



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

October 13, 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 July, August and September 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	2011-07-01	Time Reported 11:30
Outage Number	RSM00158	Time Interrupted 11:30
Planned	Unplanned	Time Restored 12:21
Sub Number	303	Primary Cause 11 Human Interference
Line Number	4L313	CEA Coding Human Element
Location	Whitehorse-Downtown	
	# of Customers 585	
	Avg. Customer Duration 0.85	
	Explanations Comments Line contact -window washer contacted 12550v primary causing S1016 to trip off line	

Service Area	571 Whitehorse	
Date Reported	2011-07-01	Time Reported 18:30
Outage Number	RSM00159	Time Interrupted 18:30
Planned	Unplanned	Time Restored 19:15
Sub Number	3	Primary Cause 9 Bird/Animal
Line Number	4L320	CEA Coding Foreign Interference
Location	Whitehorse-Riverdale	
	# of Customers 50	
	Avg. Customer Duration 0.75	
	Explanations Comments Squirrel took out a 15amp transformer fuse and a 25amp main line fuse.	

Service Area	571 Whitehorse	
Date Reported	2011-07-06	Time Reported 20:15
Outage Number	WAF110706-571	Time Interrupted 20:15
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 11584	
	Avg. Customer Duration 1.22	
	Explanations Comments Conductor down on the 138kV line near the sewage lagoon caused a blackout on the WAF System.	

Board Report (>50 custs)



Service Area

Date Reported 2011-07-07 **Time Reported** 13:45
Outage Number DRR00243 **Time Interrupted** 13:45
Planned Unplanned **Time Restored** 14:13
Sub Number 17 **Primary Cause** 9 Bird/Animal
Line Number 5L625 **CEA Coding** Foreign Interference
Location Whitehorse-Multiple Areas

of Customers 4679
Avg. Customer Duration 0.46

Explanations Comments
 Seagull in Services Substation caused breaker S6837 to trip. Power was off to Marwell Industrial area and Porter Creek.

Service Area

Date Reported 2011-07-19 **Time Reported** 3:45
Outage Number WAF110719-571 **Time Interrupted** 3:45
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 6471
Avg. Customer Duration 1.31

Explanations Comments
 YEC loss of generation caused outages to Stage 1, 2 & 3. System was restored in stages

Service Area

Date Reported 2011-07-29 **Time Reported** 21:30
Outage Number RSM00163 **Time Interrupted** 21:25
Planned Unplanned **Time Restored** 22:40
Sub Number 11 **Primary Cause** 14 Unknown
Line Number 5L631 **CEA Coding** Unknown/Other
Location Whitehorse-Alaska Hwy South

of Customers 50
Avg. Customer Duration 1.25

Explanations Comments
 Two 20 amp fuses blown near Substation, no cause found at the time, outage affected the Mt Sima Industrial area

Board Report (>50 custs)



Service Area 572 Haines Junction		# of Customers 135
Date Reported 2011-07-14	Time Reported 12:05	
Outage Number RTW00223	Time Interrupted 12:05	Avg. Customer Duration 1.32
Planned Unplanned	Time Restored 13:19	Explanations Comments Power outage at Mile 1548, when the fuse was closed the transformer switch broke & fell into the neutral blowing the sub breaker S9292. Isolated the problem repaired the switch & re energized the customers.
Sub Number	Primary Cause 8 Equipment Failure	
Line Number 0L	CEA Coding Defective Equipment	
Location		

Service Area 572 Haines Junction		# of Customers 514
Date Reported 2011-07-31	Time Reported 11:00	
Outage Number RSM00163B	Time Interrupted 11:00	Avg. Customer Duration 0.03
Planned Unplanned	Time Restored 11:02	Explanations Comments YEC lost L170 causing a brief outage to Haines Junction.
Sub Number 20	Primary Cause 16 YEC System Outage	
Line Number 5L608	CEA Coding Loss of Supply - Yukon Energy	
Location		

Service Area 573 Watson Lake		# of Customers 1000
Date Reported 2011-08-07	Time Reported 16:09	
Outage Number DJC00056	Time Interrupted 16:09	Avg. Customer Duration 0.48
Planned Unplanned	Time Restored 16:38	Explanations Comments Tree fell on two phases & neutral causing all substation breakers to open. System wide outage to Watson Lake District
Sub Number 31	Primary Cause 2 Trees	
Line Number 5L619	CEA Coding Trees	
Location Watson Lake		

Board Report (>50 custs)



