

Our File: 2/ 2703-05-04

April 5, 2017

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

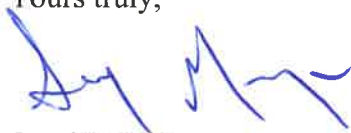
Attention: Mr. Bob Laking, Chair

Re: YEC Outage Report – 2017 (Q1)

Please find attached the YEC outage report for the period of January through March 2017. 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,



Guy Morgan
Director, Operations
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Enclosure

CC via email : Jay Massie, ATCO Electric Yukon



Outage / Disturbance Report - 2017 Q1

Outage/Disturbance Report - January 2017					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Jan 13, 2017	605 (Other Adverse Weather)	Heavy wet snow and strong northerly winds at the time of the outage.	Elsa Line (L250)	17	0.02
Jan 15, 2017	603 (Wet Snow)	Heavy wet snow and strong blowing winds at the time of the outage.	Elsa Line (L250)	17	0.01
Jan 17, 2017	700 (Adverse Environment)	Aishnik Plant slowly began to shed load until all three Aishnik units were taken off line. This event was caused by a complete ice buildup on the intake - warm weather caused ice to weaken along power canal and eventually break off and plug up intake. Divers and steamer truck needed to remove ice/debris from trashracks. Minto Mine placed on their back up diesel generators until Aishnik plant brought back to service.	S254-52-TR (Minto Mine) 9L (S150-52-22) Dawson (Feeder 1) Dawson (Feeder 2)	1 1 447 459	33.65 0.61 0.37 0.38
Jan 26, 2017	103 (Maintenance)	Perform fuse upgrade.	T170B (Braeburn)	15	0.42
Jan 29, 2017	0 (Unknown)	Call out at around 13:50 customer in Mayo industrial area was without power check for sign of wild life around transformer pole and at the road by pp 223 found nothing obvious refuse and closed switch all good.	Mayo Distribution	1	0.33

Outage/Disturbance Report - February 2017

Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Feb 01, 2017	808 (Other Human Element)	System split at the time of this outage for a structure repair along L178. Voltage spiked when closing in S255-52-2, picking up all of L178 as well as to L170-89-481. It was later determined that the GOI point that was used (L178-89-481) created too many MVARs as it was later decided that L170-89-754A should have been the GOI point (Less line voltage). Also, as voltage increased rapidly SCC Lead tried to lower voltage with S251 Tap Changer. SCC Lead adjusted tap changer in wrong direction. COMMS were inconsistent at the time of this outage, visibility of the voltage regulator steps were slow to update. Had to activate points every time a command was given. If steps updated quicker, SCC Lead would have seen voltage stepped in wrong direction and made the corrective actions to prevent further escalation of the increasing voltage.	Dawson (Feeder 1) Dawson (Feeder 2) Dawson S250-52-2 (Hunker Feeder) S254-52-TR (Minto Mine) L177 Stewart North to Dawson L174 (Minto Landing to	447 459 437 1 8 1	0.30 0.31 0.53 3.17 0.24 1.22

			Stewart South)		
			L178 (Carracks to Faro)	288	2.48
Feb 13, 2017	604 (Ice/icing)	Power out in Henderson: line patrolled found blown 15amp fuse at S7962. Refuse line and all customer came back on. High wind and snow at time looks like line slap from snow load unloading.	Henderson Corner	26	0.96
Feb 16, 2017	103 (Maintenance)	Installed 3 LA's on a 3 phase bank at Mayo Airport.	Mayo Distribution	1	2.00
Feb 18, 2017	500 (Equipment Failure)	WAFMID system wide outage. Mayo and Haines Jct. were the only locations left with power. WH4 tripped at 18:30MW. After investigation it was determined that a control circuit failed on the exciter.	S9815	1	1.77
			S6837	1	1.77
			S6838	1	1.76
			10L (S150-52-21)	1	1.36
			9L (S150-52-22)	1	1.10
			19L (S150-52-17)	1	1.38
			13L (S150-52-18)	1	1.47
			Faro 505(Ross River Feeder)	12	0.52
			Faro 506(Feeder #2)	135	0.53
			Faro 507(Feeder #1)	135	0.53
			S164-52-7 (Whistlebend Feeder)	1	2.02
			S254-52-TR (Minto Mine)	1	3.63
			Dawson (Feeder 1)	447	0.23
			Dawson (Feeder 2)	459	0.23
			Dawson S250-52-2 (Hunker Feeder)	437	0.90
			L171 (Aishihik Line)	77	0.65
			L170 (S164 to Carracks)	33	0.77
			L173 (Carracks to Minto Landing)	3	1.17
			L178 (Carracks to Faro)	288	1.20
			L174 (Minto Landing to Stewart South)	1	0.50
			L175 (Stewart South to Stewart North)	1	0.48
			L177 Stewart North to Dawson	8	0.50

Feb 20, 2017	506 (Other Equipment Failure)	Recloser on S249-52-10 failed causing S249-52-10 to trip, causing an outage in Mayo. Mayo power restored with Mayo diesel generation.	Mayo Distribution (L453)	304	1.48
Feb 20, 2017	105 (Forced Switching)	Mayo breaker S249-52-10 was bypassed. Diesels were taken off line (Mayo outage), then re-energized Mayo (L453) with hydro. (S259-52-10 SCADA tagged do not operate). Possible animal contact as there was an "A phase to ground".	Mayo Distribution (L453)	304	0.07
Feb 28, 2017	702 (Contamination (Dirt, pollution, other external particles))	AH2 tripped on over voltage. After investigation it was determined that AH2 tripped due to all 11 brushes on one of the slip rings being damaged (5 severely). The cause may be due to contamination of fiberglass dust and access to perform regular checks on the Ashihik units.	S6838 Dawson S250-52-2 (Hunker Feeder) Dawson (Feeder 1) Dawson (Feeder 2) 9L (S150-52-22)	1 437 447 459 15	0.23 0.12 0.10 0.11 0.38

Outage/Disturbance Report - March 2017

Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Mar 03, 2017	910 (Other Utilities)	S3838 Tripped. No cause was given from AEV.	S6838	1	0.28
Mar 07, 2017	103 (Maintenance)	Perform upgrades to the Mayo Distribution system.	Mayo Distribution	3	1.03
Mar 08, 2017	103 (Maintenance)	Perform upgrades to Mayo Distribution system.	Mayo Distribution	1	0.83
Mar 16, 2017	108 (Other Scheduled)	Planned line outage for L178 to isolate Faro Mine from grid for maintenance in S162.	L178 (Carracks to Faro)	26	1.23
Mar 20, 2017	103 (Maintenance)	Planned outage required to cut out inline openers to straighten pole and change out three switches.	Dawson Distribution Customers	59	1.50