

YUKON
ENERGY



YUKON ENERGY
CORPORATION

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Our File: 2/ 2703-05-04

May 10, 2013

Yukon Utilities Board
P.O. Box 31728
Whitehorse, YT
Y1A 6L3

Attention: Mr. Bruce McLennan, Chair

Re: YEC Outage Report – 2012

Please find attached the YEC outage reports for the 1st through 4th quarter of 2012. This information is provided pursuant to the filing requirements of the 1996/7 settlement agreement and corresponding Board Order.

If you have any questions regarding the content within this report please do not hesitate to contact the undersigned.

Yours truly,

A handwritten signature in blue ink, appearing to read 'Tom Debolt'.

Tom Debolt
Revenue and Financial Analyst
tom.debolt@yec.yk.ca
393-5348

Enclosure

CC via email : Dwight Redden, YECL
Wayne Tonsi, YECL



Outage / Disturbance Report YTD Q-1 January 2012

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration) HH:MM:SS	Comments
Jan 01/12	Dawson	1262	Adverse Weather (6c snow)	00:14:44	Heavy snow reported in the area. Lots of snow and ice built up on power lines.
Jan 01/12	MH0 52-F1 (L250)	23	Adverse Weather (6c snow)	00:07:25	Suspected snow coming off power lines.
Jan 01/12	MH0 52-F1 (L250)	23	Adverse Weather (6c snow)	0:13:30	Suspected snow coming off power lines. No other cause found
Jan 01/12	MH0 52-F1 (L250)	2	Adverse Weather (6c snow)	04:29:00	MH0 52-F1 Tripped at 23:51 on Jan 01 and was closed at 04:20 on Jan 02. During this time the line was energized and de energized while trying to find the cause and supplying power to our customers. Diesel generation was used to restore power to most customers on L250.
Jan 02 /12	Dawson	1262	Adverse Weather (6c snow)	00:24:44	Heavy blizzard reported in the Dawson area. No other cause found.
Jan 02/12	MH0 52-F1 (L250)	2	Adverse Weather (6c snow)	43:52:00	MHO 52-F1 Tripped at 16:59 on Jan 02 and was closed back in at 12:52 on Jan 04 2012. The cause was found to be snow that was built up on the Jumper, weighing it down and coming in contact with the Cross arm causing the previous outages on L250.
Jan 03/12	Dawson	1262	Adverse Weather (6c snow)	00:20:00	Heavy snow built up on power lines. No other cause reported.
Jan 04/12	L177 Partridge Creek	2	Adverse Weather (6c snow)	03:42:00	S256 52-2 tripped on L177A ground fault at KM 67. Heavy snow and ice built up on line at time of outage.
Jan 04/12	MH0 52-F2	23	Adverse Weather (6c snow)	01:38:41	Mine worker reported a flash near the mill. YEC workers found that heavy snow and ice was built up on the jumper which caused it to become weighted down and come in contact with the cross-arm.

Jan 05/12	Faro 505	12	Adverse Weather (6c snow)	00:00:32	Heavy snowfall reported in the area at the time of the outage. No other cause reported or found.
Jan 12/12	Keno	1 (YECL)	Scheduled Outage (1)	00:30:00 (total)	Keno placed on diesel for planned outage. S257 89-3 Opened and Tagged. Mayo P.L.T. reported that the unit tripped off 3 times for approximately 10 minutes each time due to unit burning but mostly leaking too much oil. YEC Employees placed unit back on line and remained there to place oil in unit.
Jan 17/12	S150 52-21	1 (YECL)	Foreign Interference (9e) (YECL)	00:15:37	S150 52-21 Tripped on Neutral Over current. YECL informed YEC that the outage was caused by a transformer that failed in Shipyards Sub Station.
Jan 18/12	S170 S6838	1 (YECL)	Foreign Interference (9e) (YECL)	00:30:29	S170 S6838 Tripped. Load on feeder at the time of the trip was 15.09 MW. This outage was caused by the breaker loading settings being set too low on breaker S6838. YECL increased the load setting on S6838 and SCC reclosed breaker.
Jan 25/12	Faro 505	12	Adverse Weather (6c snow)	00:01:00	Heavy snowfall reported in the area at the time of the outage.
Jan 29/12	L250	23	Adverse Weather (6c snow)	00:10:12	Heavy frost built up on power lines. Windy.



