31	10/28/2016 13:32	0.0	Testing	
10/28/2016 13:35	10/28/2016 13:36	0.0	Testing	
11/1/2016 14:35	11/1/2016 14:56	0.3	Testing	
11/2/2016 11:39	11/2/2016 11:58	0.3	Testing	
11/2/2016 12:58	11/2/2016 13:49	0.8	Testing	
11/2/2016 15:15	11/2/2016 15:35	0.3	Testing	
11/2/2016 15:57	11/2/2016 15:59	0.0	Testing	
11/3/2016 8:33	11/3/2016 9:23	0.8	Testing	
11/8/2016 10:28	11/8/2016 11:04	0.6	Testing	
11/22/2016 14:40	11/22/2016 14:41	0.0	Testing	
11/22/2016 15:58	11/22/2016 16:01	0.0	Testing	
11/27/2016 23:12	11/28/2016 18:07	18.9	Backup due to the loss of area transmission line	
11/30/2016 9:43	11/30/2016 10:03	0.3	Planned transmission outages off Avalon	
11/30/2016 12:29	11/30/2016 16:52	4.4	Planned transmission outages off Avalon	

		2016											
Line No.	Unit	January	February	March	April	May	June	July	August	September	October	November	December
1	Holyrood GT												
2	Energy (kWh) ¹	40,585,000	40,145,000	5,543,000	6,801,000	664,000	47,000	-	-	3,403,000	915,000	1,431,000	13,372,000
3	Fuel Consumption (L)	14,372,884	14,043,370	2,121,413	2,585,302	285,509	31,006	125	(4,623)	1,408,437	378,739	594,866	4,650,062
4	Cost (\$)	8,146,933	7,911,127	1,188,424	1,478,796	157,093	17,093	70	(2,581)	789,573	212,322	343,629	3,080,556
5	Hardwoods GT												
6	Energy ¹	3,240,000	7,848,000	432,000	504,000	72,000	144,000	144,000	-	72,000	72,000	72,000	648,000
7	Fuel Consumption (Gal)	353,306	679,713	51,807	52,682	16,498	13,198	20,858	2,488	7,366	7,187	6,475	72,774
8	Cost (\$)	1,004,612	1,738,906	130,796	133,251	41,728	33,383	52,757	6,292	18,631	18,178	16,378	191,158
9	Stephenville GT												
10	Energy ¹	110,160	4,713,880	21,114	-	36,742	-	61,960	9,706	238,417	42,934	-	209,876
11	Fuel Consumption (Gal)	12,504	426,045	14,054	(10,945)	2,911	103	(244)	11,843	27,482	12,581	733	21,002
12	Cost (\$)	46,964	1,371,543	45,498	(35,456)	9,362	331	(785)	38,092	88,391	40,466	2,356	68,247
13	St. Anthony Diesel												
14	Energy ¹	20,863	21,377	386,150	1,166	1,253	965	13,149	3,632	74,072	55,684	104,661	-
15	Fuel Consumption (L)	7,886	7,023	125,357	304	25	25	5,726	1,182	24,010	16,704	32,035	(185)
16	Cost (\$)	5,651	4,913	77,863	196	258	73	3,556	734	14,909	10,285	20,902	(134)
17	Hawkes Bay Diesel												
18	Energy ¹	4,290	18,834	290,369	233	561	-	1,323	11,230	1,372	7,177	67,057	14,854
19	Fuel Consumption (L)	1,442	5,134	79,263	172	-	-	188	3,125	5,280	3,880	18,133	3,988
20	Cost (\$)	1,231	4,383	53,313	120	2,293	609	127	2,103	3,553	14,594	12,237	2,755

¹ Gross Generation.

