



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

April 12, 2011

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 outages for the months of January, February and March, 2011. 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.

YUB\yubout11

Board Report (>50 custs)



Service Area 571 Whitehorse

Date Reported 2011-01-23 Time Reported 2:13 # of Customers 1967
 Outage Number WAF110123-571 Time Interrupted 2:13 Avg. Customer Duration 0.20

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

Explanations Comments
 YEC L170 Faro Line tripped off, causing S150-52-17 to trip.
 Carmacks & Ross River & Pelly Crossing all on Diesel backup.
 Took standby diesels offline once confirmation of L170 re-energized by YEC received.

Service Area 571 Whitehorse

Date Reported 2011-02-04 Time Reported 11:28 # of Customers 2716
 Outage Number WAF110204-571 Time Interrupted 11:28 Avg. Customer Duration 0.80

Planned Unplanned Time Restored : 0
 Sub Number Primary Cause 14 Unknown
 Line Number WAF CEA Coding Unknown/Other
 Location

Explanations Comments
 Outage caused by transient fault on 4L306 S8358 out of Mountainview Substation.

Service Area 571 Whitehorse

Date Reported 2011-02-27 Time Reported 15:00 # of Customers 70
 Outage Number RTW00213 Time Interrupted 15:00 Avg. Customer Duration 2.58

Planned Unplanned Time Restored 17:35
 Sub Number Primary Cause 2 Trees
 Line Number 51631 CEA Coding Trees
 Location Whitehorse-Alaska Hwy South

Explanations Comments
 See RTW00211. Tree had fallen on 34kV & 14.4kV double circuit pole causing outage. Crew removed the tree & repaired both circuits

Board Report (>50 custs)



Service Area 571 Whitehorse

Date Reported 2011-03-22 Time Reported 14:25 # of Customers 11584

Outage Number WAF110322-571 Time Interrupted 14:25 Avg. Customer Duration 1.55

Planned Unplanned Time Restored : 0

Sub Number Primary Cause 22 YEC Generation/Transm

Line Number WAF CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

System restoration after YEC loss of WAF gridion. cause of WAF outage was an issue at Faro mine

Service Area 571 Whitehorse

Date Reported 2011-03-27 Time Reported 14:15 # of Customers 788

Outage Number SS000314 Time Interrupted 14:15 Avg. Customer Duration 0.94

Planned Unplanned Time Restored 19:32

Sub Number 21 Primary Cause 8 Equipment Failure

Line Number 5L628 CEA Coding Defective Equipment

Location Whitehorse-McPherson

Explanations Comments

Patrolled lines-sectionalized and energized in blocks. Repaired tap. load insulator knocked power off

Service Area 572 Haines Junction

Date Reported 2011-03-22 Time Reported 14:25 # of Customers 495

Outage Number WAF110322-572 Time Interrupted 14:25 Avg. Customer Duration 0.08

Planned Unplanned Time Restored : 0

Sub Number Primary Cause 22 YEC Generation/Transm

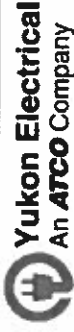
Line Number WAF CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

System restoration after YEC loss of WAFgrid Backup generation did start.

Board Report (>50 custs)



Service Area 573 Watson Lake

Date Reported 2011-01-22 Time Reported 13:17 # of Customers 956

Outage Number JES00090 Time Interrupted 13:17 Avg. Customer Duration 0.30

Planned Unplanned

Sub Number Primary Cause 21 YECCL Plant Outage

Line Number 0L CEA Coding Loss of Supply - Yukon Electrical

Location Watson Lake

Explanations Comments

Load Shed Unit 4&Unit 6 on over current. Snow loading letting go in the trees & on poles caused Unit 6 to trip off line on over current.

Service Area 574 Carcross

Date Reported 2011-03-22 Time Reported 14:25 # of Customers 317

Outage Number WAF110322-574 Time Interrupted 14:25 Avg. Customer Duration 1.23

Planned Unplanned

Sub Number Primary Cause 22 YEC Generation/Transm

Line Number 5L601 CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

System restoration after YEC loss of WAF grid

Service Area 575 Carmacks

Date Reported 2011-01-23 Time Reported 2:13 # of Customers 289

Outage Number WAF110123-575 Time Interrupted 2:13 Avg. Customer Duration 0.03

Planned Unplanned

Sub Number Primary Cause 22 YEC Generation/Transm

Line Number 5L606 CEA Coding Loss of Supply - Yukon Energy

Location

Explanations Comments

YEC L170 Faro Line tripped off, causing S150-52-17 to trip. Carmacks & Ross River & Pelly Crossing all on Diesel backup. Took standby diesels offline once confirmation of L170 re-energized by YEC received. Backup generation did start.

