

October 29, 2021

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 July, August and September 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-519

Service Area 573 Watson Lake

Number of Customers Affected 344

Date/Time Reported 2021-07-02 12:35

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 372.66666552

Final Restoration 2021-07-02 13:40

Line Number 5L621

Duration (Hrs) 1.08333333

Location Cross country section.

Explanations and Comments

A tree fell on the line in the cross country section before the cottage lots. 277 customers were on 13:14, the last 68 customers were on at 13:40.

Primary Cause Tree Contacts

Secondary Cause

Outage # DIR-SP-525

Service Area 573 Watson Lake

Number of Customers Affected 344

Date/Time Reported 2021-07-09 7:42

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 212.13333448

Final Restoration 2021-07-09 8:19

Line Number 5L621

Duration (Hrs) 0.61666667

Location None found

Explanations and Comments

Breaker tripped on B to ground fault, patrolled up to fault indicators past 2 mile no flashing no cause found. Closed and held.

Primary Cause Unknown

Secondary Cause

Outage # DIR-SP-527

Service Area 585 Tagish

Number of Customers Affected 505

Date/Time Reported 2021-07-10 21:05

Sub Number 301 Carcross

Customer-Hrs of Interruption 538.66666835

Final Restoration 2021-07-10 22:09

Line Number 5L600

Duration (Hrs) 1.06666667

Location 2km before Taku Subdivison

Explanations and Comments

Tree contacted three phase line on Tagish Rd

Primary Cause Tree Contacts

Secondary Cause

Outage # DIR-SP-532

Service Area 573 Watson Lake

Number of Customers Affected 241

Date/Time Reported 2021-07-15 7:48

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 891.7

Final Restoration 2021-07-15 11:30

Line Number 5L620

Duration (Hrs) 3.7

Location Unknown

Explanations and Comments

A fault on the single phase to upper Liard caused the S7237 to trip. Opened S2163 and picked up 140 customers. Patrolled line and during the close of S2163 the switch broke. Isolated and changed out all S/B switches @S2163. Re-energized line.

Primary Cause Unknown

Secondary Cause

Outages

Outage # DIR-SP-543

Service Area 571 Whitehorse

Number of Customers Affected 163

Date/Time Reported 2021-07-20 7:45

Sub Number 21 Laberge

Customer-Hrs of Interruption 163

Final Restoration 2021-07-20 8:45

Line Number 5L645

Duration (Hrs) 1

Location Unknown

Explanations and Comments

Lightening caused VTR recloser to open. Patrolled line. No damage found. Re-energized line.

Primary Cause Lightning

Secondary Cause

Outage # DIR-SP-545

Service Area 579 Old Crow

Number of Customers Affected 210

Date/Time Reported 2021-07-21 13:05

Sub Number Old Crow Plant

Customer-Hrs of Interruption 48.9999993

Final Restoration 2021-07-21 13:19

Line Number 3L405/3L406

Duration (Hrs) 0.23333333

Location plant

Explanations and Comments

Unit 2 showed false breaker close indication to PLC, Unit 1 tried to transfer to unit 2, but unit 2 was not actually online. Indicator light circuit suspect.

Primary Cause Loss of Supply

Secondary Cause Generation Inadvertent

Outage # DIR-SP-553

Service Area 573 Watson Lake

Number of Customers Affected 385

Date/Time Reported 2021-07-22 14:08

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 186.08333205

Final Restoration 2021-07-22 14:37

Line Number 5L619

Duration (Hrs) 0.48333333

Location None found

Explanations and Comments

A to B phase indication, up to town hall riser patrolled no fault found. Re energized.

Primary Cause Unknown

Secondary Cause

Outage # DIR-SP-561

Service Area 585 Tagish

Number of Customers Affected 150

Date/Time Reported 2021-08-02 16:18

Sub Number 301 Carcross

Customer-Hrs of Interruption 450

Final Restoration 2021-08-02 19:18

Line Number 5L600

Duration (Hrs) 3

Location 22 beachfront tagish

Explanations and Comments

Tree contacted the line due to highwinds.

Primary Cause Tree Contacts

Secondary Cause Falling Tree

Outages

Outage # DIR-SP-569

Date/Time Reported 2021-08-02 17:11
Final Restoration 2021-08-02 21:13
Duration (Hrs) 4.03333333
Primary Cause Tree Contacts
Secondary Cause Falling Tree

Service Area 592 Marsh Lake
Sub Number 24 South McClintock
Line Number 5L611
Location 23 South McClintock Rd

Number of Customers Affected 100
Customer-Hrs of Interruption 403.333333

Explanations and Comments
Tree contacted the line due to high winds.

Outage # DIR-SP-562

Date/Time Reported 2021-08-02 19:30
Final Restoration 2021-08-02 20:30
Duration (Hrs) 1
Primary Cause Loss of Supply
Secondary Cause Transmission Inadvertent

Service Area 582 Ross River
Sub Number 19 Ross River
Line Number 5L618
Location Faro line

Number of Customers Affected 239
Customer-Hrs of Interruption 15.93333333

Explanations and Comments
Loss of supply from YEC during storm. Ross River Plant brought on line. Brief outage for customers.