2017

<u>Holyrood Gas Turbine</u> <u>Start Time</u>	<u>Holyrood Gas Turbine</u> <u>Stop Time</u>	<u>Operation Time</u> <u>(Hours)</u>	<u>Reason for Operation</u>
1/3/2017 15:47	1/3/2017 20:07	4.3	Support of spinning reserve
1/4/2017 19:51	1/5/2017 19:27	23.6	Planned generation outages
1/9/2017 16:39	1/9/2017 21:43	5.1	Support of spinning reserve
1/10/2017 6:05	1/10/2017 22:21	16.3	Support of spinning reserve
1/11/2017 6:14	1/11/2017 10:45	4.5	Support of spinning reserve
1/14/2017 7:44	1/14/2017 23:12	15.5	Support of spinning reserve
1/15/2017 17:12	1/15/2017 19:33	2.3	Support of spinning reserve
1/16/2017 6:39	1/16/2017 22:52	16.2	Support of spinning reserve
1/23/2017 6:29	1/23/2017 22:57	16.5	Support of spinning reserve
1/24/2017 6:32	1/24/2017 11:34	5.0	Support of spinning reserve
1/26/2017 18:51	1/27/2017 22:07	27.3	Planned generation outages
2/1/2017 7:09	2/1/2017 11:18	4.1	Support of spinning reserve
2/4/2017 7:38	2/5/2017 0:06	16.5	Support of spinning reserve
2/5/2017 6:08	2/5/2017 23:52	17.7	Support of spinning reserve
2/6/2017 7:00	2/6/2017 13:10	6.2	Support of spinning reserve
2/6/2017 17:25	2/6/2017 22:10	4.7	Support of spinning reserve
2/7/2017 5:44	2/8/2017 0:31	18.8	Support of spinning reserve
2/8/2017 5:43	2/8/2017 21:20	15.6	Support of spinning reserve
2/11/2017 17:43	2/11/2017 17:55	0.2	Support of spinning reserve
2/12/2017 15:50	2/12/2017 21:51	6.0	Support of spinning reserve
2/13/2017 5:58	2/13/2017 9:21	3.4	Support of spinning reserve
2/17/2017 10:20	2/17/2017 11:37	1.3	Testing
2/18/2017 19:47	2/20/2017 4:43	32.9	Planned generation outages
2/24/2017 18:57	2/25/2017 0:37	5.7	Planned generation outages
2/26/2017 6:38	2/27/2017 1:17	18.7	Planned generation outages
3/1/2017 6:39	3/1/2017 9:07	2.5	Support of spinning reserve
3/4/2017 16:18	3/4/2017 22:26	6.1	Backup due to the loss of a major generating unit
3/5/2017 8:26	3/5/2017 21:15	12.8	Backup due to the loss of a major generating unit
3/6/2017 17:17	3/6/2017 20:35	3.3	Backup due to the loss of a major generating unit
3/7/2017 7:34	3/7/2017 10:33	3.0	Backup due to the loss of a major generating unit
3/8/2017 10:50	3/9/2017 16:58	30.1	Backup due to the loss of a major generating unit
3/11/2017 11:01	3/11/2017 15:54	4.9	Support of spinning reserve
3/11/2017 17:11	3/13/2017 21:57	52.8	Backup due to the loss of a major generating unit
3/14/2017 5:43	3/14/2017 9:27	3.7	Support of spinning reserve
3/24/2017 6:24	3/24/2017 22:40	16.3	Support of spinning reserve
3/25/2017 8:33	3/25/2017 12:15	3.7	Support of spinning reserve
3/26/2017 5:46	3/27/2017 0:02	18.3	Support of spinning reserve
3/27/2017 5:43	3/27/2017 22:48	17.1	Support of spinning reserve
3/28/2017 5:45	3/28/2017 10:59	5.2	Support of spinning reserve
4/18/2017 5:52	4/18/2017 23:07	17.3	Support of spinning reserve
4/19/2017 5:41	4/19/2017 22:21	16.7	Support of spinning reserve
4/20/2017 5:45	4/20/2017 11:49	6.1	Support of spinning reserve
4/21/2017 6:49	4/21/2017 15:21	8.5	Support of spinning reserve
4/26/2017 6:40	4/26/2017 9:46	3.1	Support of spinning reserve
5/1/2017 9:34	5/1/2017 13:48	4.2	Backup due to the loss of a major generating unit
5/1/2017 19:26	5/3/2017 12:51	41.4	Backup due to the loss of a major generating unit
6/15/2017 10:05	6/15/2017 13:50	3.8	Planned Avalon Peninsula transmission outages
6/21/2017 14:05	6/21/2017 16:16	2.2	Testing
7/30/2017 10:55	7/30/2017 23:34	12.7	Planned generation outages
7/31/2017 8:27	7/31/2017 22:16	13.8	Planned generation outages
8/1/2017 10:07	8/1/2017 20:07	10.0	Planned generation outages
8/2/2017 10:50	8/2/2017 18:44	7.9	Planned generation outages
8/3/2017 10:15	8/3/2017 22:06	11.8	Planned generation outages
8/4/2017 9:52	8/4/2017 19:23	9.5	Planned generation outages
8/5/2017 10:21	8/5/2017 18:40	8.3	Planned generation outages
8/6/2017 10:17	8/6/2017 21:39	11.4	Planned generation outages
8/7/2017 9:18	8/7/2017 22:09	12.9	Planned generation outages
8/8/2017 10:18	8/8/2017 22:02	11.7	Planned generation outages

