



The Yukon Electrical Company Limited
An *ATCO* Company

April 19, 2013

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 January, February and March 2013. 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,

THE YUKON ELECTRICAL COMPANY LIMITED
An *ATCO* Company

Dwight Redden,
General Manager, Yukon Electrical Company Limited

DR:cm
Encl.

YUB\yubout13

Board Report (>50 custs)



Service Area

Date Reported 2013-01-14 Time Reported 22:52
 Outage Number SMB00076 Time Interrupted 22:50
 Planned Unplanned Time Restored 23:59
 Sub Number S150 Primary Cause 2 Trees
 Line Number 9L CEA Coding Trees
 Location Whitehorse-Carcross Road

of Customers 722
 Avg. Customer Duration 1.15

Explanations Comments
 Breaker opened, attempted reclose, breaker would not hold. Mt Lorne Fire Dept called in, tree on the line on fire. Removed tree & re energized customers

Service Area

Date Reported 2013-04-16 Time Reported 8:47
 Outage Number SMB00081 Time Interrupted 8:45
 Planned Unplanned Time Restored 9:01
 Sub Number 303 Primary Cause 6 Vehicles
 Line Number 4L311 CEA Coding Foreign Interference
 Location Whitehorse-Downtown

of Customers 644
 Avg. Customer Duration 0.33

Explanations Comments
 Garbage truck struck power pole causing blown fuses & breaker outage. Restored power to majority of customers, replaced the damaged pole restoring power to last few customers.

Service Area

Date Reported 2013-01-14 Time Reported 19:55
 Outage Number MWG00037 Time Interrupted 19:55
 Planned Unplanned Time Restored 20:10
 Sub Number 31 Primary Cause 3 Wind
 Line Number 5L620 CEA Coding Adverse Weather
 Location Watson Lake

of Customers 200
 Avg. Customer Duration 0.25

Explanations Comments
 Substation breaker tripped due to wet snow and wind. Patrolled the lines finding heavy wet snow load, closed the breaker and restored power.

Board Report (>50 custs)



Service Area

Date Reported 2013-02-21 Time Reported 9:40
 Outage Number RGG00067 Time Interrupted 9:40
 Planned Unplanned Time Restored 9:43
 Sub Number 31 Primary Cause 8 Equipment Failure
 Line Number 5L620 CEA Coding Defective Equipment
 Location Watson Lake

of Customers 500
 Avg. Customer Duration 0.05

Explanations Comments
 Unit #2 shut down, possible cause was battery charger had failed.

Service Area

Date Reported 2013-01-07 Time Reported 12:35
 Outage Number SMB00075 Time Interrupted 12:32
 Planned Unplanned Time Restored 12:37
 Sub Number S150 Primary Cause 4 Icing
 Line Number 5L622 CEA Coding Adverse Weather
 Location

of Customers 367
 Avg. Customer Duration 0.09

Explanations Comments
 YECL lost S150-52-22 due to heavy snow and frost, Village of Teslin restored with back up diesel plant after a brief 5 minute outage, balance of the customers restored via SCADA control. Servicemen patrolled lines.

Service Area

Date Reported 2013-01-17 Time Reported 2:40
 Outage Number AMI00143 Time Interrupted 2:30
 Planned Unplanned Time Restored 2:35
 Sub Number S150 Primary Cause 4 Icing
 Line Number 9L CEA Coding Adverse Weather
 Location Teslin

of Customers 353
 Avg. Customer Duration 0.78

Explanations Comments
 S9567 line recloser opened due to heavy snow falling from the line causing a phase to phase fault. Village of Teslin was restored with back up diesel after a brief 5 minute outage.

Board Report (>50 custs)



Service Area

Date Reported 2013-04-02 Time Reported 6:15 # of Customers 353
 Outage Number RJZ00316 Time Interrupted 2:43 Avg. Customer Duration 1.06

Planned Unplanned
 Sub Number S150 Primary Cause 4 Icing
 Line Number 5L622 CEA Coding Adverse Weather
 Location

Explanations Comments
 S9562 tripped on phase to phase fault due to heavy snow loading. Back up diesel generator picked up Village of Teslin after a brief outage.