Service Area 573 Watson Lake		# of Customers 905
Date Reported 2011-08-14	Time Reported 12:22	Avg. Customer Duration 0.30
Outage Number SS000349A	Time Interrupted 12:22	Explanations Comments Units #2 & #3 shut down on temperature alarms, all breakers opened. Reset the alarms and brought units back on line, closed in all breakers. Temperature alarm is being investigated
Planned Unplanned	Time Restored 12:40	
Sub Number 31	Primary Cause 21 YECCL Plant Outage	
Line Number 0L	CEA Coding Loss of Supply - Yukon Electrical	
Location Watson Lake		
Service Area 573 Watson Lake		# of Customers 510
Date Reported 2011-09-09	Time Reported 19:22	Avg. Customer Duration 0.40
Outage Number RGG00021	Time Interrupted 19:21	Explanations Comments Tree on the main line on Robert Campbell Hwy caused the substation breakers to open, fault was cleared and power was restored
Planned Unplanned	Time Restored 19:33	
Sub Number 31	Primary Cause 2 Trees	
Line Number 5L621	CEA Coding Trees	
Location Watson Lake		
Service Area 574 Carcross		# of Customers 317
Date Reported 2011-07-06	Time Reported 20:15	Avg. Customer Duration 0.97
Outage Number WAF110706-574	Time Interrupted 20:15	Explanations Comments Conductor down on the 138KV line near the sewage lagoon caused a blackout on the WAF System.
Planned Unplanned	Time Restored : 0	
Sub Number	Primary Cause 22 YEC Generation/Transm	
Line Number 5L601	CEA Coding Loss of Supply - Yukon Energy	
Location		

Board Report (>50 custs)



Service Area	574 Carcross	
Date Reported	2011-07-19	Time Reported 3:45
Outage Number	WAF110719-574	Time Interrupted 3:45
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 0.75	
	Explanations Comments YEC loss of generation caused outages to Stage 1, 2 & 3. System was restored in stages	

Service Area	575 Carmacks	
Date Reported	2011-07-06	Time Reported 20:15
Outage Number	WAF110706-575	Time Interrupted 20:15
Planned	Unplanned	Time Restored : 0
Sub Number		Primary Cause 22 YEC Generation/Transm
Line Number	5L606	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 289	
	Avg. Customer Duration 1.58	
	Explanations Comments Conductor down on the 138kV line near the sewage lagoon caused a blackout on the WAF System. Backup generation did not start.	

Service Area	575 Carmacks	
Date Reported	2011-07-31	Time Reported 11:00
Outage Number	RSM00164	Time Interrupted 11:00
Planned	Unplanned	Time Restored 11:02
Sub Number	18	Primary Cause 22 YEC Generation/Transm
Line Number	L170	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers 292	
	Avg. Customer Duration 0.03	
	Explanations Comments YEC lost L170 causing a brief outage to Carmacks	

Board Report (>50 custs)



Service Area	576 Teslin	
Date Reported	2011-07-06	Time Reported 20:15
Outage Number	WAF110706-576	Time Interrupted 20:15
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 351	
	Avg. Customer Duration 0.33	
	Explanations Comments Conductor down on the 138KV line near the sewage lagoon caused a blackout on the WAF System. Backup generation did start.	

Service Area	576 Teslin	
Date Reported	2011-07-19	Time Reported 3:45
Outage Number	WAF110719-576	Time Interrupted 3:45
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 351	
	Avg. Customer Duration 0.28	
	Explanations Comments YEC loss of generation caused outages to Stage 1, 2 & 3. System was restored in stages Backup generation did start.	

Service Area	579 Old Crow	
Date Reported	2011-08-23	Time Reported 5:00
Outage Number	PTM00111	Time Interrupted 2:46
Planned	Unplanned	Time Restored 2:48
Sub Number		Primary Cause 21 YECL Plant Outage
Line Number	0L	CEA Coding Loss of Supply - Yukon Electrical
Location	Old Crow	
	# of Customers 756	
	Avg. Customer Duration 0.03	
	Explanations Comments Voltage regulator on Unit #3 failed causing over voltage trips on the plant feeders. Other units came on line to supply the town.	

Board Report (>50 custs)



Service Area

of Customers 112
Avg. Customer Duration 7.54

Date Reported 2011-08-25 Time Reported 12:30
 Outage Number RTW00230 Time Interrupted 12:00
 Planned Unplanned Time Restored 3:00
 Sub Number Primary Cause 22 YEC Generation/Transm
 Line Number 0L CEA Coding Loss of Supply - Yukon Energy
 Location

Explanations Comments
 Yukon Energy Corporation lost 2 structures in swamp area interrupting feed into Keno City. Whitehorse servicemen hauled in back up mobile generator to feed Keno until YEC was able to restore the community to the grid late the next day.

