



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

April 17, 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 January, February and March 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

Date Reported 2012-01-17 Time Reported 12:45 # of Customers 1100
 Outage Number DRR00265 Time Interrupted 12:45 Avg. Customer Duration 2.58

Planned Unplanned Time Restored 15:20
 Sub Number 303 Primary Cause 8 Equipment Failure
 Line Number 10L CEA Coding Defective Equipment
 Location Whitehorse-Downtown

Explanations Comments
 Substation transformer in Shipyards Sub failed, picked up load from other substations in stages, isolated faulted transformer.

Service Area

Date Reported 2012-01-18 Time Reported 18:29 # of Customers 3900
 Outage Number DJC00073 Time Interrupted 18:29 Avg. Customer Duration 2.18

Planned Unplanned Time Restored 20:40
 Sub Number 17 Primary Cause 7 Overload
 Line Number 5L625 CEA Coding Defective Equipment
 Location Whitehorse-Porter Creek

Explanations Comments
 Cold weather caused an overcurrent trip At S6838. Most of the customers power restored by 2040hrs last customers on at 221 hrs.

Service Area

Date Reported 2012-02-03 Time Reported : 0 # of Customers 102
 Outage Number RJZ00283 Time Interrupted 12:08 Avg. Customer Duration 0.00

Planned Unplanned Time Restored 13:05
 Sub Number 29 Primary Cause 2 Trees
 Line Number 5L630 CEA Coding Trees
 Location Whitehorse-Lobird

Explanations Comments
 Power out to Lobird and the Weigh Scales caused by a large tree falling across all three phases blowing 3 10amp fuses at the highway.

Board Report (>50 custs)



Service Area

Date Reported 2012-02-03 **Time Reported** 9:15
Outage Number SS000358 **Time Interrupted** 9:15
Planned Unplanned **Time Restored** 9:30
Sub Number 170 **Primary Cause** 3 Wind
Line Number 5L624 **CEA Coding** Adverse Weather
Location Whitehorse-Multiple Areas

of Customers 1103
Avg. Customer Duration 0.25

Explanations Comments
 Outage to S9815 in MacIntyre Substation due to frost and extreme winds

Service Area

Date Reported 2012-03-19 **Time Reported** 12:30
Outage Number RJZ00286 **Time Interrupted** 12:00
Planned Unplanned **Time Restored** 13:05
Sub Number 21 **Primary Cause** 14 Unknown
Line Number 5L628 **CEA Coding** Unknown/Other
Location Whitehorse-Multiple Areas

of Customers 1065
Avg. Customer Duration 0.64

Explanations Comments
 Crestview, North Klondike Hwy & Alaska Hwy North experienced partial power when 100amp fuse blew on the high side of the power transformer in Laberge Substation. Tested transformer & investigated no cause found.

Service Area

Date Reported 2012-03-30 **Time Reported** 13:50
Outage Number WAF120330-571 **Time Interrupted** 13:50
Planned Unplanned **Time Restored** :0
Sub Number **Primary Cause** 22 YEC Generation/Transm
Line Number WAF **CEA Coding** Loss of Supply - Yukon Energy
Location

of Customers 747
Avg. Customer Duration 0.00

Explanations Comments
 Contractor working for YEC felled a tree on 138kV line between Carmacks and Faro causing L170 to trip off. Brief outage to communities of Ross, Carmacks and Pelly until back up generation came on line.

Board Report (>50 custs)



Service Area 572 Haines Junction

Date Reported 2012-03-30 **Time Reported** 19:42 **# of Customers** 524
Outage Number RTW00249 **Time Interrupted** 19:39 **Avg. Customer Duration** 0.09
Planned Unplanned **Time Restored** 19:42
Sub Number 20 **Primary Cause** 22 YEC Generation/Transm
Line Number 5L607 **CEA Coding** Loss of Supply - Yukon Energy
Location

Explanations Comments

YEC had disturbance on the Grid causing outage to Canyon and Haines Junction. Customers power restored by back up generation. Return to the grid at 20:15hrs (36 minutes later).