2017

<u>Holyrood Gas Turbine</u> <u>Start Time</u>	<u>Holyrood Gas Turbine</u> <u>Stop Time</u>	<u>Operation Time</u> <u>(Hours)</u>	<u>Reason for Operation</u>
8/9/2017 10:05	8/9/2017 22:03	12.0	Planned generation outages
8/10/2017 10:12	8/10/2017 22:05	11.9	Planned generation outages
8/11/2017 9:19	8/11/2017 22:19	13.0	Planned generation outages
8/12/2017 10:09	8/12/2017 21:58	11.8	Planned generation outages
8/13/2017 11:16	8/13/2017 22:33	11.3	Planned generation outages
8/14/2017 8:54	8/14/2017 22:18	13.4	Planned generation outages
8/15/2017 9:22	8/15/2017 21:39	12.3	Planned generation outages
8/16/2017 9:13	8/16/2017 22:50	13.6	Planned generation outages
8/17/2017 10:03	8/17/2017 21:31	11.5	Planned generation outages
8/18/2017 9:53	8/18/2017 22:21	12.5	Planned generation outages
8/19/2017 10:39	8/19/2017 18:23	7.7	Planned generation outages
8/22/2017 13:01	8/22/2017 21:51	8.8	Support of spinning reserve
8/23/2017 16:18	8/23/2017 17:57	1.6	Support of spinning reserve
10/6/2017 5:55	10/6/2017 21:32	15.6	Planned Avalon Peninsula transmission outages
10/7/2017 6:41	10/7/2017 22:20	15.7	Planned Avalon Peninsula transmission outages
10/8/2017 7:45	10/8/2017 21:24	13.7	Planned Avalon Peninsula transmission outages
10/9/2017 10:00	10/9/2017 21:03	11.1	Planned Avalon Peninsula transmission outages
10/10/2017 7:13	10/10/2017 22:37	15.4	Planned Avalon Peninsula transmission outages
10/23/2017 9:11	10/23/2017 22:47	13.6	Planned Avalon Peninsula transmission outages
10/24/2017 6:57	10/24/2017 10:05	3.1	Planned Avalon Peninsula transmission outages
11/8/2017 6:13	11/8/2017 22:10	15.9	Support of spinning reserve
11/9/2017 5:36	11/9/2017 22:30	16.9	Support of spinning reserve
11/10/2017 5:35	11/10/2017 14:37	9.0	Support of spinning reserve
11/11/2017 16:51	11/11/2017 19:47	2.9	Support of spinning reserve
11/14/2017 5:52	11/14/2017 17:25	11.6	Support of spinning reserve
11/15/2017 13:35	11/15/2017 22:43	9.1	Support of spinning reserve
11/16/2017 6:44	11/16/2017 9:05	2.3	Support of spinning reserve
11/17/2017 6:32	11/17/2017 9:39	3.1	Support of spinning reserve
11/19/2017 16:37	11/19/2017 21:44	5.1	Support of spinning reserve
11/21/2017 6:16	11/21/2017 22:47	16.5	Support of spinning reserve
11/22/2017 5:34	11/22/2017 22:16	16.7	Support of spinning reserve
11/23/2017 5:34	11/23/2017 22:51	17.3	Support of spinning reserve
11/24/2017 5:41	11/24/2017 21:33	15.9	Support of spinning reserve
11/28/2017 15:44	11/28/2017 21:01	5.3	Support of spinning reserve
11/29/2017 5:33	11/29/2017 18:20	12.8	Support of spinning reserve
12/1/2017 5:44	12/1/2017 22:16	16.5	Support of spinning reserve
12/2/2017 8:54	12/2/2017 21:01	12.1	Support of spinning reserve
12/3/2017 7:57	12/3/2017 22:51	14.9	Support of spinning reserve
12/4/2017 5:47	12/4/2017 21:53	16.1	Support of spinning reserve
12/5/2017 16:11	12/5/2017 21:24	5.2	Support of spinning reserve
12/6/2017 7:01	12/6/2017 8:45	1.7	Support of spinning reserve
12/18/2017 17:18	12/18/2017 21:09	3.8	Support of spinning reserve
12/19/2017 6:28	12/19/2017 18:18	11.8	Support of spinning reserve
12/21/2017 16:36	12/21/2017 18:25	1.8	Support of spinning reserve
12/22/2017 17:00	12/22/2017 18:52	1.9	Support of spinning reserve
12/26/2017 16:08	12/26/2017 21:53	5.8	Support of spinning reserve
12/27/2017 8:25	12/28/2017 22:40	38.3	Support of spinning reserve
12/29/2017 7:53	12/29/2017 22:17	14.4	Support of spinning reserve
12/31/2017 7:00	12/31/2017 19:30	12.5	Support of spinning reserve