Service Area

of Customers 56
Avg. Customer Duration 0.68

Date Reported 2011-09-29 Time Reported 12:20
 Outage Number DRR00251A Time Interrupted 12:04
 Planned Unplanned Time Restored 12:45
 Sub Number Primary Cause 22 YEC Generation/Transm
 Line Number 0L CEA Coding Loss of Supply - Yukon Energy
 Location

Explanations Comments
 Power outage due to loss of supply from YEC caused a 40 minute outage to Keno City

Service Area

of Customers 218
Avg. Customer Duration 0.08

Date Reported 2011-07-06 Time Reported 20:15
 Outage Number WAF110706-582 Time Interrupted 20:15
 Planned Unplanned Time Restored : 0
 Sub Number Primary Cause 22 YEC Generation/Transm
 Line Number 5L618 CEA Coding Loss of Supply - Yukon Energy
 Location

Explanations Comments
 Conductor down on the 138KV line near the sewage lagoon caused a blackout on the WAF System. Backup generation did start.

Board Report (>50 custs)



Service Area	582 Ross River	
Date Reported	2011-07-31	Time Reported 11:00
Outage Number	RSM00164C	Time Interrupted 11:00
Planned	Unplanned	Time Restored 11:02
Sub Number	19	Primary Cause 22 YEC Generation/Transm
Line Number	L170	CEA Coding Loss of Supply - Yukon Energy
Location		
	# of Customers	219
	Avg. Customer Duration	0.03
	Explanations Comments YEC lost L170 causing a brief outage to Ross River	

Service Area	583 Pelly Crossing	
Date Reported	2011-07-31	Time Reported 11:00
Outage Number	RSM00164A	Time Interrupted 11:00
Planned	Unplanned	Time Restored 11:02
Sub Number	304	Primary Cause 22 YEC Generation/Transm
Line Number	L170	CEA Coding Loss of Supply - Yukon Energy
Location	Pelly Crossing	
	# of Customers	179
	Avg. Customer Duration	0.03
	Explanations Comments YEC lost L170 causing a brief outage to Pelly Crossing	

Service Area	583 Pelly Crossing	
Date Reported	2011-09-13	Time Reported 18:15
Outage Number	DJC00061	Time Interrupted 18:04
Planned	Unplanned	Time Restored 18:27
Sub Number	304	Primary Cause 18 Fire
Line Number	3L407	CEA Coding Adverse Environment
Location	Pelly Crossing	
	# of Customers	179
	Avg. Customer Duration	0.38
	Explanations Comments Yukon Energy Corporation isolated the line due to a forest fire. Customer called in without power, YEC put power plant on line.	

Board Report (>50 custs)



Service Area	585 Tagish				
Date Reported	2011-07-06	Time Reported	20:15	# of Customers	373
Outage Number	WAF110706-585	Time Interrupted	20:15	Avg. Customer Duration	0.97
Planned	Unplanned	Time Restored	: 0	Explanations Comments Conductor down on the 138kV line near the sewage lagoon caused a blackout on the WAF System.	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	5L600	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Service Area	585 Tagish				
Date Reported	2011-07-19	Time Reported	3:45	# of Customers	373
Outage Number	WAF110719-585	Time Interrupted	3:45	Avg. Customer Duration	0.75
Planned	Unplanned	Time Restored	: 0	Explanations Comments YEC loss of generation caused outages to Stage 1, 2 & 3. System was restored in stages	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	5L600	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Service Area	592 Marsh Lake				
Date Reported	2011-07-06	Time Reported	20:15	# of Customers	458
Outage Number	WAF110706-592	Time Interrupted	20:15	Avg. Customer Duration	0.97
Planned	Unplanned	Time Restored	: 0	Explanations Comments Conductor down on the 138kV line near the sewage lagoon caused a blackout on the WAF System.	
Sub Number		Primary Cause	22 YEC Generation/Transm		
Line Number	9L	CEA Coding	Loss of Supply - Yukon Energy		
Location					

Board Report (>50 custs)



Service Area

Date Reported 2011-07-19 Time Reported 3:45

Outage Number WAF10719-592 Time Interrupted 3:45

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 0.78

Explanations Comments

YEC loss of generation caused outages to Stage 1, 2 & 3. System was restored in stages.