



The Yukon Electrical Company Limited
An ATCO Company

July 21, 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 unplanned outages for the months of April, May and June 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\about11

Board Report (>50 custs)

Service Area 571 Whitehorse		# of Customers 1929
Date Reported 2011-04-25	Time Reported 9:31	Avg. Customer Duration 0.70
Outage Number SS000335	Time Interrupted 9:31	Explanations Comments Squirrel blew sub breaker S150-52-19, opened S150-52-17, reenergized
Planned Unplanned	Time Restored 10:11	
Sub Number S150	Primary Cause 9 Bird/Animal	
Line Number 19L	CEA Coding Foreign Interference	
Location Whitehorse-Riverdale		

Service Area 571 Whitehorse		# of Customers 11584
Date Reported 2011-05-09	Time Reported 12:00	Avg. Customer Duration 1.45
Outage Number WAF110509-571	Time Interrupted 12:00	Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up.
Planned Unplanned	Time Restored : 0	
Sub Number	Primary Cause 22 YEC Generation/Transm	
Line Number WAF	CEA Coding Loss of Supply - Yukon Energy	
Location		

Service Area 571 Whitehorse		# of Customers 1302
Date Reported 2011-06-27	Time Reported 16:05	Avg. Customer Duration 0.27
Outage Number THB00252-571	Time Interrupted 16:05	Explanations Comments Outage caused by underfrequency load shed by YEC. Lightning storm caused trouble on the 138kV line. Minto went off as well causing Stewart Crossing to go off
Planned Unplanned	Time Restored : 0	
Sub Number	Primary Cause 22 YEC Generation/Transm	
Line Number WAF	CEA Coding Loss of Supply - Yukon Energy	
Location		

Board Report (>50 custs)



Service Area 571 Whitehorse

Date Reported 2011-06-28 **Time Reported** 10:00 **# of Customers** 100
Outage Number RSM00157 **Time Interrupted** 10:35 **Avg. Customer Duration** 2.08

Planned Unplanned **Time Restored** 12:40
Sub Number 29 **Primary Cause** 11 Human Interference
Line Number 5L629 **CEA Coding** Human Element
Location Whitehorse-Copperridge

Explanations Comments

Vehicle contacted 75kVA underground transformer damaging it. Caused a leak, power stayed on until time of transformer change.

Service Area 572 Haines Junction

Date Reported 2011-05-09 **Time Reported** 12:00 **# of Customers** 495
Outage Number WAF110509-572 **Time Interrupted** 12:00 **Avg. Customer Duration** 1.47

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 had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. Backup generation did not start.

Service Area 573 Watson Lake

Date Reported 2011-05-12 **Time Reported** 18:33 **# of Customers** 210
Outage Number BAC00118 **Time Interrupted** 18:33 **Avg. Customer Duration** 0.78

Planned Unplanned **Time Restored** 19:20
Sub Number **Primary Cause** 15 Other
Line Number 5L620 **CEA Coding** Unknown/Other
Location Watson Lake

Explanations Comments

Breaker S7232 locked out caused by center phase riser coming into contact with switch arm brace on 3 phase transformer pole

Board Report (>50 custs)



Service Area 573 Watson Lake			
Date Reported	2011-06-27	Time Reported	17:26
Outage Number	JES00093	Time Interrupted	17:26
Planned	Unplanned	Time Restored	17:38
Sub Number		Primary Cause	1 Lightning
Line Number	0L	CEA Coding	Lightning
Location	Watson Lake		
	# of Customers	752	
	Avg. Customer Duration	0.20	
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments Total outage when Unit #4 went off due to protection trip. Possibly lightning</p> </div>			

Service Area 574 Carcross			
Date Reported	2011-05-09	Time Reported	12:00
Outage Number	WAF110509-574	Time Interrupted	12:00
Planned	Unplanned	Time Restored	: 0
Sub Number		Primary Cause	22 YEC Generation/Transm
Line Number	5L601	CEA Coding	Loss of Supply - Yukon Energy
Location			
	# of Customers	317	
	Avg. Customer Duration	1.82	
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up.</p> </div>			

