

# ATCO Electric

## YUKON

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April 13, 2015

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

Attention: Deana Lemke, Yukon Utilities Board Executive Assistant

Dear Deana:

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 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 633-7003, if you require any additional information or clarification.

Yours Sincerely,

ATCO Electric Yukon



For Dwight Redden,  
General Manager

DR:cm  
Encl.

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# Board Report (>50 Customers)



Service Area 571 Whitehorse

Date Reported 2015-01-01  
 Time Reported 8:50:00 AM  
 Outage Number MPJ00100  
 Time Interrupted 8:47:00 AM  
 Planned Unplanned  
 Time Restored 9:14:00 AM  
 Sub Number 150  
 Primary Cause 14 Unknown  
 Line Number 9L  
 CEA Coding Unknown/Other  
 Location Wh-South Klondike

# of Customers 500  
 Avg. Customer Duration 0.45  
**Explanations and Comments**  
 Breaker S6839 feeding S Klondike Hwy, Carcross, Tagish Rd & Tagish opened, received a call from YEC SCC, attempted to pick up via SCADA control, line held, power restored. No cause found at this time.

Service Area 576 Teslin

Date Reported 2015-01-01  
 Time Reported 9:10:00 AM  
 Outage Number MPJ00101  
 Time Interrupted 9:10:00 AM  
 Planned Unplanned  
 Time Restored 9:17:00 AM  
 Sub Number S150  
 Primary Cause 4 Icing  
 Line Number 9L  
 CEA Coding Adverse Weather  
 Location Teslin

# of Customers 405  
 Avg. Customer Duration 3.64  
**Explanations and Comments**  
 Frost causing outages from breaker S9567 Judas Creek to Teslin. Unable to start the back up generation. Sectionalized and removed frost from the lines, picked up areas in sections.

Service Area 580 Keno City

Date Reported 2015-01-11  
 Time Reported 6:04:00 PM  
 Outage Number RSM00306  
 Time Interrupted 4:16:00 AM  
 Planned Unplanned  
 Time Restored 4:17:00 AM  
 Sub Number S257  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number 3L403  
 CEA Coding Loss of Supply - Yukon Energy  
 Location Keno City

# of Customers 56  
 Avg. Customer Duration 0.02  
**Explanations and Comments**  
 Loss of Supply from YEC caused brief outages to Keno City

Service Area 582 Ross River

Date Reported 2015-01-13  
 Time Reported 11:02:00 PM  
 Outage Number RSM00307  
 Time Interrupted 11:02:00 PM  
 Planned Unplanned  
 Time Restored 11:04:00 PM  
 Sub Number 19  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number 5L616  
 CEA Coding Loss of Supply - Yukon Energy  
 Location Ross River

# of Customers 230  
 Avg. Customer Duration 0.03  
**Explanations and Comments**  
 YEC loss of supply to Ross River caused a brief outage until back up generation came on line

Friday, April 10, 2015

Report From 2015-01-01 to 2015-03-31

# Board Report (>50 Customers)



Service Area 580 Keno City

Date Reported 2015-01-15  
 Time Reported 8:17:00 PM  
 Outage Number MW/G00146  
 Time Interrupted 8:17:00 PM  
 Planned Unplanned  
 Time Restored 8:22:00 PM  
 Sub Number  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number L250  
 CEA Coding Loss of Supply - Yukon Energy  
 Location Keno City

# of Customers 59  
 Avg. Customer Duration 0.08  
**Explanations and Comments**  
 YEC loss of supply, line to Keno tripped causing brief outage to Keno

Service Area 580 Keno City

Date Reported 2015-01-16  
 Time Reported 1:22:00 AM  
 Outage Number MW/G00147  
 Time Interrupted 1:22:00 AM  
 Planned Unplanned  
 Time Restored 9:00:00 AM  
 Sub Number  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number L250  
 CEA Coding Loss of Supply - Yukon Energy  
 Location Keno City

# of Customers 59  
 Avg. Customer Duration 7.63  
**Explanations and Comments**  
 YEC loss of supply, line to Keno tripped causing outage.

Service Area 580 Keno City

Date Reported 2015-01-23  
 Time Reported 9:15:00 AM  
 Outage Number RSM00310  
 Time Interrupted 9:15:00 AM  
 Planned Unplanned  
 Time Restored 10:46:00 AM  
 Sub Number  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number 3L403  
 CEA Coding Loss of Supply  
 Location Keno City

# of Customers 54  
 Avg. Customer Duration 1.52  
**Explanations and Comments**  
 YEC loss of supply to Keno when L250 tripped off line

Service Area 580 Keno City

Date Reported 2015-01-23  
 Time Reported 12:08:00 PM  
 Outage Number RSM00311  
 Time Interrupted 12:08:00 PM  
 Planned Unplanned  
 Time Restored 5:45:00 PM  
 Sub Number S257  
 Primary Cause 22 YEC Generation/Transmission  
 Line Number 3L403  
 CEA Coding Loss of Supply - Yukon Energy  
 Location Keno City

# of Customers 54  
 Avg. Customer Duration 5.62  
**Explanations and Comments**  
 YEC loss of supply, L250 tripped off line

Friday, April 10, 2015

Report From 2015-01-01 to 2015-03-31

# Board Report (>50 Customers)



Service Area 571 Whitehorse

Date Reported 2015-01-29  
 Outage Number RSM00312  
 Planned Unplanned  
 Sub Number 17  
 Line Number 5L624  
 Location Wh-Multiple Areas

Time Reported 1:25:00 PM  
 Time Interrupted 1:25:00 PM  
 Time Restored 2:04:00 PM

