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Y1A 2B0

Our File: 2/ 2703-05-04

October 21, 2019

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

RE: YEC Outage Report – 2019 (Q3)

To Whom It May Concern:

Please find attached the YEC outage report for the period of July through September 2019. 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 me.

Yours truly,

A handwritten signature in black ink, appearing to read "Guy Morgan", is written over a light blue horizontal line.

Guy Morgan
Director of Operations
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Outage / Disturbance Report Q3 2019

Outage/Disturbance Report July 2019					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Jul 02, 2019	901 (Wildlife (Bird/Animal))	YTG maintenance shop called SCC cut out open	Dawson S250-52-2 (Hunker Feeder)	1	0.42
Jul 02, 2019	103 (Maintenance)	Placing customers to temp diesel generation for L171 Line Project	Champagne Customer(s)	39	0.07
Jul 02, 2019	103 (Maintenance)	Placing customers to temp diesel generation for L171 Line Project	Mendenhall Customer(s)	59	0.17
Jul 01, 2019	906 (Customer Equipment)	L180 B Phase Fault L180 Ground Fault	S249-52-4 (L250)	17	0.22
			S249-52-4 (L250)	17	1.75
Jul 01, 2019	400 (Lightning)	Lightening in Area. L171. Haines Junction stayed on.	L171 (Aishihik Line)	77	0.07
Jul 08, 2019	203 (Generation Inadvertent)	Mendenhall on mobile generation with 2 generators. Generator shutdown with ECU alarm code. 1/2 Mendenhall out	Mendenhall Customer(s)	30	3.35
Jul 10, 2019	906 (Customer Equipment)	S258 L180 87B Differential Trip S258 L180 B Protection C Phase Fault Alarm S258 L180 B Protection B Phase Fault Alarm Restoration took longer than normal because YEC staff had to patrol L180 by truck and UTV due to extreme fire rating. No helicopter available. OIC obtained permission from OA before energizing partially inspected L180 due to extreme fire rating. Fault found to be in Bell Keno. L250-89-533 left open	S258-52-3	1	3.93
			L250 (S258-Keno)	17	3.61
			L180	4	3.93
Jul 14, 2019	500 (Equipment Failure)	S249-52-4, S249-52-5 and S258-52-1 tripped Phase A/ Phase B/ Phase C Alarm at S258, no Alarm in S249	Elsa Line L180 / L250	21	0.07
Jul 14, 2019	500 (Equipment Failure)	S249-52-4, S249-52-5 and S258-52-1 tripped Phase A/ Phase B and Ground fault Alarm at S258, no Alarm in S249	Elsa Line L180 / L250	21	0.15
Jul 15, 2019	500 (Equipment Failure)	S249-52-4, S249-52-5 and S258-52-1 tripped Phase A/ Phase B/ Phase C Alarm at S258, no Alarm in S249	Elsa Line L180 / L250	21	0.06