**Outage / Disturbance Report YTD
February 2012 Q-1**

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Feb 03/12	Faro 505	12	Adverse Weather (6d Wind)	00:00:58	Weather at the time was very windy. No other cause found or reported.
Feb 03/12	Whitehorse S9815	1 (YECL)	Adverse Weather (6d Wind)	00:08:22	Winds up to 90 KPH with heavy rain and melting snow at time of outage.



**Outage / Disturbance Report
March 2012 Q-1**

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Mar 30/12	L170 Whitehorse	337	Tree contact (3)	Dawson F1 - 00:08:13 Dawson F2 - 00:08:39 Dawson F3 - 00:50:42 L250 - 00:09:27 Faro F1 - 03:44:30 Faro F2 - 03:44:11 L356 - 03:40:07 Minto Mine - 04:07:51 L170 (S164-S255) - 00:18:23 L170 (S255-870S) -05:26:23	On March 30, 2012 a contract brusher dropped a tree on the line causing an estimated 8 Mw of load loss over 15% of the grid. The WAF performed well but there were problems on the northern grid.
March 30/12	Haines Junction (S167-52-2)	5	Unknown (0)	00:24:49	S167 52-2 opened for unknown reasons. Operator closed S167 52-2 back in. Breaker closed in and held. No adverse weather reported at the time.

**Outage / Disturbance Report Q2
April 2012 Q-2**



Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration) HH:MM:SS	Comments
April 24/12	Mendenhall	1	Adverse Weather (6c snow)	02:07:00	Heavy snow load built up on power lines.
April 24/12	Mendenhall	58	Adverse Weather (6c snow)	02:06:00	Heavy snow load built up on power lines

Outage / Disturbance Report
May 2012 Q-2



Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration) HH:MM:SS	Comments
May 21/12	Dawson City	13	Foreign Interference (9b)	00:44:00	Truck contacted guy wire on pole #703 breaking the guy wire and slapping the power lines together blowing a 40 amp fuse at switch S7938. Repaired guys, checked power lines and re-fused switch.
May 24/12	Dawson City	2	Defective Equipment (5a)	01:05:00	Switch fell apart. De-energized transformer bank, replaced all three arms of switch. Switch placed back into service.



Outage / Disturbance Report June 2012 Q-2

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration) HH:MM:SS	Comments
June 4/12	L250	23	Unknown (0)	01:38:41	No cause found. Found potential shorts in power line. F1 Opened and F2 closed for restoration.
June 10/12	Northern Section of Power Grid	1955	Defective Equipment (5a)	Mayo – 00:17:00 Dawson – 00:09:34 Faro – 00:40:00 L170 – 00:31:50	YEC Power Line Technician (PLT) flew L170 and discovered a broken cross member and power line lying on the ground. Drury Creek placed on diesel and a GOI was issued to isolate the power line for repairs.
June 12/12	Faro 506	135	Loss of Supply (2a)	00:00:21	Restoration from June 10 L170 outage (broken cross member) resulted in FD7 being manually tripped off line and Faro 701 being closed by SCC. Faro 506 tripped 7 seconds after FD7 tripped.
June 22/12	Champagne	34	Planned power outage (1)	00:25:00	Planned power outage for L171 structure repair/replacement.
June 22/12	Mendenhall	58	Planned power outage (1)	00:00:55	Planned power outage to place Mendenhall on diesel for L171 planned outage to replace structures.
June 22/12	Mendenhall	58	Loss of Supply (2a)	6:56:00	YM2 breaker failure. Sectionalized line at 16:22. Partial restoration to some customers. YM2 replaced with YM4 @ 20:11.
June 24/12	Dawson	1	Tree (3)	00:48:00	Tree fell contacting power line and causing a brief outage.