Board Report (>50 custs)



Service Area 575 Carmacks

Date Reported 2011-02-04 Time Reported 11:28 # of Customers 289
 Outage Number WAF110204-575 Time Interrupted 11:28 Avg. Customer Duration 0.08

Planned Unplanned Time Restored : 0
 Primary Cause 14 Unknown
 Sub Number CEA Coding Unknown/Other
 Line Number 5L606
 Location

Explanations Comments

Outage caused by transient fault on 4L306 S8358 out of Mountainview Substation. Backup generation did start.

Service Area 575 Carmacks

Date Reported 2011-03-22 Time Reported 14:25 # of Customers 289
 Outage Number WAF110322-575 Time Interrupted 14:25 Avg. Customer Duration 0.08

Planned Unplanned Time Restored : 0
 Primary Cause 22 YEC Generation/Transm
 Sub Number CEA Coding Loss of Supply - Yukon Energy
 Line Number 5L606
 Location

Explanations Comments

System restoration after YEC loss of WAF grid Backup generation did start.

Service Area 576 Teslin

Date Reported 2011-02-03 Time Reported 1:15 # of Customers 97
 Outage Number SS000309 Time Interrupted 1:10 Avg. Customer Duration 4.77

Planned Unplanned Time Restored 6:06
 Primary Cause 2 Trees
 Sub Number S150 CEA Coding Trees
 Line Number 9L
 Location Teslin-Cottage Lots

Explanations Comments

Tree on the line south of Jakes Corner caused outage to customers on the Alaska Hwy South & in the Cottage Lots

Board Report (>50 custs)



Service Area 576 Teslin

Date Reported 2011-02-03 Time Reported 1:15
 Outage Number SS000310 Time Interrupted 1:15
 Planned Unplanned Time Restored 1:20
 Sub Number 27 Primary Cause 2 Trees
 Line Number 9L CEA Coding Trees
 Location Teslin

of Customers 262
 Avg. Customer Duration 0.08

Explanations Comments

Outage to Teslin for 5 minutes until back up diesel came on line. see DIRSS000309

Service Area 576 Teslin

Date Reported 2011-02-27 Time Reported 15:00
 Outage Number RTW00212 Time Interrupted 15:00
 Planned Unplanned Time Restored 15:06
 Sub Number 27 Primary Cause 2 Trees
 Line Number 5L622 CEA Coding Trees
 Location Teslin

of Customers 353
 Avg. Customer Duration 0.80

Explanations Comments

See RTW00211. Tree had fallen onto 34kV & 14.4kV double circuit pole causing outage. Crew removed tree & repaired both circuits

Service Area 576 Teslin

Date Reported 2011-03-22 Time Reported 14:25
 Outage Number WAF110322-576 Time Interrupted 14:25
 Planned Unplanned Time Restored : 0
 Sub Number WAF Primary Cause 22 YEC Generation/Transm
 Line Number WAF CEA Coding Loss of Supply - Yukon Energy
 Location

of Customers 351
 Avg. Customer Duration 0.29

Explanations Comments

System restoration after YEC loss of WAF gird. Backup generation did start.

Board Report (>50 custs)



Service Area 578 Beaver Creek

Date Reported 2011-02-26 **Time Reported** 8:30 **# of Customers** 118

Outage Number TGG00220 **Time Interrupted** 8:30 **Avg. Customer Duration** 8.24

Planned Unplanned **Time Restored** 16:40

Sub Number **Primary Cause** 2 Trees

Line Number 3L400 **CEA Coding** Trees

Location

Explanations Comments

High winds caused tree to come down on the community distribution line. The fault knocked the plant off line. The automated computer system was unable to restore power. Personnel were dispatched from Whitehorse & Haines Junction

Service Area 580 Keno City

Date Reported 2011-01-03 **Time Reported** 17:20 **# of Customers** 56

Outage Number BSP00192 **Time Interrupted** 17:20 **Avg. Customer Duration** 0.10

Planned Unplanned **Time Restored** 17:26

Sub Number 257 **Primary Cause** 22 YEC Generation/Transm

Line Number 3L403 **CEA Coding** Loss of Supply - Yukon Energy

Location

Explanations Comments

Heavy frost on lines to Keno caused YEC transmission outage.

