

ATCO Electric

YUKON

January 18, 2016

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

Attention: Deana Lemke, Yukon Utilities Board Executive Secretary

Dear Deana:

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 2015. 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 633-7080, if you require any additional information or clarification.

Yours Sincerely,

ATCO Electric Yukon



Jay Massie,
Manager

JM:cm
Encl.

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Board Report (>50 Customers)

Service Area 592 Marsh Lake

Date Reported 2015-10-08
 Outage Number MPJ00140
 Planned Unplanned
 Sub Number S150
 Line Number 5L622
 Location Marsh Lake

Time Reported 18:42
 Time Interrupted 18:40
 Time Restored 22:31
 Primary Cause 8 Equipment Failure
 CEA Coding Defective Equipment

of Customers 1363
 Avg. Customer Duration 3:51

Explanations and Comments
 Outage occurred when insulators on the main line failed.

Service Area 575 Carmacks

Date Reported 2015-10-08
 Outage Number MPJ00141A
 Planned Unplanned
 Sub Number
 Line Number L170
 Location Carmacks

Time Reported 19:18
 Time Interrupted 19:15
 Time Restored 19:18
 Primary Cause 22 YEC Generation/Transmission
 CEA Coding Loss of Supply - Yukon Energy

of Customers 311
 Avg. Customer Duration :03

Explanations and Comments
 Loss of Supply from YEC. Brief outage to Carmacks until diesel back up came on line.

Service Area 582 Ross River

Date Reported 2015-10-08
 Outage Number MPJ00141
 Planned Unplanned
 Sub Number
 Line Number L170
 Location Ross River

Time Reported 19:18
 Time Interrupted 19:15
 Time Restored 19:18
 Primary Cause 22 YEC Generation/Transmission
 CEA Coding Loss of Supply - Yukon Energy

of Customers 230
 Avg. Customer Duration :03

Explanations and Comments
 Loss of supply from YEC. Brief outage to Ross River until diesel backup came on line.

Service Area 576 Teslin

Date Reported 2015-10-08
 Outage Number MPJ00140A
 Planned Unplanned
 Sub Number S150
 Line Number 5L622
 Location Teslin

Time Reported 18:42
 Time Interrupted 18:40
 Time Restored 18:42
 Primary Cause 8 Equipment Failure
 CEA Coding Defective Equipment

of Customers 364
 Avg. Customer Duration 2:50

Explanations and Comments
 See DIR#MPJ00140. Outage occurred when insulators failed on the main line. Village of Teslin had brief 2 min. outage until back up diesel came on line. Remaining 100 customers on Alaska Hwy S were off for approx. 3 hours.

Board Report (>50 Customers)

Service Area 571 Whitehorse

Date Reported 2015-10-23
 Outage Number RSM00380
 Planned Unplanned
 Sub Number 6
 Line Number 4L304
 Location Wh-Porter Creek

Time Reported 9:50
 Time Interrupted 9:50
 Time Restored 10:14
 Primary Cause 6 Vehicles
 CEA Coding Foreign Interference

of Customers 775
 Avg. Customer Duration .24

Explanations and Comments

Truck with high load contacted communication line causing outage to breaker S9403. A hot tap was damaged as a result. Line was repaired, re energized.

Service Area 592 Marsh Lake

Date Reported 2015-10-26
 Outage Number RSM00381B
 Planned Unplanned
 Sub Number S150-52-22
 Line Number 5L622
 Location Marsh Lake

Time Reported 9:45
 Time Interrupted 9:45
 Time Restored 10:46
 Primary Cause 14 Unknown
 CEA Coding Unknown/Other

of Customers 455
 Avg. Customer Duration 1.01

Explanations and Comments

Breaker S6840 tripped off line, patrolled no cause found. See DIR#RSM00381.

Service Area 576 Teslin

Date Reported 2015-10-26
 Outage Number RSM00381A
 Planned Unplanned
 Sub Number S150
 Line Number 5L622
 Location Teslin

Time Reported 9:45
 Time Interrupted 9:45
 Time Restored 9:48
 Primary Cause 14 Unknown
 CEA Coding Unknown/Other

of Customers 364
 Avg. Customer Duration .18

Explanations and Comments

Breaker S6840 tripped off line, patrolled no cause found. Village of Teslin had brief 3 min.outage until diesel back up came on line. Remaining 100 customers along the Alaska Hwy S were off for approx. 1 hour. See DIR#RSM00381

Service Area 571 Whitehorse

Date Reported 2015-10-26
 Outage Number RSM00381
 Planned Unplanned
 Sub Number S150-52-22
 Line Number 5L622
 Location Wh-Alaska Hwy So

Time Reported 9:45
 Time Interrupted 9:45
 Time Restored 10:48
 Primary Cause 14 Unknown
 CEA Coding Unknown/Other

of Customers 819
 Avg. Customer Duration 1:03

Explanations and Comments

Breaker S6840 tripped off line, patrolled no cause found for fault. Re energized, restored customers

Board Report (>50 Customers)

Service Area 573 Watson Lake

Date Reported 2015-11-04
 Outage Number CGK00020
 Planned Unplanned
 Sub Number 31
 Line Number 5L621
 Location Watson lake

Time Reported 12:15
 Time Interrupted 12:15
 Time Restored 12:20
 Primary Cause 14 Unknown
 CEA Coding Unknown/Other

of Customers 344
 Avg. Customer Duration :05

Explanations and Comments

Watson Lake feeder breaker opened causing brief outage, no cause found at the time

Service Area 571 Whitehorse

Date Reported 2015-11-11
 Outage Number MWG00221
 Planned Unplanned
 Sub Number 28
 Line Number 4L306
 Location Wh-Range Road

Time Reported 11:45
 Time Interrupted 11:43
 Time Restored 15:23
 Primary Cause 6 Vehicles
 CEA Coding Foreign Interference

of Customers 65
 Avg. Customer Duration 3:40

Explanations and Comments

Vehicle struck pole on College Dr. Pole was replaced with new riser, power restored.