2017

<u>Hardwoods Gas Turbine</u>	<u>Hardwoods Gas Turbine</u>	<u>Operation</u>	
<u>Start Time</u>	<u>Stop Time</u>	<u>Time (Hours)</u>	<u>Reason for Operation</u>
1/4/2017 16:44	1/4/2017 18:53	2.2	Support of spinning reserve
1/7/2017 16:46	1/7/2017 19:02	2.3	Support of spinning reserve
1/10/2017 8:23	1/10/2017 8:51	0.5	Support of spinning reserve
1/13/2017 17:09	1/13/2017 17:39	0.5	Testing
1/14/2017 16:04	1/14/2017 20:01	3.9	Support of spinning reserve
1/15/2017 9:08	1/15/2017 12:47	3.6	Support of spinning reserve
1/16/2017 17:07	1/16/2017 18:07	1.0	Support of spinning reserve
1/17/2017 6:49	1/17/2017 9:16	2.4	Support of spinning reserve
1/19/2017 8:01	1/19/2017 9:12	1.2	Support of spinning reserve
1/21/2017 17:28	1/21/2017 19:06	1.6	Support of spinning reserve
1/22/2017 17:04	1/22/2017 18:29	1.4	Support of spinning reserve
1/24/2017 7:17	1/24/2017 8:52	1.6	Support of spinning reserve
1/24/2017 17:24	1/24/2017 18:55	1.5	Support of spinning reserve
1/25/2017 7:09	1/25/2017 10:00	2.8	Support of spinning reserve
2/1/2017 16:53	2/1/2017 20:45	3.9	Support of spinning reserve
2/2/2017 6:55	2/2/2017 9:26	2.5	Support of spinning reserve
2/2/2017 16:32	2/2/2017 20:57	4.4	Support of spinning reserve
2/3/2017 6:51	2/3/2017 10:22	3.5	Support of spinning reserve
2/3/2017 17:23	2/3/2017 19:19	1.9	Support of spinning reserve
2/4/2017 6:45	2/4/2017 7:46	1.0	Support of spinning reserve
2/5/2017 8:22	2/5/2017 12:48	4.4	Support of spinning reserve
2/5/2017 15:45	2/6/2017 0:17	8.5	Support of spinning reserve
2/6/2017 6:41	2/6/2017 7:18	0.6	Support of spinning reserve
2/6/2017 13:19	2/6/2017 14:25	1.1	Support of spinning reserve
2/11/2017 14:42	2/11/2017 15:18	0.6	Support of spinning reserve
2/19/2017 11:01	2/19/2017 12:38	1.6	Testing
2/23/2017 7:05	2/23/2017 8:38	1.5	Support of spinning reserve
3/1/2017 8:29	3/1/2017 9:57	1.5	Support of spinning reserve
3/4/2017 17:37	3/4/2017 20:28	2.9	Support of spinning reserve
3/5/2017 7:46	3/5/2017 10:43	3.0	Support of spinning reserve
3/7/2017 7:09	3/7/2017 7:45	0.6	Support of spinning reserve
3/12/2017 11:55	3/12/2017 23:42	11.8	Support of spinning reserve
3/15/2017 8:56	3/15/2017 12:57	4.0	Support of spinning reserve
3/20/2017 13:38	3/20/2017 16:37	3.0	Testing
3/25/2017 6:40	3/25/2017 8:45	2.1	Support of spinning reserve
3/27/2017 6:29	3/27/2017 14:53	8.4	Support of spinning reserve
3/28/2017 7:19	3/28/2017 8:26	1.1	Support of spinning reserve
3/29/2017 7:07	3/29/2017 9:26	2.3	Support of spinning reserve
3/30/2017 10:47	3/30/2017 13:22	2.6	Support of spinning reserve
3/31/2017 16:09	3/31/2017 20:28	4.3	Support of spinning reserve
4/13/2017 7:49	4/13/2017 10:30	2.7	Support of spinning reserve
4/15/2017 8:10	4/15/2017 12:06	3.9	Support of spinning reserve
4/17/2017 8:43	4/17/2017 14:48	6.1	Support of spinning reserve
4/18/2017 7:11	4/18/2017 12:58	5.8	Support of spinning reserve