Service Area 580 Keno City

Date Reported 2011-01-24 **Time Reported** 5:50 **# of Customers** 56

Outage Number DRR00234 **Time Interrupted** 5:40 **Avg. Customer Duration** 0.23

Planned Unplanned **Time Restored** 5:54

Sub Number **Primary Cause** 22 YEC Generation/Transm

Line Number 0L **CEA Coding** Loss of Supply - Yukon Energy

Location

Explanations Comments

Keno customer called without power, serviceman checked with YEC, they were having trouble with feeder from Mayo.

Board Report (>50 custs)



Service Area	580 Keno City	
Date Reported	2011-01-29	Time Reported 15:01
Outage Number	SS000306	Time Interrupted 15:01
Planned	Unplanned	Time Restored 15:05
Sub Number	16	Primary Cause YEC System Outage
Line Number	L250	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 59	
	Avg. Customer Duration 0.07	
Explanations Comments YEC unplanned system outage		

Service Area	582 Ross River	
Date Reported	2011-01-23	Time Reported 2:13
Outage Number	WAF110123-582	Time Interrupted 2:13
Planned	Unplanned	Time Restored : 0
Sub Number	22	Primary Cause YEC Generation/Transm
Line Number	5L618	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 218	
	Avg. Customer Duration 0.03	
Explanations Comments YEC L170 Faro Line tripped off, causing S150-52-17 to trip. Carmacks & Ross River & Pelly Crossing all on Diesel backup. Took standby diesels offline once confirmation of L170 re-energized by YEC received. Backup generation did start.		

Service Area	582 Ross River	
Date Reported	2011-03-22	Time Reported 14:25
Outage Number	WAF110322-582	Time Interrupted 14:25
Planned	Unplanned	Time Restored : 0
Sub Number	22	Primary Cause YEC Generation/Transm
Line Number	5L618	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 218	
	Avg. Customer Duration 0.08	
Explanations Comments System restoration after YEC loss of WAF gridn Backup generation did start.		

Board Report (>50 custs)

Service Area 583 Pelly Crossing					
Date Reported	2011-01-23	Time Reported	2:13	# of Customers	180
Outage Number	WAF110204-583	Time Interrupted	2:13	Avg. Customer Duration	0.85
Planned	Unplanned	Time Restored	: 0	<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments YEC L170 Faro Line tripped off, causing S150-52-17 to trip. Carmacks & Ross River & Pelly Crossing all on Diesel backup. Took standby diesels offline once confirmation of L170 re-energized by YEC received. Backup generation did start.</p> </div>	
Sub Number	4L302	Primary Cause	22 YEC Generation/Transm		
Line Number	4L302	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Service Area 583 Pelly Crossing					
Date Reported	2011-02-04	Time Reported	11:28	# of Customers	180
Outage Number	WAF110204-583	Time Interrupted	11:28	Avg. Customer Duration	0.48
Planned	Unplanned	Time Restored	: 0	<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Outage caused by transient fault on 4L306 S8358 out of Mountainview Substation. Backup generation did start.</p> </div>	
Sub Number	4L302	Primary Cause	14 Unknown		
Line Number	4L302	CEA Coding	Unknown/Other		
Location					

Service Area 583 Pelly Crossing					
Date Reported	2011-03-22	Time Reported	14:25	# of Customers	180
Outage Number	WAF110322-583	Time Interrupted	14:25	Avg. Customer Duration	0.67
Planned	Unplanned	Time Restored	: 0	<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments System restoration after YEC loss of WAF grid Backup generation did start.</p> </div>	
Sub Number	4L302	Primary Cause	22 YEC Generation/Transm		
Line Number	4L302	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Board Report (>50 custs)