**Outage / Disturbance Report
July 2012 Q3**



Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration) HH:MM:SS	Comments
July 4/12	Mendenhall	58	Scheduled Outage (1)	00:11:00	Brief outage to place Mendenhall on diesel for planned outage on L171 to replace structures.
July 09/12	Whitehorse	1 (YECL)	Foreign Interference (9e) (YECL)	00:38:21	S150 52-18 Tripped. No cause reported from YECL.
July 09/12	Whitehorse	1 (YECL)	Foreign Interference (9e) (YECL)	00:02:43	S150 52-18 Tripped. No cause reported from YECL.
July 10/12	Whitehorse	1 (YECL)	Foreign Interference (9e) (YECL)	01:51:45	S150 52-18 Tripped. YECL reported 1600 amp A-B phase fault.
July 10/12	L171	83	Tree (3)	02:01:22	Tree fell over onto power line(L171) causing S167 52-1 and S164 52-2 to both trip. Mendenhall and Champagne both affected by this outage.
July 10/12	Mendenhall	58	Tree (3)	04:20:54	Tree fell over onto power line(L171) causing S167 52-1 and S164 52-2 to both trip. Mendenhall and Champagne both affected by this outage.
July 10/12	Champagne	34	Tree (3)	02:01:22	Tree fell over onto power line(L171) causing S167 52-1 and S164 52-2 to both trip. Mendenhall and Champagne both affected by this outage.
July 10/12	Haines Junction (L355)	5	Scheduled Outage (1)	00:44:35	L355 Isolated under GOI 12-287 . Pole leaning in the water. Line openers installed.
July 10/12	Haines Junction (L355)	5	Scheduled Outage (1)	00:38:40	L355 Return to Normal under GOI 23-287. Line openers installed in preparation for pole replacement tomorrow.

July 11/12	Haines Junction (L355)	5	Scheduled Outage (1)	00:30:26	L355 Isolated under GOI 12-288 for pole replacement that leaning in water.
July 11/12	Haines Junction (L355)	5	Scheduled Outage (1)	00:29:44	L355 Return to normal under GOI 12-288. Pole replaced and all L355 customers back on grid power
July 11/12	Champagne	34	Tree (3)	00:02:00	Champagne taken off diesel generation and placed back on grid power.
July 12/12	Mendenhall	58	Tree (3)	00:04:09	L171 Return to Normal. Tree removed from line. Mendenhall taken off diesel and placed back on grid power.
July 12/12	Johnson's Crossing	13	Scheduled Outage (1) (YECL)	03:30:00	YECL planned power outage along 9L.
July 19/12	Partridge Creek and Moose Creek.	7	Scheduled Outage (1)	03:05:49	Planned power outage.
July 19/12	Partridge Creek and Moose Creek.	7	Scheduled Outage (1)	00:30:36	Planned power outage to return to normal on Guarantee of Isolation
July 25/12	Faro 505	12	Unknown (0)	00:16:44	Mayo "B" Transformer differential external fault. S251 T1 AVR Fault. The cause was undetermined, however, it may have been a incorrect breaker protection setting.
July 26/12	S9815	1 (YECL)	Foreign Interference (9e) (YECL)	00:27:18	YECL informs of cable fault on 34.5 single phase line.

Outage / Disturbance Report August 2012 Q-3



Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Aug 05/12	Keno/Alexco	1	Scheduled Outage (1)	00:02:00	Keno placed on diesel generation for planned work.
Aug 05/12	Keno/Alexco	1	Scheduled Outage (1)	00:02:00	Keno taken off diesel generation. Planned work completed.
Aug 15/12	Whitehorse and Dawson City	402	Defective Equipment (5a)	S6838 – 00:12:30 S250-52-2 – 00:01:34	AH1 was being test Run under CSP 12-344 when it tripped due to high bearing temperature. <i>Cause was found to be a faulty temperature switch which was tested and replaced.</i>
Aug 21/12	Faro	135	Foreign interference (9a)	03:07:52	Faro P.L.T. reports receiving a call from the Faro town Foreman regarding a raven contact. P.L.T. found a fuse blown on transformer. Whitehorse PLT dispatched from Carmacks.
Aug 22/12	Dawson City (Lot # 5 in Callison)	1	Defective Equipment (5a)	21:10:00	Customer approached Dawson City P.L.T. on Thursday Aug 23 in the later part of the afternoon asking why he had no power. SCC did report Hunker alarms on Wednesday night. Tried to refuse but instantly blew. Installed new transformer switch and arrester then re-energized.
Aug 25/12	Dawson City (Boutilleire Road)	5	Tree Contact (3)	00:35:00	Tree snapped and fell onto Primary on Boutilleire Road. Had to isolate the power line, cut the tree clear then help the fire department put out the hot spots. Line was then re-energized.
Aug 30/12	Dawson City S250-52-2 (Hunker Feeder)	401	Unknown (0)	00:01:43	S252-52-2 Tripped. SCC Operator called for one reclose. Feeder reclosed and held. Dawson PLT did a line patrol. Nothing found.

