



The Yukon Electrical Company Limited
An **ATCO** Company

July 13, 2012

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 April, May and June, 2012. 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

Dwight Redden,
General Manager

DR:cm
Encl.

Board Report (>50 custs)



Service Area 571 Whitehorse

Date Reported 2012-05-12 **Time Reported** 14:30
Outage Number DJC00081 **Time Interrupted** 14:18
Planned Unplanned **Time Restored** 16:30
Sub Number **Primary Cause** 2 Trees
Line Number 9L **CEA Coding** Trees
Location Whitehorse-Alaska Hwy South

of Customers 200
Avg. Customer Duration 2.20

Explanations Comments
 Tree on the line caused outage from Judas Cr to Teslin

Service Area 571 Whitehorse

Date Reported 2012-05-16 **Time Reported** 9:00
Outage Number RJZ00294 **Time Interrupted** 9:00
Planned Unplanned **Time Restored** 11:17
Sub Number S150 **Primary Cause** 4 Icing
Line Number 9L **CEA Coding** Defective Equipment
Location Whitehorse-Alaska Hwy South

of Customers 91
Avg. Customer Duration 2.28

Explanations Comments
 Pole top insulator failed at Lewes River Bridge due to heavy rain and snow causing outage to customers along the Alaska Highway South to Teslin

Service Area 571 Whitehorse

Date Reported 2012-05-24 **Time Reported** 18:40
Outage Number THB00272 **Time Interrupted** 18:40
Planned Unplanned **Time Restored** 19:51
Sub Number 21 **Primary Cause** 2 Trees
Line Number 5L628 **CEA Coding** Trees
Location Whitehorse-Crestview

of Customers 50
Avg. Customer Duration 1.18

Explanations Comments
 Trees interfered with primary line, isolated line, brushed and re energized.

Board Report (>50 custs)



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| Service Area | 571 Whitehorse |
| Date Reported | 2012-05-25 |
| Time Reported | 13:45 |
| Outage Number | SMB00048 |
| Time Interrupted | 13:45 |
| Planned | Unplanned |
| Time Restored | 14:10 |
| Primary Cause | 6 Vehicles |
| CEA Coding | Foreign Interference |
| Sub Number | 5 |
| Line Number | 4L315 |
| Location | Whitehorse-Marwell |
| # of Customers | 226 |
| Avg. Customer Duration | 0.98 |
| Explanations Comments Power outage caused by line contact, partial restoration of customers until lines repaired. No injuries. | |

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|---|-----------------------|
| Service Area | 571 Whitehorse |
| Date Reported | 2012-05-28 |
| Time Reported | 6:45 |
| Outage Number | THB00273 |
| Time Interrupted | 6:48 |
| Planned | Unplanned |
| Time Restored | 9:05 |
| Primary Cause | 11 Human Interference |
| CEA Coding | Human Element |
| Sub Number | 28 |
| Line Number | 4L305 |
| Location | Whitehorse-Range Road |
| # of Customers | 552 |
| Avg. Customer Duration | 2.28 |
| Explanations Comments Helicopter contacted 3 phase pwr line bringing all 3 phases down. | |

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|---|----------------------|
| Service Area | 571 Whitehorse |
| Date Reported | 2012-06-24 |
| Time Reported | 6:00 |
| Outage Number | DRR00276 |
| Time Interrupted | 5:55 |
| Planned | Unplanned |
| Time Restored | 6:40 |
| Primary Cause | 9 Bird/Animal |
| CEA Coding | Foreign Interference |
| Sub Number | S150 |
| Line Number | 19L |
| Location | Whitehorse-Riverdale |
| # of Customers | 1995 |
| Avg. Customer Duration | 1.07 |
| Explanations Comments Squirrel in Lewes Blvd Substation caused S150-52-17 to trip, causing outage to all of Riverdale. Also found blown fuse on S6817, replaced. S6822 would not close due to alarm requiring reset on breaker control. | |

Board Report (>50 custs)



Service Area 573 Watson Lake

Date Reported 2012-04-30 **Time Reported** 22:30
Outage Number RGG00035 **Time Interrupted** 22:26
Planned Unplanned **Time Restored** 23:00
Sub Number 31 **Primary Cause** 2 Trees
Line Number 5L621 **CEA Coding** Trees
Location Watson Lake

of Customers 270
Avg. Customer Duration 0.88

Explanations Comments

Breaker S7242 opened, sectionalized, closed breaker, patrolled and found poplar tree on cross country stretch of line, removed and restored power.

Service Area 573 Watson Lake

Date Reported 2012-06-07 **Time Reported** 20:50
Outage Number RGG00039 **Time Interrupted** 20:46
Planned Unplanned **Time Restored** 21:02
Sub Number 31 **Primary Cause** 2 Trees
Line Number 5L621 **CEA Coding** Trees
Location Watson Lake

of Customers 290
Avg. Customer Duration 0.93

Explanations Comments

Breaker S7242 opened on fault, patrolled the line finding 3 large trees on the line, remove, repaired line and re energized.