Service Area 585 Tagish
Date Reported 2011-03-22 **Time Reported** 14:25
Outage Number WAFI10322-585 **Time Interrupted** 14:25
Planned Unplanned **Time Restored** : 0
Sub Number 22 YEC Generation/Transm
Line Number 5L600 **CEA Coding** Loss of Supply - Yukon Energy
Location
of Customers 373
Avg. Customer Duration 1.17
Explanations Comments
 System restoration after YEC loss of WAF grid

Service Area 590 Lower Post
Date Reported 2011-01-22 **Time Reported** 13:17
Outage Number JES00091 **Time Interrupted** 13:17
Planned Unplanned **Time Restored** 13:35
Sub Number 21 YECL Plant Outage
Line Number 0L **CEA Coding** Loss of Supply - Yukon Electrical
Location Lower Post
of Customers 91
Avg. Customer Duration 0.30
Explanations Comments
 Load Shed Unit 4&Unit 6 on over current. Snow loading letting go in the trees & on poles caused Unit 6 to trip off line on over current.

Service Area 590 Lower Post
Date Reported 2011-01-22 **Time Reported** 16:50
Outage Number RTW00205A **Time Interrupted** 16:00
Planned Unplanned **Time Restored** 17:55
Sub Number 4 Icing
Line Number 5L619 **CEA Coding** Adverse Weather
Location Lower Post
of Customers 56
Avg. Customer Duration 2.66
Explanations Comments
 Call from customer - fuse open due to snow falling off 'xer arm. Arrived to find half the village out of power, patrolled, cleared frost, re energized

Board Report (>50 custs)

Service Area 591 Upper Liard	
Date Reported 2011-01-22	Time Reported 13:17
Outage Number JES00092	Time Interrupted 13:17
Planned Unplanned	Time Restored 13:37
Sub Number 5L620	Primary Cause 21 YECL Plant Outage
Line Number 5L620	CEA Coding Loss of Supply - Yukon Electrical
Location Upper Liard	
	# of Customers 116
	Avg. Customer Duration 0.33
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Load Shed Unit 4&Unit 6 on over current. Snow loading in trees & poles letting go caused Unit 6 to trip off line on over current.</p> </div>	

Service Area 592 Marsh Lake	
Date Reported 2011-01-09	Time Reported 11:40
Outage Number RSM00146	Time Interrupted 16:45
Planned Unplanned	Time Restored 17:45
Sub Number 24	Primary Cause 6 Vehicles
Line Number 5L615	CEA Coding Foreign Interference
Location Marsh Lake	
	# of Customers 50
	Avg. Customer Duration 1.00
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Unknown vehicle ran through transformer pole breaking off the pole, power stayed on until crew repaired pole</p> </div>	

Service Area 592 Marsh Lake	
Date Reported 2011-02-26	Time Reported 12:45
Outage Number AMI00112	Time Interrupted 12:40
Planned Unplanned	Time Restored 17:30
Sub Number 24	Primary Cause 2 Trees
Line Number 5L612	CEA Coding Trees
Location Marsh Lake	
	# of Customers 250
	Avg. Customer Duration 4.83
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Tree fell on the line causing the breaker to trip open, patrolled lines, found fault, cleared and reclosed energizing the line</p> </div>	

Board Report (>50 custs)



Service Area 592 Marsh Lake

Date Reported 2011-02-27 **Time Reported** 15:00
Outage Number RTW00211 **Time Interrupted** 15:00
Planned Unplanned **Time Restored** 17:50
Sub Number 24 **Primary Cause** 2 Trees
Line Number 5L622 **CEA Coding** Trees

of Customers 455
Avg. Customer Duration 2.83

Explanations Comments
 Tree had fallen on 34.5kV & 14.4kV double circuit pole causing outage, crew removed tree and repaired circuits

Location Marsh Lake

Service Area 592 Marsh Lake

Date Reported 2011-03-22 **Time Reported** 14:25
Outage Number WAF10322-592 **Time Interrupted** 14:25
Planned Unplanned **Time Restored** : 0
Sub Number 22 YEC Generation/Transm
Line Number 9L **CEA Coding** Loss of Supply - Yukon Energy

of Customers 458
Avg. Customer Duration 0.95

Explanations Comments
 System restoration after YEC loss of WAF grid

Location