4/19/2017 7:34	4/19/2017 9:37	2.0 Support of spinning reserve
4/20/2017 12:07	4/20/2017 14:07	2.0 Support of spinning reserve
4/20/2017 15:48	4/20/2017 22:03	6.2 Support of spinning reserve
4/21/2017 15:10	4/21/2017 22:01	6.8 Support of spinning reserve
4/22/2017 8:39	4/22/2017 13:17	4.6 Support of spinning reserve
5/1/2017 7:21	5/1/2017 10:35	3.2 Support of spinning reserve
5/1/2017 14:06	5/1/2017 22:42	8.6 Support of spinning reserve
5/2/2017 6:16	5/2/2017 8:52	2.6 Support of spinning reserve
5/3/2017 6:39	5/3/2017 7:08	0.5 Support of spinning reserve
5/17/2017 10:20	5/17/2017 12:59	2.7 Planned transmission outages
5/21/2017 9:49	5/21/2017 13:40	3.8 Support of spinning reserve
5/22/2017 9:41	5/22/2017 14:01	4.3 Support of spinning reserve
5/22/2017 16:22	5/22/2017 21:33	5.2 Support of spinning reserve
5/24/2017 10:27	5/24/2017 12:56	2.5 Planned transmission outages
5/25/2017 7:32	5/25/2017 10:26	2.9 Support of spinning reserve
5/26/2017 7:15	5/26/2017 9:26	2.2 Support of spinning reserve
5/29/2017 7:34	5/29/2017 8:46	1.2 Planned transmission outages
6/3/2017 17:18	6/3/2017 22:19	5.0 Support of spinning reserve
6/5/2017 19:03	6/5/2017 22:06	3.0 Support of spinning reserve
6/6/2017 6:54	6/6/2017 12:59	6.1 Support of spinning reserve
6/7/2017 7:14	6/7/2017 9:21	2.1 Support of spinning reserve
6/8/2017 7:25	6/8/2017 9:40	2.3 Support of spinning reserve
7/25/2017 10:28	7/25/2017 10:47	0.3 Testing
7/30/2017 10:09	7/30/2017 11:06	0.9 Support of spinning reserve
8/11/2017 13:31	8/11/2017 13:42	0.2 Testing
8/17/2017 11:26	8/17/2017 11:36	0.2 Testing
8/17/2017 13:16	8/17/2017 13:33	0.3 Testing
8/25/2017 9:44	8/25/2017 13:55	4.2 Support of spinning reserve
8/26/2017 13:06	8/26/2017 13:28	0.4 Testing
8/26/2017 15:00	8/26/2017 15:09	0.1 Testing
8/26/2017 15:00	8/26/2017 15:09	0.1 Testing
8/27/2017 8:55	8/27/2017 9:24	0.5 Testing
8/27/2017 12:02	8/27/2017 13:46	1.7 Support of spinning reserve
9/21/2017 16:44	9/21/2017 18:30	1.8 Testing
9/22/2017 8:40	9/22/2017 9:02	0.4 Testing
9/22/2017 9:32	9/22/2017 9:46	0.2 Testing
10/22/2017 16:23	10/22/2017 21:52	5.5 Planned transmission outage
10/23/2017 6:38	10/23/2017 9:53	3.3 Planned transmission outage
10/31/2017 7:10	10/31/2017 11:16	4.1 Support of spinning reserve
10/31/2017 16:26	10/31/2017 18:47	2.3 Support of spinning reserve
11/8/2017 17:00	11/8/2017 18:14	1.2 Support of spinning reserve
11/9/2017 16:01	11/9/2017 18:26	2.4 Support of spinning reserve
11/11/2017 16:21	11/11/2017 17:24	1.0 Support of spinning reserve
11/20/2017 15:58	11/20/2017 16:09	0.2 Testing
11/20/2017 17:30	11/20/2017 18:16	0.8 Testing
11/21/2017 12:35	11/21/2017 13:18	0.7 Testing
11/21/2017 16:10	11/21/2017 19:47	3.6 Support of spinning reserve
11/22/2017 7:18	11/22/2017 8:58	1.7 Support of spinning reserve
11/24/2017 16:28	11/24/2017 17:25	0.9 Support of spinning reserve