Outage # DIR-SP-563

Date/Time Reported 2021-08-02 19:30
Final Restoration 2021-08-02 21:54
Duration (Hrs) 2.4
Primary Cause Loss of Supply
Secondary Cause Transmission Inadvertent

Service Area 572 Haines Junction
Sub Number 20 Haines Junction
Line Number 5L607, 5L608, 5L609, 5L610
Location Aishihik Line

Number of Customers Affected 546
Customer-Hrs of Interruption 38.4

Explanations and Comments
Loss of supply from YEC during storm. Haines Junction plant brought on line. Brief outage to customers.

Outage # DIR-SP-565

Date/Time Reported 2021-08-03 18:12
Final Restoration 2021-08-03 18:16
Duration (Hrs) 0.06666667
Primary Cause Loss of Supply
Secondary Cause Generation Inadvertent

Service Area 579 Old Crow
Sub Number Old Crow Plant
Line Number 3L05/3L406
Location Old Crow PV

Number of Customers Affected 210
Customer-Hrs of Interruption 14.0000007

Explanations and Comments
PV outage during off-diesel. Unplanned trip during commissioning and testing.

Outages

Outage # DIR-SP-576

Service Area 578 Beaver Creek
Sub Number Beaver Creek Plant
Line Number 3L401
Location Unknown

Number of Customers Affected 52
Customer-Hrs of Interruption 13

Date/Time Reported 2021-08-05 17:41
Final Restoration 2021-08-05 17:56
Duration (Hrs) 0.25
Primary Cause Unknown
Secondary Cause

Explanations and Comments
There was a fault on the line causing feeder 1 to open, put on local and closed feeder 1. Closed and held. Line re-energized.

Outage # DIR-SP-577

Service Area 571 Whitehorse
Sub Number S150 Whitehorse
Line Number 6L18
Location 1033 Carcross rd

Number of Customers Affected 997
Customer-Hrs of Interruption 1994

Date/Time Reported 2021-08-09 11:42
Final Restoration 2021-08-09 13:42
Duration (Hrs) 2
Primary Cause Tree Contacts
Secondary Cause Falling Tree

Explanations and Comments
Multiple trees contacted the three phase line due to high winds.

Outage # DIR-SP-581

Service Area 592 Marsh Lake
Sub Number S150 Whitehorse
Line Number 6L19
Location Tree on line near Jake's

Number of Customers Affected 385
Customer-Hrs of Interruption 144.08333373

Date/Time Reported 2021-08-10 17:05
Final Restoration 2021-08-10 18:06
Duration (Hrs) 1.01666667
Primary Cause Tree Contacts
Secondary Cause Falling Tree

Explanations and Comments
Outage to the Teslin line from Judas creek to Teslin caused by a large tree on the three phase line. Teslin generator came on after a couple minutes so those customers only saw a short outage.

Outage # DIR-SP-584

Service Area 571 Whitehorse
Sub Number 11 MacRae
Line Number 5L631
Location Wolf's den restaurant

Number of Customers Affected 50
Customer-Hrs of Interruption 125

Date/Time Reported 2021-08-13 23:58
Final Restoration 2021-08-14 2:30
Duration (Hrs) 2.5
Primary Cause Unknown
Secondary Cause

Explanations and Comments
Sectionalizer opened I patrolled . Didn't find anything. Closed in sectionalizer and it held

Outages

Outage # DIR-SP-593

Service Area 573 Watson Lake

Number of Customers Affected 344

Date/Time Reported 2021-08-15 16:27

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 143.33333448

Final Restoration 2021-08-15 16:52

Line Number 5L621

Duration (Hrs) 0.41666667

Location None found

Primary Cause Unknown

Secondary Cause

Explanations and Comments

B phase fault at sub, all other fault indicators ok. Patrolled, reenergized.

Outage # DIR-SP-597

Service Area 571 Whitehorse

Number of Customers Affected 633

Date/Time Reported 2021-08-17 13:30

Sub Number 11 MacRae

Customer-Hrs of Interruption 4220.00000211

Final Restoration 2021-08-17 20:10

Line Number 5L631

Duration (Hrs) 6.66666667

Location Corner of Johnston and Scoyt bay Rd

Primary Cause Human Element

Secondary Cause Other Human Element

Explanations and Comments

Third party contractor struck pole with grader, breaking it in two.

Outage # DIR-SP-590

Service Area 592 Marsh Lake

Number of Customers Affected 60

Date/Time Reported 2021-08-17 15:00

Sub Number 24 Marsh Lake

Customer-Hrs of Interruption 315

Final Restoration 2021-08-17 20:15

Line Number 5L612

Duration (Hrs) 5.25

Location Nolan rd

Primary Cause Equipment Failure

Secondary Cause Defective Equipment/Material

Explanations and Comments

Pole fire due to faulty switch causing it to track and burn pole.