Service Area 576 Teslin

Date Reported 2015-11-12
 Outage Number RSM00386
 Planned Unplanned
 Sub Number S150
 Line Number 5L622
 Location Teslin

Time Reported 8:30
 Time Interrupted 15:59
 Time Restored 17:54
 Primary Cause 6 Vehicles
 CEA Coding Foreign Interference

of Customers 100
 Avg. Customer Duration 1:55

Explanations and Comments

Truck lost control & ran into 34.5kV pole with 14.4kV under strung & tap. Accident was reported to RCMP

Service Area 575 Carmacks

Date Reported 2015-11-13
 Outage Number RSM00387A
 Planned Unplanned
 Sub Number
 Line Number L170
 Location Carmacks

Time Reported 8:30
 Time Interrupted 8:30
 Time Restored 8:37
 Primary Cause 22 YEC Generation/Transmission
 CEA Coding Loss of Supply - Yukon Energy

of Customers 314
 Avg. Customer Duration :07

Explanations and Comments

Loss of supply from YEC caused brief outage to Carmacks until diesel back up came on line

Board Report (>50 Customers)

Service Area 582 Ross River

Date Reported 2015-11-13
 Outage Number RSM00387
 Planned Unplanned
 Sub Number
 Line Number L170
 Location Ross River

Time Reported 8:30
 Time Interrupted 8:30
 Time Restored 8:33

Primary Cause 22 YEC Generation/Transmission
 CEA Coding Loss of Supply - Yukon Energy

of Customers 230
 Avg. Customer Duration :03

Explanations and Comments

Loss of Supply from YEC caused brief outage to Ross River until back up generation came on line

Service Area 571 Whitehorse

Date Reported 2015-11-25
 Outage Number RJZ00477
 Planned Unplanned
 Sub Number 303
 Line Number 10L
 Location Wh-Downtown

Time Reported 17:50
 Time Interrupted 17:50
 Time Restored 18:31

Primary Cause 8 Equipment Failure
 CEA Coding Defective Equipment

of Customers 1743
 Avg. Customer Duration :47

Explanations and Comments

Faulty insulator cap on breaker S1034 caused breaker S150-52-21 to open. Customers power restored in stages

Service Area 572 Haines Junction

Date Reported 2015-11-26
 Outage Number WPC.00032
 Planned Unplanned
 Sub Number 20
 Line Number 5L607
 Location Haines Junction

Time Reported 8:17
 Time Interrupted 8:17
 Time Restored 9:42

Primary Cause 2 Trees
 CEA Coding Trees

of Customers 410
 Avg. Customer Duration 2:20

Explanations and Comments

Extreme winds caused a tree to contact and bring down the center phase, on the primary line. Tree was removed, wire repaired and customers power restored

Service Area 579 Old Crow

Date Reported 2015-12-02
 Outage Number MWG00225
 Planned Unplanned
 Sub Number
 Line Number 3L405
 Location Old Crow

Time Reported 16:40
 Time Interrupted 16:37
 Time Restored 16:46

Primary Cause 21 YECL Plant Outage
 CEA Coding Loss of Supply - Yukon Electrical

of Customers 218
 Avg. Customer Duration :09

Explanations and Comments

While running the new plant Unit #4 intake hose separated from motor causing an automatic shutdown. Restarted Units #1 & #2 restoring power to the community after a brief outage

Board Report (>50 Customers)



YUKON

Service Area 573 Watson Lake

Date Reported 2015-12-18
 Outage Number CGK00024
 Planned Unplanned
 Sub Number 31
 Line Number 51621
 Location Watson lake

Time Reported 8:40
 Time Interrupted 8:40
 Time Restored 8:43
 Primary Cause 4 Icing
 CEA Coding Adverse Weather

of Customers 344
 Avg. Customer Duration :03

Explanations and Comments
 Breaker S7242 tripped open due to heavy frost causing brief outage to customers in Watson Lake

Service Area 590 Lower Post

Date Reported 2015-12-20
 Outage Number CGK00025
 Planned Unplanned
 Sub Number 31
 Line Number 51620
 Location Lower Post

Time Reported 7:30
 Time Interrupted 7:30
 Time Restored 8:11
 Primary Cause 4 Icing
 CEA Coding Adverse Weather

of Customers 90
 Avg. Customer Duration :41

Explanations and Comments
 Breaker S2989 tripped open due to heavy frost causing outage to Lower Post

Service Area 580 Keno City

Date Reported 2015-12-31
 Outage Number MPJ00159
 Planned Unplanned
 Sub Number 257
 Line Number
 Location Keno City

Time Reported 14:10
 Time Interrupted 14:06
 Time Restored 15:15
 Primary Cause 22 YEC Generation/Transmission
 CEA Coding Loss of Supply - Yukon Energy

of Customers 54
 Avg. Customer Duration 1:09

Explanations and Comments
 Loss of Supply from YEC caused outage to Keno, back up diesel generator was used to restore power, until cause of outage was found & isolated. Back on the grid at 1202hrs on January 1, 2016.