12/1/2017 6:55	12/1/2017 12:07	5.2 Support of spinning reserve
12/1/2017 16:27	12/1/2017 19:09	2.7 Support of spinning reserve
12/2/2017 7:16	12/2/2017 10:13	3.0 Support of spinning reserve
12/2/2017 12:48	12/2/2017 12:55	0.1 Testing
12/2/2017 16:34	12/2/2017 18:22	1.8 Support of spinning reserve
12/3/2017 16:00	12/3/2017 19:48	3.8 Support of spinning reserve
12/5/2017 16:14	12/5/2017 17:33	1.3 Support of spinning reserve
12/7/2017 15:40	12/7/2017 16:15	0.6 Testing
12/17/2017 16:40	12/17/2017 18:28	1.8 Support of spinning reserve
12/18/2017 16:20	12/18/2017 17:46	1.4 Support of spinning reserve
12/21/2017 11:59	12/21/2017 12:28	0.5 Testing
12/21/2017 14:09	12/21/2017 14:46	0.6 Testing
12/21/2017 18:17	12/21/2017 18:21	0.1 Testing
12/22/2017 16:50	12/22/2017 17:28	0.6 Support of spinning reserve
12/23/2017 16:47	12/23/2017 17:59	1.2 Support of spinning reserve
12/27/2017 7:20	12/27/2017 22:32	15.2 Support of spinning reserve
12/28/2017 7:06	12/28/2017 19:13	12.1 Support of spinning reserve
12/28/2017 23:13	12/28/2017 23:20	0.1 Support of spinning reserve
12/29/2017 16:24	12/29/2017 19:57	3.6 Support of spinning reserve
12/30/2017 8:54	12/30/2017 13:18	4.4 Support of spinning reserve
12/30/2017 16:13	12/30/2017 20:32	4.3 Support of spinning reserve

2017

<u>Stephenville Gas Turbine</u>	<u>Stephenville Gas Turbine</u>	<u>Operation Time</u>
<u>Start Time</u>	<u>Stop Time</u>	<u>(Hours)</u> <u>Reason for Operation</u>
1/11/2017 16:19	1/11/2017 17:39	1.3 Support of spinning reserve
1/12/2017 9:29	1/12/2017 10:04	0.6 Testing
1/12/2017 11:44	1/12/2017 13:21	1.6 Testing
1/24/2017 9:30	1/24/2017 11:22	1.9 Testing
2/3/2017 11:08	2/3/2017 12:38	1.5 Testing
2/5/2017 17:43	2/5/2017 20:55	3.2 Support of spinning reserve
2/6/2017 14:38	2/6/2017 18:55	4.3 Support of spinning reserve
2/7/2017 6:47	2/7/2017 12:38	5.9 Support of spinning reserve
2/7/2017 15:12	2/7/2017 22:12	7.0 Support of spinning reserve
2/8/2017 6:31	2/8/2017 14:02	7.5 Support of spinning reserve
2/8/2017 15:51	2/8/2017 19:09	3.3 Support of spinning reserve
2/13/2017 9:39	2/13/2017 12:43	3.1 Support of spinning reserve
2/13/2017 15:49	2/13/2017 20:59	5.2 Support of spinning reserve
2/14/2017 5:24	2/14/2017 20:27	15.0 Support of spinning reserve
3/11/2017 17:04	3/11/2017 23:53	6.8 Support of spinning reserve
3/12/2017 7:16	3/12/2017 18:12	10.9 Support of spinning reserve
3/17/2017 12:46	3/17/2017 13:11	0.4 Testing
3/27/2017 7:12	3/27/2017 9:17	2.1 Support of spinning reserve
4/26/2017 13:15	4/26/2017 13:33	0.3 Testing
5/15/2017 16:49	5/15/2017 17:52	1.0 Testing
5/16/2017 18:03	5/16/2017 18:43	0.7 Testing
5/17/2017 13:37	5/17/2017 14:19	0.7 Testing
6/21/2017 7:45	6/21/2017 8:06	0.4 Planned transmission outages
6/22/2017 18:16	6/22/2017 18:58	0.7 Testing
6/23/2017 8:03	6/23/2017 12:01	4.0 Planned transmission outages
9/7/2017 14:49	9/7/2017 15:31	0.7 Testing
11/11/2017 16:11	11/11/2017 17:16	1.1 Support of spinning reserve
11/13/2017 16:52	11/13/2017 23:17	6.4 Support of spinning reserve
11/14/2017 1:11	11/14/2017 1:13	- Testing
11/14/2017 7:30	11/14/2017 12:44	5.2 Support of spinning reserve
11/15/2017 16:20	11/15/2017 19:54	3.6 Support of spinning reserve
11/17/2017 16:25	11/17/2017 17:32	1.1 Support of spinning reserve
11/21/2017 11:26	11/21/2017 11:32	0.1 Testing
11/21/2017 16:36	11/21/2017 18:07	1.5 Support of spinning reserve
11/22/2017 13:49	11/22/2017 14:25	0.6 Testing
11/30/2017 15:04	11/30/2017 15:38	0.6 Testing
12/1/2017 7:23	12/1/2017 10:57	3.6 Support of spinning reserve
12/1/2017 16:33	12/1/2017 18:14	1.7 Support of spinning reserve
12/2/2017 6:56	12/2/2017 9:15	2.3 Support of spinning reserve
12/6/2017 16:37	12/6/2017 17:46	1.1 Support of spinning reserve
12/18/2017 16:30	12/18/2017 16:36	0.1 Support of spinning reserve
12/18/2017 17:20	12/18/2017 17:49	0.5 Support of spinning reserve
12/27/2017 9:11	12/27/2017 18:47	9.6 Support of spinning reserve

