

January 14, 2022

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 October, November and December 2021. 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 336-4017, if you require any additional information or clarification.

Yours sincerely,



Bill Cullen, PLT
Manager
ATCO Electric Yukon

WPC/vlm
Encl.

Outages

Outage # DIR-SP-629

Date/Time Reported 2021-10-01 12:15

Final Restoration 2021-10-02 5:40

Duration (Hrs) 17.5

Primary Cause Equipment Failure

Secondary Cause Defective Equipment/Material

Service Area 583 Pelly Crossing

Sub Number 304 Pelly Crossing

Line Number 3L408

Location L1009 Main Village Pelly crossing

Number of Customers Affected 75

Customer-Hrs of Interruption 1312.5

Explanations and Comments

Faulted transformer caused breaker outage (S9708). Transformer replaced and line restored.

Outage # DIR-SP-632

Date/Time Reported 2021-10-07 4:00

Final Restoration 2021-10-07 11:50

Duration (Hrs) 7.83333333

Primary Cause Tree Contacts

Secondary Cause Falling Tree

Service Area 592 Marsh Lake

Sub Number 24 Marsh Lake

Line Number 5L612

Location 2nd entrance to New Constabulary

Number of Customers Affected 50

Customer-Hrs of Interruption 391.6666665

Explanations and Comments

Judas Creek outage caused by tree on the line.

Outage # DIR-SP-642

Date/Time Reported 2021-10-26 15:24

Final Restoration 2021-10-26 15:32

Duration (Hrs) 0.13333333

Primary Cause Equipment Failure

Secondary Cause

Service Area 573 Watson Lake

Sub Number 31 Watson Lake

Line Number WL Plant

Location 103 Kilowatt Lane, Watson Lake, YT

Number of Customers Affected 993

Customer-Hrs of Interruption 132.39999669

Explanations and Comments

Unit #4 shutdown causing a town wide outage affecting Watson Lake, Upper Liard and Lower Post. Total load lost was 1,804 kw. Replaced air shut off indicator, repair was completed.

Outage # DIR-SP-651

Date/Time Reported 2021-10-28 14:00

Final Restoration 2021-10-28 17:35

Duration (Hrs) 3.58333333

Primary Cause Scheduled Outage

Secondary Cause

Service Area 573 Watson Lake

Sub Number 31 Watson Lake

Line Number 5L621

Location Robert Campbell Highway, Cottage lots to VOR

Number of Customers Affected 70

Customer-Hrs of Interruption 250.8333331

Explanations and Comments

Planned outage to reconductor 5 spans and rebuild one 2 Phase structure.

Outages

Outage # DIR-SP-646

Service Area 573 Watson Lake

Number of Customers Affected 993

Date/Time Reported 2021-10-29 14:48

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 148.95

Final Restoration 2021-10-29 14:57

Line Number WL Plant

Duration (Hrs) 0.15

Location 103 Kilowatt Lane, Watson Lake,
YT

Explanations and Comments

"Trench float #1" triggered an alarm in the fuel control system. this caused the three feeders to open and resulted in a town outage. Loose connections in the fuel terminal due to vibration. Repair completed.

Primary Cause Equipment Failure

Secondary Cause

Outage # DIR-SP-647

Service Area 573 Watson Lake

Number of Customers Affected 993

Date/Time Reported 2021-10-29 16:14

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 297.9

Final Restoration 2021-10-29 16:32

Line Number WL Plant

Duration (Hrs) 0.3

Location 103 Kilowatt Lane, Watson Lake,
YT

Explanations and Comments

While troubleshooting last fuel system outage, the system was tripped again causing another outage. System was being put in "bypass", lack of redundancy in fuel circuit caused second trip.

Primary Cause Equipment Failure

Secondary Cause

Outage # DIR-SP-648

Service Area 573 Watson Lake

Number of Customers Affected 993

Date/Time Reported 2021-10-29 18:15

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 182.04999669

Final Restoration 2021-10-29 18:26

Line Number WL Plant

Duration (Hrs) 0.18333333

Location 103 Kilowatt Lane, Watson Lake,
YT

Explanations and Comments

Unit #1 control batteries voltage dropped too low causing unit #1 to shutdown and triggering a town wide outage. Control system isolation component replaced.

Primary Cause Equipment Failure

Secondary Cause

Outage # DIR-SP-649

Service Area 573 Watson Lake

Number of Customers Affected 288

Date/Time Reported 2021-11-03 14:00

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 912.00000096

Final Restoration 2021-11-03 17:10

Line Number 5L621

Duration (Hrs) 3.16666667

Location obert Campbell Hwy & Airport Rd

Explanations and Comments

Planned outage to replace S7243, and fix wire on X-country section

Primary Cause Scheduled Outage

Secondary Cause

Outages

Outage # DIR-SP-655

Service Area 571 Whitehorse

Number of Customers Affected 299

Date/Time Reported 2021-11-08 12:11

Sub Number 303 Shipyards

Customer-Hrs of Interruption 149.5

Final Restoration 2021-11-08 12:41

Line Number 4L311

Duration (Hrs) 0.5

Location 3168 3rd Ave.

