

April 21, 2020

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

Attention: Deana Lemke, Yukon Utilities Board Executive Secretary

Dear Deana Lemke:

Re: Service Interruptions

In accordance with Board Decision 1989-5, attached is the summary of major unplanned outages for the months of January, February and March of 2020. A major outage has, for the purposes of these reports, been defined as an interruption of any length involving either a significant number of customers or a small community.

Please contact me at 867-633-7080, if you require any additional information or clarification.

Yours sincerely,



Bill Cullen, PLT
Manager
ATCO Electric Yukon

WPC/vlm
Encl.

Outages

Service Area 571 Whitehorse

Location Wh-Alaska Hwy South

Customer-Hrs of Interruption 2630:44

Date Reported 2020-03-05

CityTown Everything south

Number of Customers Affected 2906

Outage Number MPJ00340

Time Reported 7:10

Avg. Customer Outage Duration :54

Planned Unplanned

First Interruption 7:07

Explanations and Comments

Sub Number S150 Whitehorse

Last Restoration 8:09

Breaker 52-22 opened. Patrolled and found faulted 34kv breaker. Bypassed breaker and initiated restoration.

Line Number 6L11

Primary Cause 8 Equipment Failure

CEA Coding Defective Equipment

Service Area 576 Teslin

Location Teslin

Customer-Hrs of Interruption 11:50

Date Reported 2020-03-05

CityTown Teslin

Number of Customers Affected 270

Outage Number MPJ00341

Time Reported 7:07

Avg. Customer Outage Duration :02

Planned Unplanned

First Interruption 7:07

Explanations and Comments

Sub Number 27 Teslin

Last Restoration 7:10

Brief outage for 2-3 minutes while plant came on line Lost 6L11 from S150-52-22, See MPJ340 for other details

Line Number 6L19

Primary Cause 8 Equipment Failure

CEA Coding Defective Equipment

Service Area 574 Carcross

Location Carcross

Customer-Hrs of Interruption 6021:35

Date Reported 2020-03-19

CityTown Carcross

Number of Customers Affected 975

Outage Number MPJ00342

Time Reported 13:25

Avg. Customer Outage Duration 6:10

Planned Unplanned

First Interruption 13:24

Explanations and Comments

Sub Number S150 Whitehorse

Last Restoration 19:48

Center insulator on structure failed. Cross country location with limited access. Lost Scada communication to Carcross substation. Sent PLT to close breakers manually.

Line Number 6L18

Primary Cause 8 Equipment Failure

CEA Coding Defective Equipment

Service Area 578 Beaver Creek

Location Beaver Creek

Customer-Hrs of Interruption 29:45

Date Reported 2020-01-29

CityTown Beaver Creek

Number of Customers Affected 119

Outage Number RAF00130

Time Reported 11:00

Avg. Customer Outage Duration :15

Planned Unplanned

First Interruption 10:30

Explanations and Comments

Sub Number

Last Restoration 10:45

A new operator was being shown how operate the mobile unit. He was instructed to open the fuel supply valve, but opened the fuel tank vent valve instead. This was not noticed until the unit shut down from being starved of fuel.

Line Number

Primary Cause 12 Personnel Error

CEA Coding Human Element

Outages

Service Area 590 Lower Post	Location Lower Post	Customer-Hrs of Interruption 1224:08
Date Reported 2020-01-09	CityTown Watson Lake, Lower post, up	Number of Customers Affected 970
Outage Number RJZ00598	Time Reported 6:22	Avg. Customer Outage Duration 1:15
Planned Unplanned	First Interruption 6:22	Explanations and Comments The protection on S7237 failed to operate allowing a transient fault due to frost loading, to operate the generator breakers causing an outage to the entire plant. Problem was discovered and fixed.
Sub Number 31 Watson Lake	Last Restoration 7:59	
Line Number 5L619, 5L620, 5L62	Primary Cause 21 YECL Plant Outage CEA Coding Loss of Supply - Yukon Elec	

Service Area 590 Lower Post	Location Lower Post	Customer-Hrs of Interruption 517:52
Date Reported 2020-01-14	CityTown Watson Lake, Lower post, up	Number of Customers Affected 970
Outage Number RJZ00599	Time Reported 0:17	Avg. Customer Outage Duration :32
Planned Unplanned	First Interruption 0:17	Explanations and Comments A thermo couple on unit 4 failed causing a plant outage in Watson Lake. Unit 4 was taken out of the stacking order and the town was re-energized.
Sub Number 31 Watson Lake	Last Restoration 0:54	
Line Number 5L619, 5L620, 5L63	Primary Cause 21 YECL Plant Outage CEA Coding Loss of Supply - Yukon Elec	

Service Area 573 Watson Lake	Location Watson Lake	Customer-Hrs of Interruption 292:24
Date Reported 2020-01-20	CityTown Robert capbell hwy,	Number of Customers Affected 344
Outage Number RJZ00601	Time Reported 14:29	Avg. Customer Outage Duration :51
Planned Unplanned	First Interruption 14:29	Explanations and Comments Frost online caused breaker to open. Patrolled line, removed frost and re-energized.
Sub Number 31 Watson Lake	Last Restoration 15:20	
Line Number 5L621	Primary Cause 4 Icing CEA Coding Adverse Weather	