Outage / Disturbance Report September 2012 Q-3

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Sept 04/12	Dawson, Mayo and Minto Mine	1619	Defective equipment (5a)	Dawson Fdr. #1 – 00:03:59 Dawson Fdr. #2 – 00:04:38 Dawson Fdr. #3 – 02:26:24 Mayo (MH0 52-F3) – 01:44:59 Minto Mine Feeder – 79:56:49	YEC worker dispatched to S253 to investigate T1. SCC Operator tried 1 reclose on S253 52-T1 and S253 52-F2. Breakers held for 40 seconds then tripped again. YEC Electrician then sectionalized line by opening S254 89-1, line held indicating an issue with the cables or S254 T1. Cause was determined to be a failed lightning arrester for S254-T1
Sept 05/12	Dawson, Faro and Mayo	1955	Tree (3)	Dawson Fdr #1 – 00:07:28 Dawson Fdr #2 – 00:07:28 Dawson Fdr #3 – 00:24:11 Mayo MH0 52-F3 – 00:18:46 Faro 505 – 01:39:46 Faro 506 – 01:38:46 Faro 507 – 01:39:16	S164 52-3 Tripped causing a Northern grid outage. Minto mine was on diesel at the time of outage so was not affected. Dawson was restored by diesel generation. Mayo was restored by diesel generation. Faro power restored by grid power. Tree found on line between S253 and S254. S253 52-T1 locked out – YEC Electrician dispatched to reset.
Sept 8/12	Haines Junction (S167-52-2)	5	Adverse Weather (6d)	00:01:43	S167-52-2 Tripped at 14:50 and was closed back in at 14:51:30 by SCC Operator. Feeder closed and held. Snow and wind reported at the time of the outage.
Sept 08/12	Minto Mine (S253-52-2 and S253-52-T1)	2	Tree (3)	21:52:38	S253-52-F2 and S253-52-T1 both tripped. YEC worker dispatched and was able to reset the lockout on S253-52-T1. YEC worker then spent the night in Carmacks and flew the line the next day with another YEC worker. A tree was found on the power line. Line was isolated and tree removed. Power was then restored back to Minto Mine.
Sept 16/12	Haines Junction (S167 52-2)	5	Adverse Weather (6d)	00:00:58	S167 52-2 Tripped and was reclosed within 58 seconds by the SCC Operator. Very windy at time of outage.

Sept 19/12	WAFMD	2064	Tree (3)	<p>Whitehorse 9L – 01:08:15 Whitehorse 19L – 01:11:29 Whitehorse 13L – 02:08:20 Whitehorse 10L – 01:39:15 Whitehorse S6837 – 02:56:12 Whitehorse S6838 – 03:11:44 Whitehorse S9815 – 02:59:35 Minto Mine - 01:18:00 Faro – 00:48:24 Dawson Feeder #1 – 00:06:30 Dawson Feeder #2 – 00:07:00 Dawson (Hunker 1st section) S250 52-2 - 00:22:40 Dawson (Hunker 2nd section) S250 52-2 - 00:23:40 Mayo – 00:36:00</p>	Cause of this outage was found to be a tree on L169 (138Kv Line). Strong South winds at the time of the outage.
Sept 23/12	Fox Lake	1	Tree (3)	00:30:00	Customer called from South Fox Lake area to report a tree leaning against the neutral. YEC Lineman dispatched to isolate section of line, remove tree and re-energize.