Service Area 573 Watson Lake

Date Reported 2012-01-07 **Time Reported** 13:05 **# of Customers** 329
Outage Number RGG00029 **Time Interrupted** 13:04 **Avg. Customer Duration** 0.43
Planned Unplanned **Time Restored** 13:30
Sub Number 31 **Primary Cause** 4 Icing
Line Number 5L621 **CEA Coding** Adverse Weather
Location Watson Lake

Explanations Comments

Received a call for frost on the lines, patrolled, closed breaker, power restored. Tree on hot tap feeding one customer, removed and re energized remaining customer.

Service Area 575 Carmacks

Date Reported 2012-03-30 **Time Reported** 13:50 **# of Customers** 289
Outage Number WAF120330-575 **Time Interrupted** 13:55 **Avg. Customer Duration** 0.08
Planned Unplanned **Time Restored** : 0
Sub Number **Primary Cause** 22 YEC Generation/Transm
Line Number 5L606 **CEA Coding** Loss of Supply - Yukon Energy
Location

Explanations Comments

Contractor working for YEC felled a tree on 138kV line between Carmacks and Faro causing L170 to trip off. Brief outage to communities of Ross, Carmacks and Pelly until back up generation came on line. Backup generation did start.

Board Report (>50 custs)

Service Area	577 Destruction Bay	
Date Reported	2012-02-28	Time Reported 3:30
Outage Number	DJC00075	Time Interrupted 3:20
Planned	Unplanned	Time Restored 3:50
Sub Number		Primary Cause 8 Equipment Failure
Line Number	3L402	CEA Coding Defective Equipment
Location	Destruction Bay	
	# of Customers 150	
	Avg. Customer Duration 0.50	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments Unit #1 tripped due to overcurrent (blown transformer found the following day) Local operator synced Unit #1 back on line. </div>	

Service Area	579 Old Crow	
Date Reported	2012-01-18	Time Reported 7:00
Outage Number	PTM00112	Time Interrupted 6:55
Planned	Unplanned	Time Restored 6:56
Sub Number		Primary Cause 21 YECL Plant Outage
Line Number	0L	CEA Coding Loss of Supply - Yukon Electrical
Location	Old Crow	
	# of Customers 181	
	Avg. Customer Duration 0.02	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments Primary plant fuel filter trouble caused unit to drop off line for short period. </div>	

Service Area	579 Old Crow	
Date Reported	2012-01-25	Time Reported 6:01
Outage Number	PTM00113	Time Interrupted 6:01
Planned	Unplanned	Time Restored 6:03
Sub Number		Primary Cause 21 YECL Plant Outage
Line Number	0L	CEA Coding Loss of Supply - Yukon Electrical
Location	Old Crow	
	# of Customers 189	
	Avg. Customer Duration 0.03	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments Plant outage when feeders tripped on under frequency during switching. Load increased rapidly, before larger unit came on line. </div>	

Board Report (>50 custs)



Service Area 579 Old Crow

Date Reported 2012-02-04 **Time Reported** 8:00
Outage Number PTM00115 **Time Interrupted** 8:00
Planned Unplanned **Time Restored** 8:03
Sub Number **Primary Cause** 8 Equipment Failure
Line Number 0L **CEA Coding** Defective Equipment
Location Old Crow

of Customers 724
Avg. Customer Duration 0.04

Explanations Comments

Brief outages to the community when Unit #2 generator failed due to mechanical problems. Finning in to Old Crow to fix.

Service Area 580 Keno City

Date Reported 2012-01-01 **Time Reported** 23:59
Outage Number THB00267A **Time Interrupted** 23:59
Planned Unplanned **Time Restored** 11:00
Sub Number 257 **Primary Cause** 22 YEC Generation/Transm
Line Number 3L403 **CEA Coding** Loss of Supply - Yukon Energy
Location

of Customers 56
Avg. Customer Duration 11.02

Explanations Comments

Trouble on YEC 69kV line between keno & Elsa (possible frost build up). Back up generator XQ225 put on line. Unit failed after 12hours on line. Second generator brought in to feed Keno customers by YEC. YEC restored grid at 0930hrs Jan 4th.