Service Area 573 Watson Lake	Location Watson Lake	Customer-Hrs of Interruption 196:30
Date Reported 2020-01-23	CityTown Lower Post, Alaska Hwy Sou	Number of Customers Affected 90
Outage Number RJZ00602	Time Reported 10:22	Avg. Customer Outage Duration 2:11
Planned Unplanned	First Interruption 10:22	Explanations and Comments Frost on line caused breaker to open. Patrolled line, removed frost and re-energized.
Sub Number 31 Watson Lake	Last Restoration 12:33	
Line Number 5L619	Primary Cause 4 Icing CEA Coding Adverse Weather	

Outages

Service Area 573 Watson Lake	Location Watson Lake	Customer-Hrs of Interruption 368:56
Date Reported 2020-01-23	CityTown Robert Campbell hwy, U/G s	Number of Customers Affected 344
Outage Number RJZ00603	Time Reported 13:27	Avg. Customer Outage Duration 1:04
Planned Unplanned	First Interruption 13:27	Explanations and Comments Frost on cross country stretch tripped line off. Sectionalized and got U/G Section back on, Cleared all frost with sled. energized Cottage lots.
Sub Number 31 Watson Lake	Last Restoration 14:52	
Line Number 5L619	Primary Cause 4 Icing	
	CEA Coding Adverse Weather	

Service Area 571 Whitehorse	Location Wh -Airport / Hillcrest	Customer-Hrs of Interruption 1133:20
Date Reported 2020-01-09	CityTown Whitehorse	Number of Customers Affected 1700
Outage Number RSM00593	Time Reported 8:20	Avg. Customer Outage Duration :40
Planned Unplanned	First Interruption 8:20	Explanations and Comments YEC lost some of their LNG units causing instability on the system so they opened S150-52-18. When generation was available we restored our customers.
Sub Number S150 Whitehorse	Last Restoration 9:00	
Line Number 6L13	Primary Cause 13 YEC U/F Load Shed	
	CEA Coding Loss of Supply - Yukon Ener	

Service Area 572 Haines Junction	Location Haines Junction	Customer-Hrs of Interruption 35:39
Date Reported 2020-01-06	CityTown Haines Junction	Number of Customers Affected 547
Outage Number RTW00368	Time Reported 11:09	Avg. Customer Outage Duration :03
Planned Unplanned	First Interruption 11:09	Explanations and Comments YEC requested an emergency outage to bypass regulators at Otter Falls. Haines Junction was being supplied by standby generator when it tripped on over current. Restored power to the majority of customers, remainder where restored once L355 was re-energized.
Sub Number 20 Haines Junction	Last Restoration 11:16	
Line Number 5L610 & 5L609	Primary Cause 7 Overload	
	CEA Coding Defective Equipment	

Service Area 573 Watson Lake	Location Watson Lake	Customer-Hrs of Interruption 479:16
Date Reported 2020-03-08	CityTown Watson Lake	Number of Customers Affected 970
Outage Number SM000009	Time Reported 1:33	Avg. Customer Outage Duration :29
Planned Unplanned	First Interruption 1:33	Explanations and Comments Unit #3 had high water jacke temp shut down. Arrived on site and started available units. Restored power to town. See DIR Nr. SM000010, SM000011
Sub Number 31 Watson Lake	Last Restoration 2:03	
Line Number	Primary Cause 8 Equipment Failure	
	CEA Coding Defective Equipment	

Outages

Service Area 590 Lower Post	Location Lower Post	Customer-Hrs of Interruption 45:00
Date Reported 2020-03-08	CityTown Lower Post	Number of Customers Affected 90
Outage Number SM000010	Time Reported 1:33	Avg. Customer Outage Duration 0:30
Planned Unplanned	First Interruption 1:33	Explanations and Comments See DIR Nr. SM000009
Sub Number 31 Watson Lake	Last Restoration 2:03	
Line Number 5L619	Primary Cause 8 Equipment Failure CEA Coding Defective Equipment	

Service Area 591 Upper Liard	Location Upper Liard	Customer-Hrs of Interruption 53:00
Date Reported 2020-03-08	CityTown Upper Liard	Number of Customers Affected 106
Outage Number SM000011	Time Reported 1:33	Avg. Customer Outage Duration 0:30
Planned Unplanned	First Interruption 1:33	Explanations and Comments See DIR Nr. SM000009
Sub Number 31 Watson Lake	Last Restoration 2:03	
Line Number S7237	Primary Cause 8 Equipment Failure CEA Coding Defective Equipment	

Service Area 571 Whitehorse	Location Wh-Multiple Areas	Customer-Hrs of Interruption 13461:37
Date Reported 2020-02-13	CityTown Whitehorse	Number of Customers Affected 9975
Outage Number SMB00232	Time Reported 14:03	Avg. Customer Outage Duration 1:20
Planned Unplanned	First Interruption 14:03	Explanations and Comments YEC lost Unit 4 and LNG. Load shed S164-52-7, S150-52-17, S150-52-22, S6837.
Sub Number S150 Whitehorse	Last Restoration 15:41	
Line Number multiple	Primary Cause 16 YEC System Outage CEA Coding Loss of Supply - Yukon Ener	

Service Area 571 Whitehorse	Location System Outage	Customer-Hrs of Interruption 24183:10
Date Reported 2020-02-07	CityTown Whitehorse	Number of Customers Affected 7078
Outage Number TCL00072	Time Reported 19:30	Avg. Customer Outage Duration 3:25
Planned Unplanned	First Interruption 19:20	Explanations and Comments YEC lost communication to their equipment causing some of their generation to trip off and shed load. They tripped off S150-52-22,S164-52-7,S6837
Sub Number S170 McIntyre	Last Restoration 22:45	
Line Number Multiple	Primary Cause 16 YEC System Outage CEA Coding Loss of Supply - Yukon Ener	