12/28/2017 10:36	12/28/2017 14:23	3.8 Testing
12/28/2017 16:27	12/28/2017 20:40	4.2 Support of spinning reserve
12/30/2017 16:32	12/30/2017 19:05	2.6 Support of spinning reserve

2017

<u>St. Anthony Diesel Plant</u>	<u>St. Anthony Diesel Plant Stop</u>	<u>Operation</u>
<u>Start Time</u>	<u>Time</u>	<u>Time (Hours) Reason for Operation</u>
1/16/2017 11:23	1/16/2017 13:11	1.8 Testing
1/24/2017 14:06	1/24/2017 14:27	0.3 Testing
2/4/2017 12:48	2/4/2017 13:57	1.2 Testing
2/4/2017 14:06	2/4/2017 14:13	0.1 Testing
2/4/2017 15:12	2/4/2017 15:22	0.2 Testing
2/7/2017 7:19	2/7/2017 8:56	1.6 Support of spinning reserve
2/7/2017 15:58	2/7/2017 20:22	4.4 Support of spinning reserve
2/8/2017 6:03	2/8/2017 10:40	4.6 Support of spinning reserve
2/13/2017 9:42	2/13/2017 12:31	2.8 Support of spinning reserve
2/13/2017 16:20	2/13/2017 21:41	5.3 Support of spinning reserve
2/21/2017 15:30	2/21/2017 15:46	0.3 Testing
2/22/2017 15:17	2/22/2017 15:30	0.2 Testing
2/22/2017 15:32	2/22/2017 15:59	0.5 Testing
3/12/2017 10:05	3/12/2017 18:23	8.3 Support of spinning reserve
5/1/2017 12:52	5/1/2017 15:00	2.1 Support of spinning reserve
5/1/2017 20:45	5/1/2017 21:00	0.2 Testing
6/23/2017 9:25	6/23/2017 11:30	2.1 Testing
7/5/2017 4:30	7/5/2017 11:55	7.4 Planned transmission outages
8/16/2017 8:34	8/16/2017 18:36	10.0 Planned transmission outages
8/30/2017 6:22	8/30/2017 13:58	7.6 Planned transmission outages
9/11/2017 12:47	9/11/2017 17:56	5.2 Planned transmission outages
11/23/2017 9:19	11/23/2017 14:44	5.4 Support of spinning reserve
11/24/2017 12:29	11/24/2017 13:58	1.5 Planned transmission outages
11/30/2017 9:08	11/30/2017 14:51	5.7 Planned transmission outages