Outage / Disturbance Report October 2012 Q-4



Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Oct 07 /12	Faro 505	11	Unknown (0)	00:03:21	Not sure of cause. Breaker closed and held on first attempt.
Oct 07 /12	Whitehorse	1 (YECL)	Foreign Interference (9e) (YECL)	S150-52-18 – 00:50:09 S6837 – 01:06:39 S9815 – 01:11:09 S6838 – 01:14:14	YECL caused outage. YECL initial explanation was a cable fault but everything went back together without issue. System split at S164 52-1. Aishihik plant feeding the North and Whitehorse hydro supplying the South and Faro. Mayo A and B out of service. S9530 (Loop) closed.
Oct 19/12	Dawson C4 Subdivision	43	Foreign Interference (9b)	C4 Subdivision: Pole #423 – 05:27:00	Car out of control at 00:30 am. Ran over street light pole before Dome road then got back on highway, went to C4 subdivision & hit tap off pole #423 knocking riser off. Customer called in at 4:30 & said power been out since 00:30 am & her house is getting cold.
Oct 25/12	Dawson	840	Unknown (0)	S250-52-2 – 00:04:21 P158-52-F2 – 00:04:57	WH4 was shutdown to allow for the removal of the fish screen I beams. When it was placed back on line and loaded up to approximately 13 Mw it became unstable dropping 5 Mw causing an under-frequency condition on the system tripping off Dawson F2 and F3. The unit continued to swing, ultimately going to full output 20.6 Mw and stabilizing.

Outage / Disturbance Report November 2012 Q-4

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Nov 6/12	Champagne	34	Scheduled Outage (1)	00:06:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 6/12	Mendenhall	58	Scheduled Outage (1)	00:01:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 7/12	Champagne	34	Scheduled Outage (1)	00:05:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 7/12	Mendenhall	58	Loss of Supply (2a)	01:25:00	Mendenhall to be left on diesel generation between planned power outages for L171 upgrades. Customer called to report power out in Mendenhall. Lineman dispatched to investigate outage. Lineman reports that YM3 was running but the breaker had tripped. Lineman placed Mendenhall back on grid power.
Nov 7/12	Mendenhall	58	Scheduled Outage (1)	00:01:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 7/12	Champagne	34	Scheduled Outage (1)	00:09:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 8/12	Champagne	34	Scheduled Outage (1)	00:04:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 8/12	Mendenhall	58	Scheduled Outage (1)	00:01:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 13/12	Mendenhall	58	Defective Equipment (5a)	02:49:00	Secondary leads burnt off transformer at T171M-89-4.

Nov 14/12	Champagne	34	Scheduled Outage (1)	00:08:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 14/12	Mendenhall	58	Scheduled Outage (1)	00:08:00	Planned power outage for L171 upgrades. Switch to Isolate.
Nov 15/12	Champagne	34	Scheduled Outage (1)	00:09:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 15/12	Mendenhall	58	Scheduled Outage (1)	00:09:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 15/12	Mendenhall	58	Scheduled Outage (1)	00:09:00	Planned power outage for L171 upgrades . Switch to Isolate.
Nov 15/12	Champagne	34	Scheduled Outage (1)	00:11:00	Planned power outage for L171 upgrades . Switch to Isolate.
Nov 15/12	Dawson City	1	Foreign Interference (9c)	00:32:00	Customer upgraded service on their trailer from 100 amp to 200 amp then installed an electric furnace. This has blown a 2 amp fuse on 10 KVA transformer. (They were pulling 184 amps off of it). This is too much for 10 KVA transformer. Dawson P.L.T. suggested they need to pay for transformer upgrade.
Nov 16/12	Champagne	34	Scheduled Outage (1)	00:07:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 16/12	Mendenhall	58	Scheduled Outage (1)	00:08:00	Planned power outage for L171 upgrades. Return to Normal.
Nov 20/12	Keno	1 (YECL)	Scheduled Outage (1)	00:02:00	Planned power outage to place Keno on diesel for the next day's switch to tie in L250 to the new S249 Sub Station.
Nov 20/12	Keno	1 (YECL)	Loss of Supply (2a)	00:32:00	After Keno was placed on diesel generation for the next day's switch the diesel generator tripped off line. Serviceman was dispatched to Keno and connected them back to grid power.

Nov 21/12	Keno	1 (YECL)	Scheduled Outage (1)	00:02:00	Planned power outage to place Keno on diesel generation for today's switch to tie in L250 to the new S249 Sub Station.
Nov 21/12	Champagne	34	Defective Equipment (5a)	04:39:00	PLT and Electrician were dispatched to Champagne. Discovered burnt transformer leads on secondary transformer. Most customers restored. Will need to replace transformer.
Nov 21/12	Champagne	1	Equipment Failure (5a)	15:11:00	Outage in Champagne at 06:32:00 pm resulted in most customers power restored by 11:11:00 pm. There was, however, 1 customer, the Fire hall and Community center that were without power for the night due to a blown transformer.
Nov 22/12	Champagne	34	Scheduled Outage (1)	01:12:00	Outage to replace a blown transformer in Champagne from previous night outage.