Service Area 574 Carcross			
Date Reported	2011-05-11	Time Reported	11:00
Outage Number	RJZ00261A	Time Interrupted	10:35
Planned	Unplanned	Time Restored	15:10
Sub Number		Primary Cause	8 Equipment Failure
Line Number	5L623	CEA Coding	Defective Equipment
Location	Carcross Corner		
	# of Customers	317	
	Avg. Customer Duration	4.58	
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments 2 Sets of Dead end bells failed on 5L623 at Emerald Lake Turnoff.</p> </div>			

Board Report (>50 custs)

Service Area	575 Carmacks	
Date Reported	2011-05-09	Time Reported 12:00
Outage Number	WAF110509-575	Time Interrupted 12:00
Planned	Unplanned	Time Restored : 0
Sub Number	22	Primary Cause YEC Generation/Transm
Line Number	5L606	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 289	Avg. Customer Duration 0.03
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. Backup generation did start.</p> </div>		

Service Area	576 Teslin	
Date Reported	2011-05-09	Time Reported 12:00
Outage Number	WAF110509-576	Time Interrupted 12:00
Planned	Unplanned	Time Restored : 0
Sub Number	22	Primary Cause YEC Generation/Transm
Line Number	WAF	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 351	Avg. Customer Duration 0.49
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. Backup generation did start.</p> </div>		

Service Area	576 Teslin	
Date Reported	2011-06-17	Time Reported 12:47
Outage Number	RJZ00262	Time Interrupted 12:47
Planned	Unplanned	Time Restored 13:05
Sub Number	27	Primary Cause 8 Equipment Failure
Line Number	9L622	CEA Coding Defective Equipment
Location	Teslin	
	# of Customers 534	Avg. Customer Duration 0.20
<div style="border: 1px solid black; padding: 5px;"> <p>Explanations Comments The OSS in Teslin was not co ordinating with S9867 which caused brief outages in Teslin until the plant came on line. Equipment has been repaired.</p> </div>		

Board Report (>50 custs)

Service Area	580 Keno City					# of Customers 50
Date Reported	2011-06-12	Time Reported	23:00			Avg. Customer Duration 8.00
Outage Number	BSP00199	Time Interrupted	23:00			Explanations Comments YEC line to Keno had 3 structures fall over, brought mobile generator into Keno to re energize our customers
Planned	Unplanned	Time Restored	7:00			
Sub Number	257	Primary Cause	22 YEC Generation/Transm			
Line Number	3L403	CEA Coding	Defective Equipment			
Location						

Service Area	580 Keno City					# of Customers 56
Date Reported	2011-06-28	Time Reported	21:49			Avg. Customer Duration 0.40
Outage Number	DRR00240	Time Interrupted	21:49			Explanations Comments YEC line feeding Keno tripped off due to lightening in the area
Planned	Unplanned	Time Restored	22:13			
Sub Number		Primary Cause	22 YEC Generation/Transm			
Line Number	3L403	CEA Coding	Loss of Supply - Yukon Energy			
Location						

Service Area	581 Stewart Crossing					# of Customers 70
Date Reported	2011-06-26	Time Reported	16:38			Avg. Customer Duration 5.40
Outage Number	RJZ00265	Time Interrupted	16:38			Explanations Comments Lightening on YEC 138kV transmission line caused outage to the OSS S1862. The OSS failed to respond, resulting in the plant not coming on line automatically
Planned	Unplanned	Time Restored	21:30			
Sub Number		Primary Cause	8 Equipment Failure			
Line Number	5L638	CEA Coding	Defective Equipment			
Location	Stewart Crossing					

Board Report (>50 custs)



Service Area 581 Stewart Crossing					
Date Reported	2011-06-28	Time Reported	13:30	# of Customers	62
Outage Number	DRR00239	Time Interrupted	13:22	Avg. Customer Duration	1.41
Planned	Unplanned	Time Restored	14:52	Explanations Comments Lightening storm in Dawson/Mayo/Stewart area caused 2 outages to the YEC line feeding from Mayo to Stewart	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	5L638	CEA Coding	Loss of Supply - Yukon Energy		
Location	Stewart Crossing				