2017

<u>Hawke's Bay Diesel Plant Start Time</u>	<u>Hawke's Bay Diesel Plant Stop Time</u>	<u>Operation Time (Hours)</u>	<u>Reason for Operation</u>
1/16/2017 8:59	1/16/2017 9:27	0.5	Testing
2/1/2017 14:51	2/1/2017 14:59	0.1	Testing
2/1/2017 15:02	2/1/2017 15:08	0.1	Testing
2/7/2017 7:26	2/7/2017 8:58	1.5	Support of spinning reserve
2/7/2017 16:05	2/7/2017 20:07	4.0	Support of spinning reserve
2/8/2017 5:56	2/8/2017 10:28	4.5	Support of spinning reserve
2/8/2017 16:45	2/8/2017 17:17	0.5	Support of spinning reserve
2/13/2017 8:45	2/13/2017 12:31	3.8	Support of spinning reserve
2/13/2017 16:19	2/13/2017 21:35	5.3	Support of spinning reserve
2/14/2017 10:45	2/14/2017 13:44	3.0	Support of spinning reserve
3/12/2017 12:01	3/12/2017 18:23	6.4	Support of spinning reserve
4/19/2017 10:37	4/19/2017 10:52	0.2	Testing
4/19/2017 15:18	4/19/2017 15:20	-	Testing
4/20/2017 10:45	4/20/2017 10:49	0.1	Testing
4/24/2017 17:22	4/24/2017 17:38	0.3	Testing
4/24/2017 18:07	4/24/2017 18:18	0.2	Testing
5/19/2017 15:24	5/19/2017 15:44	0.3	Testing
6/19/2017 13:46	6/19/2017 13:57	0.2	Testing
8/7/2017 13:43	8/7/2017 14:05	0.4	Testing
9/2/2017 10:10	9/2/2017 10:43	0.6	Testing
9/3/2017 8:33	9/3/2017 8:50	0.3	Testing
9/4/2017 17:56	9/4/2017 18:03	0.1	Testing
10/28/2017 14:13	10/28/2017 14:26	0.2	Testing
10/28/2017 14:45	10/28/2017 14:52	0.1	Testing
11/23/2017 9:17	11/23/2017 14:40	5.4	Support of spinning reserve
12/27/2017 16:36	12/27/2017 21:39	5.1	Support of spinning reserve

Line No.	Unit	2017											
		January	February	March	April	May	June	July	August	September	October	November	December
1	Holyrood GT												
2	Energy (kWh) ¹	7,248,000	10,377,000	9,525,000	2,889,000	2,735,000	341,000	1,545,000	9,236,000	-	3,899,000	6,926,000	10,059,000
3	Fuel Consumption (L)	2,786,173	3,680,376	3,633,492	1,102,155	2,073,547	103,209	38,691	4,355,580	-	1,550,837	3,201,944	3,232,048
4	Cost (\$)	1,981,173	2,574,505	2,492,177	757,890	691,925	70,502	26,096	2,847,953	-	978,161	2,234,334	2,530,242
5	Hardwoods GT												
6	Energy ¹	325,000	648,000	468,000	468,000	540,000	288,000	-	72,000	72,000	72,000	216,000	864,000
7	Fuel Consumption (Gal)	35,553	65,328	60,899	57,114	52,068	34,870	975	8,260	2,847	21,815	38,296	76,234
8	Cost (\$)	101,411	190,254	177,357	166,333	151,636	101,553	2,840	24,056	8,290	63,530	111,529	222,359
9	Stephenville GT												
10	Energy ¹	65,822	599,540	280,253	1,724	28,951	44,683	4	-	7,207	-	109,073	194,656
11	Fuel Consumption (Gal)	6,712	75,506	29,935	228	3,397	5,287	(80)	240	971	257	16,316	25,756
12	Cost (\$)	21,941	246,826	98,502	757	11,278	17,554	(265)	796	3,224	852	54,170	85,512
13	St. Anthony Diesel	3.27	3.27	3.29	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32	3.32
14	Energy ¹	5,578	101,141	28,216	-	7,555	11,066	51,341	96,680	33,489	-	56,477	2,914
15	Fuel Consumption (L)	1,906	30,618	8,412	158	2,242	4,193	15,735	28,406	10,081	-	16,593	1,367
16	Cost (\$)	1,274	21,040	5,791	(147)	1,544	2,888	10,838	19,108	6,938	(55)	11,399	939
17	Hawkes Bay Diesel												
18	Energy ¹	1,505	95,569	15,511	954	342	317	1	1,036	-	-	-	19,206
19	Fuel Consumption (L)	592	26,340	5,120	499	174	40	32	446	2,008	3,758	5,799	5,988
20	Cost (\$)	2,011	18,430	3,610	276	120	28	22	308	1,387	2,596	4,006	4,346

¹ Gross generation