Service Area

Date Reported 2013-03-20 Time Reported 19:55 # of Customers 152
 Outage Number PTM00124 Time Interrupted 19:55 Avg. Customer Duration 0.03

Planned Unplanned
 Sub Number Primary Cause 21 YECL Plant Outage
 Line Number 0L CEA Coding Loss of Supply - Yukon Electrical
 Location

Explanations Comments
 Unit #2 on line, feeder trips on underfrequency. PLC syncs on unit #1 & #2 and closes feeder. No cause found at the time.

Service Area

Date Reported 2013-02-25 Time Reported 7:41 # of Customers 378
 Outage Number PTM00121 Time Interrupted 7:41 Avg. Customer Duration 0.03

Planned Unplanned
 Sub Number Primary Cause 21 YECL Plant Outage
 Line Number 0L CEA Coding Loss of Supply - Yukon Electrical
 Location Old Crow

Explanations Comments
 Unit #2 unable to carry the load above 350kW . Cause unknown at the time.

Board Report (>50 custs)



Service Area

of Customers 189
Avg. Customer Duration 5.57

Date Reported 2013-02-26 Time Reported 8:11
 Outage Number PTM00122 Time Interrupted 8:11
 Planned Unplanned Time Restored 13:45
 Sub Number Primary Cause 21 YECL Plant Outage
 Line Number 0L CEA Coding Loss of Supply - Yukon Electrical
 Location Old Crow

Explanations Comments
 Unit #2 Generator unable to carry load above 350kW believed loose bus fuse caused under voltage protection to operate.

Service Area

of Customers 189
Avg. Customer Duration 0.03

Date Reported 2013-02-27 Time Reported 7:39
 Outage Number PTM00123 Time Interrupted 7:39
 Planned Unplanned Time Restored 7:41
 Sub Number Primary Cause 21 YECL Plant Outage
 Line Number 0L CEA Coding Loss of Supply - Yukon Electrical
 Location Old Crow

Explanations Comments
 Unit #2 unable to carry load above 350kW due to worn fuel rack linkage.

Service Area

of Customers 199
Avg. Customer Duration 0.40

Date Reported 2013-04-16 Time Reported 16:12
 Outage Number PTM00125 Time Interrupted 16:12
 Planned Unplanned Time Restored 16:36
 Sub Number Primary Cause 21 YECL Plant Outage
 Line Number 0L CEA Coding Loss of Supply - Yukon Electrical
 Location Old Crow

Explanations Comments
 Unit #1 developed a coolant leak which activated the fuel spill float shutting down the plant.

Board Report (>50 custs)



Service Area

Date Reported 2013-01-12 Time Reported 20:21 # of Customers 224
 Outage Number DJC00097 Time Interrupted 20:21 Avg. Customer Duration 0.16

Planned Unplanned
 Sub Number 257 Primary Cause 4 Icing
 Line Number L250 CEA Coding Adverse Weather

Location

Explanations Comments

Keno City affected 4 times with brief outage due to snow on the lines. Retoration each time by YEC SCC.

Service Area

Date Reported 2013-01-31 Time Reported 22:22 # of Customers 56
 Outage Number RSM00199 Time Interrupted 21:50 Avg. Customer Duration 2.83

Planned Unplanned
 Sub Number 257 Primary Cause 22 YEC Generation/Transm
 Line Number 3L403 CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

YEC loss of supply to Keno City when 69kVA transformer fuse blew. No known cause at the time.

Service Area

Date Reported 2013-03-26 Time Reported 6:20 # of Customers 56
 Outage Number RSM00201 Time Interrupted 6:16 Avg. Customer Duration 3.93

Planned Unplanned
 Sub Number Primary Cause 22 YEC Generation/Transm
 Line Number L250 CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

Yukon Energy Corporation had a crossarm burn on their L250 line causing an outage to Keno. Power restored via back up diesel generator, until line was repaired

Board Report (>50 custs)



Service Area

Date Reported 2013-04-01 Time Reported 21:30 # of Customers 384
Outage Number MP100028 Time Interrupted 21:30 Avg. Customer Duration 1.89
Planned Unplanned Time Restored 1:11
Sub Number 24 Primary Cause 8 Equipment Failure
Line Number 0L CEA Coding Defective Equipment
Location Marsh Lake

Explanations Comments
Line equipment failed during a snow storm, crew replaced equipment and restored power to the area in sections.