Service Area 573 Watson Lake

Date Reported 2012-06-28 **Time Reported** 7:40
Outage Number RGG00047 **Time Interrupted** 7:40
Planned Unplanned **Time Restored** 7:54
Sub Number 31 **Primary Cause** 15 Other
Line Number 5I619 **CEA Coding** Unknown/Other
Location Watson Lake

of Customers 320
Avg. Customer Duration 0.23

Explanations Comments

Breaker S7230 opened. Operator added load on units breaker closed, held, patrolled lines - no fault found.

Board Report (>50 custs)



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|---|------------|-------------------------------|---------|
| Service Area 576 Teslin | | | |
| Date Reported | 2012-05-12 | Time Reported | 14:18 |
| Outage Number | DJC00082 | Time Interrupted | 14:18 |
| Planned | Unplanned | Time Restored | 19:00 |
| Sub Number | 9L | Primary Cause | 2 Trees |
| Line Number | Teslin | CEA Coding | Trees |
| | | # of Customers | 200 |
| | | Avg. Customer Duration | 4.70 |
| <div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Teslin back up generator failed to come on automatically when tree contacted 9L (Teslin line). Serviceman dispatched to energize.</p> </div> | | | |

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|---|---------------------|-------------------------------|---------------|
| Service Area 576 Teslin | | | |
| Date Reported | 2012-06-20 | Time Reported | 12:41 |
| Outage Number | RJZ00297 | Time Interrupted | 12:41 |
| Planned | Unplanned | Time Restored | 13:42 |
| Sub Number | S150 | Primary Cause | 15 Other |
| Line Number | 5L622 | CEA Coding | Unknown/Other |
| Location | Teslin-Cottage Lots | | |
| | | # of Customers | 351 |
| | | Avg. Customer Duration | 0.32 |
| <div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Fault on 9L tripped S9567, Teslin on back up generation, reclosed the breaker restoring customers on the Alaska Hwy South up to Teslin. S9567 was in non reclose at this time for brushing.</p> </div> | | | |

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|--|------------|-------------------------------|-----------------------------------|
| Service Area 579 Old Crow | | | |
| Date Reported | 2012-05-15 | Time Reported | 13:41 |
| Outage Number | PTM00117 | Time Interrupted | 13:41 |
| Planned | Unplanned | Time Restored | 13:42 |
| Sub Number | 0L | Primary Cause | 21 YECL Plant Outage |
| Line Number | Old Crow | CEA Coding | Loss of Supply - Yukon Electrical |
| Location | Old Crow | | |
| | | # of Customers | 800 |
| | | Avg. Customer Duration | 0.02 |
| <div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Old Crow Unit #2 was on line for each failure, Unit #2 appears to be unable to carry load. Unit #2 has been derated.</p> </div> | | | |

Board Report (>50 custs)



Service Area 579 Old Crow

Date Reported 2012-06-04 **Time Reported** 18:05 **# of Customers** 200
Outage Number PTYM00119 **Time Interrupted** 18:05 **Avg. Customer Duration** 0.02
Planned Unplanned **Time Restored** 18:06
Sub Number 21 YECL Plant Outage
Line Number 0L **Primary Cause** CEA Coding Loss of Supply - Yukon Electrical
Location

Explanations Comments
 Brief outage caused by Unit #2 coolant leak, manually shutdown the unit to prevent damage

Service Area 579 Old Crow

Date Reported 2012-06-28 **Time Reported** 19:03 **# of Customers** 200
Outage Number GDH00009 **Time Interrupted** 18:03 **Avg. Customer Duration** 6.95
Planned Unplanned **Time Restored** 1:00
Sub Number 20 Maintenance
Line Number 0L **Primary Cause** CEA Coding Scheduled
Location Old Crow

Explanations Comments
 Fuel shutdown system sump filled with water causing plant to shutdown

Service Area 583 Pelly Crossing

Date Reported 2012-06-24 **Time Reported** 9:00 **# of Customers** 179
Outage Number DRR00277 **Time Interrupted** 5:55 **Avg. Customer Duration** 3.58
Planned Unplanned **Time Restored** 9:30
Sub Number S150 **Primary Cause** 9 Bird/Animal
Line Number 19L **CEA Coding** Foreign Interference
Location Pelly Crossing

Explanations Comments
 Fault tripped S150-52-17 and caused under voltage trip on OSS S2487 to Pelly Crossing. Restored Pelly Crossing via SCADA. See DRR00277

Board Report (>50 custs)



Service Area 585 Tagish

Date Reported 2012-05-10 Time Reported 10:30
Outage Number SS000365 Time Interrupted 10:30
Planned Unplanned Time Restored 17:00
Sub Number 301 Primary Cause 2 Trees
Line Number 5L600 CEA Coding Trees
Location Tagish

of Customers 360
Avg. Customer Duration 6.50

Explanations Comments

Found a tree on the line during patrol, cleared tree, repaired line and re energized customers.

Service Area 585 Tagish

Date Reported 2012-06-24 Time Reported 21:40
Outage Number RJZ00298 Time Interrupted 21:40
Planned Unplanned Time Restored 2:00
Sub Number 301 Primary Cause 2 Trees
Line Number 5L600 CEA Coding Trees
Location Tagish

of Customers 59
Avg. Customer Duration 4.33

Explanations Comments

Large tree fell through the primary and neutral, repaired and re energized.