Service Area 582 Ross River					
Date Reported	2011-05-09	Time Reported	12:00	# of Customers	218
Outage Number	WAF110509-582	Time Interrupted	12:00	Avg. Customer Duration	0.03
Planned	Unplanned	Time Restored	: 0	Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. Backup generation did start.	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	5L618	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Service Area 583 Pelly Crossing					
Date Reported	2011-05-09	Time Reported	12:00	# of Customers	180
Outage Number	WAF110509-583	Time Interrupted	12:00	Avg. Customer Duration	0.37
Planned	Unplanned	Time Restored	: 0	Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. Backup generation did start.	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	4L302	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Board Report (>50 custs)

Service Area	583 Pelly Crossing	
Date Reported	2011-06-23	Time Reported 15:30
Outage Number	RSM00155	Time Interrupted 17:10
Planned	Unplanned	Time Restored 18:00
Sub Number	304	Primary Cause 8 Equipment Failure
Line Number	3L408	CEA Coding Defective Equipment
Location	Pelly Crossing	
	# of Customers 70	
	Avg. Customer Duration 0.83	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments Hot tap failed causing bad voltage. Outage taken to repair equipment safely </div>	

Service Area	585 Tagish	
Date Reported	2011-05-09	Time Reported 12:00
Outage Number	WAF110509-585	Time Interrupted 12:00
Planned	Unplanned	Time Restored : 0
Sub Number		Primary Cause 22 YEC Generation/Transm
Line Number	5L600	CEA Coding Loss of Supply - Yukon Energy
Location	Tagish	
	# of Customers 373	
	Avg. Customer Duration 1.80	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up. </div>	

Service Area	585 Tagish	
Date Reported	2011-05-11	Time Reported 11:00
Outage Number	RJZ00261B	Time Interrupted 10:35
Planned	Unplanned	Time Restored 15:10
Sub Number		Primary Cause 8 Equipment Failure
Line Number	5L623	CEA Coding Defective Equipment
Location	Tagish	
	# of Customers 377	
	Avg. Customer Duration 4.58	
	<div style="border: 1px solid black; padding: 5px;"> Explanations Comments 2 sets of dead end bells failed on 5L623, causing outage to Carx Rd, Carcross, Tagish Rd and Tagish </div>	

Board Report (>50 custs)



Service Area 590 Lower Post

Date Reported 2011-06-27 **Time Reported** 17:26
Outage Number JES00095 **Time Interrupted** 17:26
Planned Unplanned **Time Restored** 17:38
Sub Number **Primary Cause** 1 Lightning
Line Number 5L619 **CEA Coding** Lightning
Location Lower Post

of Customers 91
Avg. Customer Duration 0.20

Explanations Comments
 Total outage when Unit #4 went off on protection trip due to lightning.

Service Area 591 Upper Liard

Date Reported 2011-06-27 **Time Reported** 17:26
Outage Number JES00094 **Time Interrupted** 17:26
Planned Unplanned **Time Restored** 17:38
Sub Number **Primary Cause** 1 Lightning
Line Number 0L **CEA Coding** Lightning
Location Upper Liard

of Customers 752
Avg. Customer Duration 0.20

Explanations Comments
 Total outage to Watson Lake district when #4 unit went off on protection trip due to lightning.

Service Area 592 Marsh Lake

Date Reported 2011-05-09 **Time Reported** 12:00
Outage Number WAF110509-592 **Time Interrupted** 12:00
Planned Unplanned **Time Restored** : 0
Sub Number **Primary Cause** 22 YEC Generation/Transm
Line Number 9L **CEA Coding** Loss of Supply - Yukon Energy
Location

of Customers 458
Avg. Customer Duration 1.82

Explanations Comments
 YEC had problems with power transformer T5 contributing to a full grid outage of the WAF system. Haines Junction was not on back up.