



Outage / Disturbance Report 2022

Outage/Disturbance Report January 2022					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Jan 12, 2022	501 (Electrical Failure)	Suspect issues with Synchronous Condenser (SC). PLT noticed burning smells in SC building. SC breaker would not open so L177 and Dawson Isolated from each other at S250-52-5 and L177-89-2.	Dawson (Feeder 1)	429	0.26
			Dawson (Feeder 2)	510	0.22
			Dawson S250-52-2 (Hunker Feeder)	448	0.81
			L177 not including Dawson City	3	1.16
Jan 13, 2022	603 (Wet Snow)	Snow coming off power lines causing line slap. This outage affected Alexco Mine.	L250 (S258-52-2 to Keno)	3	0.07
Jan 28, 2022	301 (Falling Tree)	C phase fault and ground fault. Possible tree contact.	L250 (S258-52-2 to Keno)	3	0.01

Outage/Disturbance Report February 2022					
Date	Code	Comments	Location	# of Customers Affected	Duration Hrs
Feb 06, 2022	0 (Unknown)	L250 A&B Protection Relay A phase fault, C phase fault, Time Trip, Relay Trip, Zone 2 Distance Fault	L250 (S258-52-2 to Keno)	3	0.02
Feb 07, 2022	506 (Other Equipment Failure)	L177 Distance Relay A and B. Fault Location 163 Km from S256 Reports of high wind and snow loading on L177 Update: a few days later the Line man found a line toughing a cross arm close to Moose Creek trough a failed Insulator	L177 not including Dawson City	3	0.02
			Dawson (Feeder 1)	429	0.10
			Dawson (Feeder 2)	510	0.12
Feb 09, 2022	902 (Vehicle)	North Klondike IPP tripped on apparent low frequency, they were notified of the trip and return to grid at ~17:20. Grid connection was not interrupted for them, only there MCB tripped. Cause appears to be a truck striking a line. Had an issue where the PTs were opened by falling snow from the structures,	S6837	1	1.02
			S6838	1	1.02
			S9815	1	0.45

		shown by the SCADA analogs reading very large abnormal values. Breaking resistors in Mayo active for ~ 6 Seconds.			
Feb 10, 2022	910 (Other Utilities)	According to ATCO there was something happening in one of their Substations	S150-52-22 (6L11)	14	0.49
Feb 16, 2022	506 (Other Equipment Failure)	PLT found broken insulator 23 km from S256	L177 not including Dawson City	3	23.99
			Dawson (Feeder 1)	429	0.19
			Dawson (Feeder 2)	510	0.16
			Dawson S250-52-2 (Hunker Feeder)	448	0.36
Feb 18, 2022	506 (Other Equipment Failure)	Issue locating fault. Line was flown several times without noting any issue with the line. Line was energized twice, first held for 23 Sec and second held for 3:16 before tripping again. Fault indicating at 22.9 +/- 0.3 Km from S256. Fault indication from S256 showed a distance of ~23 Km with a current draw of ~ 630 A. Grid did not notice subsequent L177 trips during attempts to locate fault. Fault found to be heavy snow fall had bent a phase support on a cross arm over so it was effectively touching the arm. The pole affected was located in the Moose Creek area. YEC was in consistent contact with L177 Residents if they needed a generator or power assistance during outage.	Dawson (Feeder 1)	429	0.08
			Dawson (Feeder 2)	510	0.10
			Dawson S250-52-2 (Hunker Feeder)	448	1.10
			L177 not including Dawson City	3	51.80
Feb 20, 2022	802 (Protection Setting)	Plant Operator in Dawson City did not switch from Dawson Mode after being connected to grid power.	Dawson (Feeder 1)	429	0.15
			Dawson (Feeder 2)	510	0.13