Jul 22, 2019	400 (Lightning)	S164 targets from the A & B relay show an A to B Ground Trip between km 16.5-19.3 @ 539 Amps. Most likely lightning strike. When L171 opened, AH3 was holding S167 52-R1. SCC opened S167 52-R1, started AH1 and restored L171 up to S164.	Champagne, Mendenhall & Stoney Creek (L171)	100	0.13
Jul 22, 2019	400 (Lightning)	Faro L178 Protection relay A & B received transfer trips from S255. Lots of lightning strikes in the area.	L178 Carmacks to Faro - Not Including Faro Customers but including Faro Mine	15	0.27
			Faro 505, 506 and 507	282	0.29
Jul 22, 2019	400 (Lightning)	S164 L170 Zone 2 Phase distance 21A 175km @ 340A 20:55:59 Suspected lightning. Possible two lightning events. One at 20:49:15 near Minto Landing and one at 20:55:59 near L170.	Dawson (Feeder 1)	466	0.22
			Dawson (Feeder 2)	468	0.26
			Dawson S250-52-2 (Hunker Feeder)	460	0.76
			L170 (S164 to Carmacks)	33	0.30
			L178 Carmacks to Faro - Not Including Faro Customers but including Faro Mine	15	57.41
			Faro 505(L356 Ross River Feeder)	12	0.46
			Faro 506(Feeder #2)	135	0.45
			Faro 507(Feeder #1)	135	0.93
			L177 Stewart North to Dawson	8	0.94
			L173 (Carmacks to Minto Landing)	3	0.48
			S253-52-T1 - NWTel and AEY	2	0.61
			S254-52-TR (Minto Mine)	1	0.65
Jul 24, 2019	906 (Customer Equipment)	Eagle Gold closed CS1 secondary to energize T1 from grid and L180 tripped on A-B fault.	Elsa Line L180 / L250	21	1.41
			Elsa Line L180 / L250	21	0.72
Jul 24, 2019	906 (Customer Equipment)	S249 52-4, 52-5 & S258 52-1 tripped when Eagle Gold closed in on CS1 secondary to energize T1	Elsa Line L180 / L250	21	0.72
Jul 25, 2019	105 (Forced Switching)	Opened at S249 52-4, 52-5. Fault Indicators placed along L180 to investigate Victoria Gold tripping offline.	Elsa Line L180 / L250	21	0.02
Jul 25, 2019	105 (Forced Switching)	Opened at S249 52-4, 52-5. Fault Indicators placed along L180 to investigate Victoria Gold tripping offline.	Elsa Line L180 / L250	21	0.03

Jul 25, 2019	105 (Forced Switching)	Opened at S249 52-4, 52-5. Fault Indicators placed along L180 to investigate Victoria Gold tripping offline.	Elsa Line L180 / L250	21	0.01
Jul 25, 2019	105 (Forced Switching)	Opened at S249 52-4, 52-5. Fault Indicators placed along L180 to investigate Victoria Gold tripping offline.	Elsa Line L180 / L250	21	0.02
Jul 26, 2019	802 (Protection Setting)	Comm line error that caused protection to operate. Adjustments have been made	Elsa Line L180 / L250	21	0.62

Outage/Disturbance Report August 2019					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Aug 06, 2019	101 (Customer Requested)	GOI 19-497 return to normal Install Openers	Dawson (Feeder 1)	466	0.05
Aug 06, 2019	101 (Customer Requested)	GOI 19-497 planned outage to install switch	Dawson (Feeder 1)	466	0.11
Aug 07, 2019	101 (Customer Requested)	G O I 19_499 start switching at 2 am installed grounds for work being done on the Cassiar BLDG	Dawson (Feeder 1)	466	3.35
Aug 03, 2019	900 (Foreign Interference)	VI-Tree reported they put a tree on the line while brushing	Faro 505, 506 and 507	282	0.50
			L178 Carmacks to Faro - Not Including Faro Customers but including Faro Mine	15	4.68
Aug 06, 2019	301 (Falling Tree)	A tree fell on the line – Broke insulators and cross arms – had to operate several local breakers to get the Hospital and as many customers back on the grid as possible	Dawson (Feeder 2)	468	3.80
			Dawson (Feeder 1)	466	0.03
Aug 08, 2019	101 (Customer Requested)	Contractor working on the Cassiar BLDG in Dawson doing siding on third floor beside the 3 phase primary line	Dawson (Feeder 1)	14	3.40
Aug 09, 2019	101 (Customer Requested)	Cassiar BLDG crew installing siding in the alley parallel to the 3 phase	Dawson (Feeder 1)	14	3.77
Aug 10, 2019	101 (Customer Requested)	Cassiar BLDG finished capping their BLDG along feeder one	Dawson (Feeder 1)	14	3.95
Aug 14, 2019	102 (Construction)	Arctic Backhoe installed conduit at the switch gear S8013 open S8013 and S7970	Dawson S250-52-2 (Hunker Feeder)	3	0.75
Aug 29, 2019	503 (Defective Equipment/Material)	Feeder 1 isolation Required to fix Gang Switch S7905	Dawson (Feeder 1)	466	0.04
Aug 28, 2019	103 (Maintenance)	PP 34 S7905 gang switch center phase had a hot spot on arcing horn. Isolated feeder 1 and potential test and installed grounds open and close gang switch.	Dawson (Feeder 1)	466	1.55

