



Outage / Disturbance Report 2021

Outage/Disturbance Report October 2021					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Oct 01, 2021	910 (Other Utilities)	Tree on line S150-52-22, Tripped off Johnsons Crossing. Johnsons Crossing on diesel as ATCO was difficult to contact for an ETA. ATCO restored power at the specified time.	Johnson Crossing	12	1.90
Oct 02, 2021	910 (Other Utilities)	Multiple trees on Atco lines, Tripped off Johnsons Crossing. ATCO restored power at the specified time.	Johnson Crossing	12	11.80
Oct 02, 2021	301 (Falling Tree)	S255-52-1 tripped, waited several minutes and tried to close the breaker, breaker opened up immediately and took L170, L178, L173, L254, Mayo Town feeder, P158-52-F2 and S250-52-2. COMMS went out immediately after outage. Update; Tree was discovered on L178.	L170 (S164 to Carmacks)	38	0.05
Oct 02, 2021	304 (Off-ROW Tree)	S255-52-1 tripped, waited several minutes and tried to close the breaker, breaker opened up immediately and took L170, L178, L173, L254, Mayo Town feeder, P158-52-F2 and S250-52-2 out. The Comms in Faro went out immediately with the outage, so there is definitely a problem with the Batteries – had to call Faro Operator to get Faro on Diesel.	L170 (S164 to Carmacks)	38	0.05
			S253-52-2	1	0.25
			Mayo Town Feeder (S249-52-10)	385	0.38
			Dawson (Feeder 2)	510	0.53
			S254-52-TR (Minto Mine)	1	1.18
			Faro 505(L356 Ross River Feeder)	22	0.97
			Faro 506(Feeder #2)	207	0.96
			Faro 507(Feeder #1)	139	0.94
	L178 Carmacks to Faro - Not Including Faro Customers but including Faro Mine	23	42.07		
Oct 03, 2021	906 (Customer Equipment)	Caused by Minto Mine equipment. Had to get mine staff to reset RTU	S254-52-TR (Minto Mine)	1	0.91
Oct 23, 2021	906 (Customer Equipment)	S254-52-1 tripped. No cause discovered.	S254-52-1 (Minto Mine)	1	0.88

Oct 23, 2021	906 (Customer Equipment)	S254-52-1 tripped. No cause discovered.	S254-52-1 (Minto Mine)	1	0.65
Oct 27, 2021	906 (Customer Equipment)	Minto Tripped off at S254-52-1 and S254-52-TR. SCADA showed a S254-52-TR Ground/Resistor NGR1 Fault, appears to be the same issue that we/Minto has been having before.	S254-52-1 (Minto Mine)	1	0.45

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Nov 04, 2021	103 (Maintenance)	Conducted under GOI 21-832 for Repairs and modifications to Mayo Distribution.	Mayo Town Feeder (S249-52-10)	385	3.22
Nov 05, 2021	906 (Customer Equipment)	Outage caused by unknown issue with customer equipment. SCC tried four remote synch closes through S254-52-TR with no luck. SCC adjusted S253 voltage regulator taps so that system side voltage was very close to the voltage reported by mine electrician. System frequency was stable during all tries. SCC ordered mine electrician to try a local synch close on S254-52-TR and he reported that the local synchroscope would not change voltage when given raises or lowers. SCC tried one final close before dispatching an electrician and S254-52-TR closed right away, nothing was obviously different from the previous tries.	S254-52-TR (Minto Mine)	1	1.56
Nov 20, 2021	906 (Customer Equipment)	S162-57-2 Grounding Switch Closed. Dispatched PLT from Whitehorse. Mine ordered to go to diesel. Suspect Mine equipment faulty.	L178 Carmacks to Faro - Not Including Faro Customers but including Faro Mine	23	0.09
			Faro 505(L356 Ross River Feeder)	22	0.12
			Faro 506(Feeder #2)	207	0.12
			Faro 507(Feeder #1)	139	0.12
Nov 20, 2021	503 (Defective Equipment/Material)	PLT looking into S162-57-2, S162-89-2 and T2 Resets. He reset the 57-2 alarms and attempted a open on the switch. SCADA indicated Open. He then mentioned he will be looking at something else and a few minutes later 89-2 went local and showed transition for ~30 Sec. L178 then tripped. S162-89-2 showed open and L178 was restored. PLT indicated no intentional switching of 89-2 and that 57-2 is actuating via controls (Local/local remote) but the switch blades are staying in contact with the line. Inefficient equipment/light/ hazardous weather factors means switch will be investigated in the morning.	L178 Carmacks to Faro - Including Faro	391	0.14

Outage/Disturbance Report December 2021					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Dec 01, 2021	605 (Other Adverse Weather)	Outage Description; L250 Tripped off at ~ 1.9MW, Replays indicated a Phase A-B fault with ~325A at ~19.6KM from S258. 62.17Hz Statcom tripped on apparent low volts, ~56.5KV on L175 Bus S258-52-1/2/3 and S249-52-7 breaker heat tripped, Geoff S. called in for reset, external temp <-25C. P158 Boiler apparently Tripped, Dawson Plant Operator called in to reset. Vic Gold tripped (our breakers stayed closed) at the 52-T1 at ~7.1MW. No issues coming back online after request. Mayo B RAS 1C attempted activation, was disabled. S249 breaking resistors 1 and 2 active for 4 seconds. Mayo B 94 Non lockout trip active. No apparent tripped devices, will be reset in morning. Heavy snow and strong winds at time of outage.	L250 (S258-52-2 to Keno)	3	0.08
Dec 10, 2021	503 (Defective Equipment/Material)	L250 Tripped, this took out most of the power at EG but the breaker to EG was still on, caused by overcurrent at S251-T3 (STATCOM) the STATCOM tripped (email to AI P.) It was later discovered that this outage was caused by a failed insulator.	L250 (S258-52-2 to Keno)	3	0.05
Dec 11, 2021	503 (Defective Equipment/Material)	Line tripped on apparent phase to phase fault. Line would not reclose as fault was still present. PLT dispatched from Whitehorse to investigate/Fix missing line insulator Keno on Diesel and notified ATCO of the situation notified NOCC of the situation In contact with ALEXCO about the situation. No issues reclosing after insulator was replaced	L250 (S258-52-2 to Keno)	3	8.68
Dec 27, 2021	604 (Ice/Icing)	Heavy snowfall and lots of ice built up on power lines.	S256-52-2	1,391	0.05
			Dawson S250-52-2 (Hunker Feeder)	448	0.22
			Dawson (Feeder 1)	429	0.25
			Dawson (Feeder 2)	510	0.26
Dec 27, 2021	501 (Electrical Failure)	505 had catastrophic failure. Ross River was on diesel from initial event and is still not returned as of Dec 29 2021 03:04h.l	Faro 505(L356 Ross River Feeder)	22	86.15
Dec 27, 2021	501 (Electrical Failure)	505 Failed causing 503 to open. This is outage 12 of 4 for the night. This was emergency outage to 506 to tie L356 via 500D6. Note that AEY's Ross River Customers were already on diesel at the time of the outage.	Faro 505(L356 Ross River Feeder)	21	2.15
			Faro 506(Feeder #2)	207	0.10