Primary Cause 8 Equipment Failure  
 CEA Coding Defective Equipment

# of Customers 1100  
 Avg. Customer Duration 1.06

**Explanations and Comments**  
 Breaker S9815 tripped off on overcurrent, cause is faulted cable or transformer, sectionalized and restored power. See RSM00313 faulty cable found & repaired

Service Area 571 Whitehorse

Date Reported 2015-01-30  
 Outage Number RSM00313  
 Planned Unplanned  
 Sub Number 17  
 Line Number 5L624  
 Location Wh-Multiple Areas

Time Reported 10:54:00 AM  
 Time Interrupted 10:54:00 AM  
 Time Restored 11:14:00 AM

Primary Cause 8 Equipment Failure  
 CEA Coding Defective Equipment

# of Customers 1100  
 Avg. Customer Duration 0.33

**Explanations and Comments**  
 Breaker S9815 tripped, tested underground cable at S8217, cable found to be faulty

Service Area 579 Old Crow

Date Reported 2015-02-07  
 Outage Number MP100110  
 Planned Unplanned  
 Sub Number  
 Line Number 3L405  
 Location Old Crow

Time Reported 2:40:00 AM  
 Time Interrupted 2:00:00 AM  
 Time Restored 4:10:00 AM

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

# of Customers 203  
 Avg. Customer Duration 2.64

**Explanations and Comments**  
 Outage to the Village of Old Crow when Unit #1 went off line. Restored feeders in stages without Unit #1.

Service Area 571 Whitehorse

Date Reported 2015-02-09  
 Outage Number RJZ00445  
 Planned Unplanned  
 Sub Number 303  
 Line Number 4L313  
 Location Wh-Downtown

Time Reported 1:09:00 PM  
 Time Interrupted 1:09:00 PM  
 Time Restored 3:43:00 PM

Primary Cause 6 Vehicles  
 CEA Coding Foreign Interference

# of Customers 1646  
 Avg. Customer Duration 3.08

**Explanations and Comments**  
 Vehicle struck and sheered off a 3 phase power pole, outages taken to remove and replace pole, all customers restored by 2030hrs. Another outage will be required to complete work.

Friday, April 10, 2015

Report From 2015-01-01 to 2015-03-31

# Board Report (>50 Customers)



Service Area 577 Destruction Bay

Date Reported 2015-02-10  
 Time Reported 6:15:00 PM  
 Outage Number RTW00301  
 Time Interrupted 6:00:00 PM  
 Planned Unplanned  
 Time Restored 6:05:00 PM  
 Sub Number 20  
 Primary Cause 21 YECL Plant Outage  
 Line Number 4L300  
 CEA Coding Loss of Supply - Yukon Electrical  
 Location Burwash

# of Customers 177  
 Avg. Customer Duration 0.17  
**Explanations and Comments**  
 Unit #1 went off line due to voltage regulator, Unit #2 brought on line, restored Destruction Bay, standby unit brought on line restoring Burwash Landing

Service Area 572 Haines Junction

Date Reported 2015-02-24  
 Time Reported 11:00:00 AM  
 Outage Number RTW00303  
 Time Interrupted 10:55:00 AM  
 Planned Unplanned  
 Time Restored 12:20:00 PM  
 Sub Number 20  
 Primary Cause 14 Unknown  
 Line Number 5L609  
 CEA Coding Unknown/Other  
 Location Haines Junction

# of Customers 328  
 Avg. Customer Duration 1.42  
**Explanations and Comments**  
 Outage to part of Haines Junction, SCADA control did not work, manually closed Breaker S8343 restoring power, no cause found at the time

Service Area 573 Watson Lake

Date Reported 2015-03-05  
 Time Reported 4:28:00 PM  
 Outage Number SDT00022  
 Time Interrupted 4:26:00 PM  
 Planned Unplanned  
 Time Restored 4:30:00 PM  
 Sub Number 31  
 Primary Cause 21 YECL Plant Outage  
 Line Number 5L621  
 CEA Coding Loss of Supply - Yukon Electrical  
 Location Watson lake

# of Customers 130  
 Avg. Customer Duration 0.07  
**Explanations and Comments**  
 Breaker S7242 tripped off line, patrolled, no cause found at this time.

Service Area 579 Old Crow

Date Reported 2015-03-16  
 Time Reported 8:14:00 AM  
 Outage Number PTM00136  
 Time Interrupted 8:14:00 AM  
 Planned Unplanned  
 Time Restored 8:17:00 AM  
 Sub Number  
 Primary Cause 21 YECL Plant Outage  
 Line Number  
 CEA Coding Loss of Supply - Yukon Electrical  
 Location Old Crow

# of Customers 197  
 Avg. Customer Duration 0.05  
**Explanations and Comments**  
 Feeder opened on undervoltage when Unit #1 shut down, DC control voltage dropped

Friday, April 10, 2015

Report From 2015-01-01 to 2015-03-31

# Board Report (>50 Customers)



Service Area 579 Old Crow

Date Reported 2015-03-17 Time Reported 8:45:00 PM  
Outage Number GTQ00001 Time Interrupted 8:45:00 PM  
Planned Unplanned Time Restored 8:47:00 PM  
Sub Number Primary Cause 21 YECL Plant Outage  
Line Number CEA Coding Loss of Supply - Yukon Electrical  
Location Old Crow

# of Customers 197  
Avg. Customer Duration 0.03

**Explanations and Comments**  
Feeder opened on undervoltage when Unit #1 shut down, DC control voltage dropped