Outage/Disturbance Report September 2019					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Sep 09, 2019	300 (Tree Contacts)	Breaker tripped, Closed at request of Atco	Faro 505(L356 Ross River Feeder)	12	0.14
Sep 10, 2019	911 (Other foreign Interference)	-There was a large sudden load added to the system that units were unable to respond to. Customer did not notify SCC of load pickup.	Dawson S250-52-2 (Hunker Feeder)	460	0.09
			Mayo Town Feeder (S249-52-10)	360	0.12
Sep 17, 2019	103 (Maintenance)	replaced porcelain cut outs on 3 phase bank two where on feeder one in town after business hours PP 36 one customer and PP36 A 3 customer PP49 on hunker feeder 3 phase bank 1 customer PP1444 -3 phase bank no customer all banks took average or 20 minutes PP1451- 1467 -1451A all single phase transformer with one customer 7 minutes per cut out change	Dawson S250-52-2 (Hunker Feeder)	5	1.33
Sep 17, 2019	103 (Maintenance)	; Dawson Feeder 1 porcelain cut out change door knocking notifying customer on single phase transformer that the power would be going out for about 10 minutes this affected customer on from princess street to King street in the alley behind third avenue PP 3 38a 38 39 42 also pp 222 on 7 Ave and queen and PP 305 on King and 4 Ave	Dawson (Feeder 1)	17	1.17
Sep 17, 2019	103 (Maintenance)	IBEX doing porcelain cutout replacement on feeder one starting in alley behind 2 Ave and queen street to Harper street pp 55 pp52 pp50 pp all 3 phase transformer	Dawson (Feeder 1)	50	1.00
Sep 17, 2019	103 (Maintenance)	Dawson Feeder 2 porcelain cut out change from Albert street and second Ave to the end of the north end line total customer affected PP 71a 84 134 135 138 124 total 19 customer at 7 minutes on average per transformer	Dawson (Feeder 2)	19	1.25
Sep 09, 2019	911 (Other foreign Interference)	There was a large sudden load added to the system that units were unable to respond to. Customer did not notify SCC of load pickup.	Dawson S250-52-2 (Hunker Feeder)	460	0.09
			Mayo Town Feeder (S249-52-10)	360	0.12
Sep 16, 2019	300 (Tree Contacts)	S249-52-5 indicates a phase C-GND fault in zone 1. Conducted Line Patrol.	L180	4	1.10
			L250 (S258-Keno)	17	1.22
Sep 14, 2019	506 (Other Equipment Failure)	The cause of the trip was a momentary loss of 24vdc power supply to the Dawson plant, "fire alarm panel B." In Figure 1, a loss in 24vdc to relays FFT, FET1, and FET2 will cause a trip to be sent to F1, F2, DD1, DD2, DD3, DD4, and DD5.	Dawson (Feeder 1)	466	0.15
			Dawson (Feeder 2)	468	0.14
Sep 18, 2019	103 (Maintenance)	; lbex porcelain cut out change on feeder 2	Dawson (Feeder 2)	61	2.00
Sep 18, 2019	103 (Maintenance)	Dawson feeder 1 cut out replacement on 3 phase bank	Dawson (Feeder 1)	61	1.00
Sep 18, 2019	103 (Maintenance)	lbex porcelain cut out replacement Dawson feeder 2 residential	Dawson (Feeder 2)	53	3.00

Sep 19, 2019	103 (Maintenance)	; IBEX porcelain cut out change in Callison	Dawson Distribution Customers	13	1.50
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