Explanations and Comments

Bird interference on 4L311 caused breaker S1011 to trip causing an outage.

Primary Cause Foreign Interference

Secondary Cause Wildlife (Bird/Animal)

Outage # DIR-SP-660

Service Area 573 Watson Lake

Number of Customers Affected 344

Date/Time Reported 2021-11-10 13:33

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 103.2

Final Restoration 2021-11-10 13:51

Line Number 5L621

Duration (Hrs) 0.3

Location Robert Campbell hwy

Explanations and Comments

Frost outage on main Line. Patrolled, removed frost and re-energized.

Primary Cause Adverse Weather

Secondary Cause Ice/Icing

Outage # DIR-SP-663

Service Area 590 Lower Post

Number of Customers Affected 90

Date/Time Reported 2021-11-12 2:07

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 234

Final Restoration 2021-11-12 4:43

Line Number 5L619

Duration (Hrs) 2.6

Location Alaska Hwy

Explanations and Comments

Lower post line tripped off at 12:48, called at 02:07. Line was patrolled, snow was removed, nothing else found.

Primary Cause Adverse Weather

Secondary Cause Wet Snow

Outage # DIR-SP-664

Service Area 590 Lower Post

Number of Customers Affected 90

Date/Time Reported 2021-11-12 5:30

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 303.0000003

Final Restoration 2021-11-12 8:52

Line Number 5L619

Duration (Hrs) 3.36666667

Location Alaska Hwy

Explanations and Comments

Patrolled line and found nothing. Removed snow and ice from the line.

Primary Cause Adverse Weather

Secondary Cause Wet Snow

Outages

Outage # DIR-SP-671

Service Area 573 Watson Lake

Number of Customers Affected 93

Date/Time Reported 2021-11-25 10:00

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 367.35

Final Restoration 2021-11-25 13:57

Line Number 5L620

Duration (Hrs) 3.95

Location Alaska Hwy

Explanations and Comments

Planned outage to replace a pole on the Liard River crossing

Primary Cause Scheduled Outage

Secondary Cause

Outage # DIR-SP-673

Service Area 590 Lower Post

Number of Customers Affected 90

Date/Time Reported 2021-11-28 1:55

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 450

Final Restoration 2021-11-28 6:55

Line Number 5L619

Duration (Hrs) 5

Location Alaska Hwy South Watson Lake to Lower Post

Explanations and Comments

Initial call at 05:16, Parolled to Lower Post and removed frost from trouble spots. Re energized and held.

Primary Cause Adverse Weather

Secondary Cause Ice/Icing

Outage # DIR-SP-679

Service Area 571 Whitehorse

Number of Customers Affected 8,899

Date/Time Reported 2021-12-10 11:46

Sub Number S164 Takhini Switching Station

Customer-Hrs of Interruption 13065.1

Final Restoration 2021-12-10 13:30

Line Number 6L17

Duration (Hrs) 1.73333333

Location North Klondike Hwy

Explanations and Comments

Loss of supply.

Primary Cause Loss of Supply

Secondary Cause

Outage # DIR-SP-683

Service Area 576 Teslin

Number of Customers Affected 650

Date/Time Reported 2021-12-21 6:24

Sub Number 27 Teslin

Customer-Hrs of Interruption 428.75

Final Restoration 2021-12-21 7:33

Line Number 6L19

Duration (Hrs) 1.15

Location Alaska Hwy, Marsh Lake to Teslin

Explanations and Comments

S9567 tripped off in snow storm. Breaker S7352 tripped off on plant start up . Brief outage to customer in Teslin. Breaker S7352 restored with generator. Snow cleared off lines and power restored.

Primary Cause Adverse Weather

Secondary Cause Wet Snow

Outages

Outage # DIR-SP-690

Service Area 573 Watson Lake

Number of Customers Affected 108

Date/Time Reported 2021-12-29 7:28

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 242.66666632

Final Restoration 2021-12-29 9:48

Line Number 5L620

Duration (Hrs) 2.33333333

Location Upper liard

Explanations and Comments
Heavy snowfall causing an outage from OCR S7238.

Primary Cause Adverse Weather

Secondary Cause Ice/Icing

Outage # DIR-SP-692

Service Area 573 Watson Lake

Number of Customers Affected 108

Date/Time Reported 2021-12-29 12:18

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 374.40000036

Final Restoration 2021-12-29 15:46

Line Number 5L620

Duration (Hrs) 3.46666667

Location By Albert creek

Explanations and Comments
Heavy snowfall caused trees to fall into line. Outage from OCR S7238.

Primary Cause Adverse Weather

Secondary Cause Wet Snow

Outage # DIR-SP-694

Service Area 573 Watson Lake

Number of Customers Affected 108

Date/Time Reported 2021-12-30 10:30

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 54

Final Restoration 2021-12-30 11:00

Line Number 5L620

Duration (Hrs) 0.5

Location VOR tower line

Explanations and Comments
Trees on the VOR line caused outage from OCR/S7238.

Primary Cause Tree Contacts

Secondary Cause Off-ROW Tree