Service Area 580 Keno City

Date Reported 2012-01-29 **Time Reported** 12:59
Outage Number SS000356 **Time Interrupted** 12:59
Planned Unplanned **Time Restored** 13:03
Sub Number S257 **Primary Cause** 22 YEC Generation/Transm
Line Number L250 **CEA Coding** Loss of Supply - Yukon Energy
Location

of Customers 56
Avg. Customer Duration 0.07

Explanations Comments

Interruption on YEC's L250 feeding Keno City caused a brief outage. Line restored-no cause determined.

Board Report (>50 custs)



Service Area 581 Stewart Crossing

Date Reported 2012-03-30 **Time Reported** 13:50 **# of Customers** 62
Outage Number PTM00116 **Time Interrupted** 13:50 **Avg. Customer Duration** 5.36

Planned Unplanned **Time Restored** 21:21
Sub Number 22 YEC Generation/Transm
Line Number 0L **CEA Coding** Loss of Supply - Yukon Energy
Location Stewart Crossing

Explanations Comments

YEC brushing contractor dropped a tree on L170 between Carmacks & Faro. Stewart Crossing back up generator failed to come on. Tech's traveled from Whse to Stewart, repaired generator breaker.

Service Area 582 Ross River

Date Reported 2012-01-25 **Time Reported** 9:54 **# of Customers** 218
Outage Number PTM00114 **Time Interrupted** 9:54 **Avg. Customer Duration** 0.07

Planned Unplanned **Time Restored** 9:58
Sub Number 19 **Primary Cause** 22 YEC Generation/Transm
Line Number 0L **CEA Coding** Loss of Supply - Yukon Energy
Location

Explanations Comments

Interruption on YEC's L356 from Faro caused diesel back up to come on line to feed Ross River

Service Area 582 Ross River

Date Reported 2012-03-30 **Time Reported** 13:50 **# of Customers** 218
Outage Number WAF120330-582 **Time Interrupted** 13:50 **Avg. Customer Duration** 0.08

Planned Unplanned **Time Restored** :0
Sub Number 22 YEC Generation/Transm
Line Number 5L618 **CEA Coding** Loss of Supply - Yukon Energy
Location

Explanations Comments

Contractor working for YEC felled a tree on 138kV line between Carmacks and Faro causing L170 to trip off. Brief outage to communities of Ross, Carmacks and Pelly until back up generation came on line. Backup generation did start.

Board Report (>50 custs)



Service Area 583 Pelly Crossing

Date Reported 2012-03-30 **Time Reported** 13:50
Outage Number WAF120330-583 **Time Interrupted** 13:50
Planned Unplanned **Time Restored** :0
Primary Cause 22 YEC Generation/Transm

Sub Number 4L302 **CEA Coding** Loss of Supply - Yukon Energy
Location

of Customers 180
Avg. Customer Duration 0.73

Explanations Comments
 Contractor working for YEC felled a tree on 138kV line between Carmacks and Faro causing L170 to trip off. Brief outage to communities of Ross, Carmacks and Pelly until back up generation came on line. Backup generation did start.

Service Area 592 Marsh Lake

Date Reported 2012-02-03 **Time Reported** 9:40
Outage Number AMI00132 **Time Interrupted** 9:40
Planned Unplanned **Time Restored** 14:00
Sub Number 23 **Primary Cause** 2 Trees
Line Number 5L611 **CEA Coding** Trees
Location Marsh Lake

of Customers 89
Avg. Customer Duration 4.33

Explanations Comments
 Tree fell through the primary & neutral, wires down

Service Area 592 Marsh Lake

Date Reported 2012-02-03 **Time Reported** 10:00
Outage Number DJC00070 **Time Interrupted** 10:00
Planned Unplanned **Time Restored** 13:05
Sub Number 24 **Primary Cause** 2 Trees
Line Number 5L612 **CEA Coding** Trees
Location Marsh Lake

of Customers 50
Avg. Customer Duration 3.08

Explanations Comments
 Tree on the line causing outage to Armstrong road area in New Constabulary