Outage # DIR-SP-592

Service Area 573 Watson Lake

Number of Customers Affected 80

Date/Time Reported 2021-08-18 8:35

Sub Number 31 Watson Lake

Customer-Hrs of Interruption 160

Final Restoration 2021-08-18 10:35

Line Number 5L620

Duration (Hrs) 2

Location 56 Albert creek road

Primary Cause Foreign Interference

Secondary Cause Other Utilities

Explanations and Comments

A raven Blew 3 fuses to the main tap off. 2 tap off barrels failed to open. Will look into coordination in upper Liard.

Outages

Outage # DIR-SP-603

Date/Time Reported 2021-08-21 1:00

Final Restoration 2021-08-21 6:15

Duration (Hrs) 5.25

Primary Cause Equipment Failure

Secondary Cause

Service Area 592 Marsh Lake

Sub Number S150 Whitehorse

Line Number 6L19

Location

Number of Customers Affected 385

Customer-Hrs of Interruption 2021.25

Explanations and Comments

Broken switch found at Brooks Brook.

Outage # DIR-SP-602

Date/Time Reported 2021-08-21 3:28

Final Restoration 2021-08-21 8:34

Duration (Hrs) 5.1

Primary Cause Equipment Failure

Secondary Cause Mechanical Failure

Service Area 571 Whitehorse

Sub Number 35 Logan

Line Number 5L632

Location Behind 113 Finch

Number of Customers Affected 125

Customer-Hrs of Interruption 637.5

Explanations and Comments

Porcelain switch tracked broke causing pole fire burning cross arm and pole. Pole will need to be replaced at a later date

Outage # DIR-SP-604

Date/Time Reported 2021-08-21 13:00

Final Restoration 2021-08-21 16:15

Duration (Hrs) 3.25

Primary Cause Equipment Failure

Secondary Cause Mechanical Failure

Service Area 592 Marsh Lake

Sub Number S150 Whitehorse

Line Number 6L19

Location

Number of Customers Affected 385

Customer-Hrs of Interruption 1251.25

Explanations and Comments

Broken switch past jakes corner

Outage # DIR-SP-610

Date/Time Reported 2021-09-03 16:26

Final Restoration 2021-09-04 0:07

Duration (Hrs) 7.67

Primary Cause Tree Contacts

Secondary Cause Falling Tree

Service Area 582 Ross River

Sub Number 19 Ross River

Line Number 5L618

Location Etzel crescent

Number of Customers Affected 360

Customer-Hrs of Interruption 2761.2

Explanations and Comments

Tree broke wire off 17:00 sept 3 on 00:07 sept 4

Outages

Outage # DIR-SP-614

Service Area 571 Whitehorse

Number of Customers Affected 297

Date/Time Reported 2021-09-06 10:08

Sub Number 303 Shipyards

Customer-Hrs of Interruption 242.55000099

Final Restoration 2021-09-06 10:57

Line Number 4L311

Duration (Hrs) 0.81666667

Location

Primary Cause Unknown

Secondary Cause

Explanations and Comments

Breaker opened. Patrolled. Could not find cause. Split load and reenergized and everything held

Outage # DIR-SP-616

Service Area 571 Whitehorse

Number of Customers Affected 2,845

Date/Time Reported 2021-09-08 17:20

Sub Number S164 Takhini Switching Station

Customer-Hrs of Interruption 1363.08333333

Final Restoration 2021-09-08 17:50

Line Number 6L17

Duration (Hrs) 0.5

Location

Primary Cause Loss of Supply

Secondary Cause

Explanations and Comments

YEC lost Aishihik units. Opened S164, AEY breakers and began restoration

Outage # DIR-SP-619

Service Area

Number of Customers Affected 119

Date/Time Reported 2021-09-13 3:51

Sub Number Beaver Creek Plant

Customer-Hrs of Interruption 416.5

Final Restoration 2021-09-13 7:22

Line Number 3L400, 3L401

Duration (Hrs) 3.5

Location Beaver Creek Plant

Primary Cause Equipment Failure

Secondary Cause

Explanations and Comments

Fuel line vibrated loose (BC2) and caused a small drip. Spill was contained within the plant. Volume was about 5 litres. Alarm caused unit breaker to trip

Outage # DIR-SP-631

Service Area 579 Old Crow

Number of Customers Affected 210

Date/Time Reported 2021-09-21 20:38

Sub Number Old Crow Plant

Customer-Hrs of Interruption 10.5

Final Restoration 2021-09-21 20:41

Line Number 3L405, 3L406

Duration (Hrs) 0.05

Location Old Crow Community

Primary Cause Loss of Supply

Secondary Cause Generation Inadvertent

Explanations and Comments

Outage during diesel off. MGC logic failure.