Outage / Disturbance Report December 2012 Q-4

Date	Location	Number of Customers Affected	Cause	Duration (Outage to Restoration)	Comments
Dec 01/12	Mendenhall	58	Loss of Supply (2b)	15 customers restored at 02:20 on Dec 2 (03:00:00) 18 customers restored at 03:40 on Dec 2 (04:20:00) 12 customers restored at 05:30 on Dec 3 (29:50:00) 13 customers restored at 06:00 on Dec 3 (30:20:00)	This outage was caused by a blown P.T. on the 138kv power line. The remaining 13 customers were restored by mobile diesel by 06:00 on Dec 03.
Dec 03/12	Mendenhall	5	Scheduled Outage (1)	00:05:00	Installation of Transformer resulting in brief outage to customers at top of Cranberry Lane.
Dec 03/12	Dawson (Dredge Pond Subd.)	30	Human Element (8e)	00:32:00	Fuse blown on Dredge Pond Subdivision fuse was a 7 amp. There has been a transformer add & upgraded in this Subdivision without increasing fuse at tap off.
Dec 10/12	S256-52-2 (Dawson L177)	1262	Adverse Weather (6c)	S256-52-2 00:30:56 P158 52-F1 00:17:19 P158 52-F2 00:16:54 S250 52-2 00:40:27	S256 52-2 tripped open. Three seconds later MBH1 tripped offline as well. At the same time communications went down for P158 and S250 so their status were unknown. Dawson City P.L.T. was immediately dispatched to island Dawson, start diesels generators and close Dawson Feeders. Mayo Operator/Mechanic was dispatched to investigate MBH1. Most likely cause of line trip was line slap due to heavy snowfall the night before.
Dec 11/12	Dawson City S250-52-5	1262	Human Element (8c)	P158-52-F1 00:01:06 P158-52-F2 00:00:47 (First trip) P158-52-F2 00:00:45 (Second trip) S250-52-2 00:03:53	Outage was caused when YEC Technician placed the Callison PLC back on line. Callison PLC had been out of service since Dec 10, 2012 06:04 during previous Dawson City outage caused by weather.

Dec 12/12	Mayo (S256-52-1)	356	Adverse Weather (6c snow)	S256-52-1 00:05:47 S249-52-4 00:07:58 S249-52-5 00:08:02	Heavy snowfall, rising temperatures and strong winds were reported at the time of the outage. No other cause found. S249-52-5 failed to close on the return to normal.
Dec 12/12	Dawson (S256-52-2)	1262	Adverse Weather (6c snow)	S256-52-2 00:04:13 P158-52-F1 00:06:48 P158-52-F2 00:06:53 S250-52-2 00:05:169	Heavy snowfall, rising temperatures and strong winds were reported at the time of the outage.
Dec 14/12	Mendenhall	15	Generation Failure (2a)	T171M-89-8 00:41:00	7:25 received call from Mendenhall that power is out. YEC Electrician reports fan belt broke on YM3. Restored to Grid power as was waiting for new PT to soak in overnight anyway.
Dec 16/12	Mayo (S256-52-1)	356	Adverse Weather (6c snow)	S256-52-1 00:20:17 S249-52-5 00:18:21 S249-52-4 00:18:26	Strong winds and heavy snowfall reported at time of outage. No other cause reported or found. Problems closing S249 52-4 called for the second time it failed to close Mayo Electrician was going to investigate at S249 SCC called for a open 4 sec later breaker then closed. <i>Breaker failed to close due to commands being reversed in SCADA.</i>
Dec 30/12	Elsa Line (L250)	23	Adverse Weather (6c)	S249-52-4 00:18:09 S249-52-5 00:18:15	Weather changing drastically. Suspect snow/frost coming off the lines and causing the power lines to slap together.
Dec 31/12	Elsa Line (L250)	23	Adverse Weather (6c)	S249 52-4 00:02:00 S249-52-5 00:02:05	Temperatures in Mayo rapidly increasing. Frost built up on lines most likely the cause. Mayo Lineman to fly L250 in after noon. After Lineman flew the line he reported that he saw nothing.