

ATCO *Electric*

YUKON

April 24, 2018

Yukon Utilities Board
P.O. Box 31728
Whitehorse, Yukon Y1A 6L3

Attention: Deana Lemke, Yukon Utilities Board Executive Secretary

Dear Deana:

Re: Service Interruptions

In accordance with Board Decision 1989-5, attached is the summary of major unplanned outages for the months of Jan, Feb and March of 2018. 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 633-7080, if you require any additional information or clarification.

Yours Sincerely,

ATCO Electric Yukon



Fdv. Jay Massie,
Manager

JM:cm
Encl.

YUBlyub interruption report

Outages

Service Area 573 Watson Lake
 Date Reported 2018-01-05
 Outage Number CGK00080
 Planned Unplanned
 Sub Number 31 Watson Lake
 Line Number 5L620

Location Watson Lake
 City/Town Watson Lake
 Time Reported 6:58
 First Interruption 6:58
 Last Restoration 9:44
 Primary Cause 4 Icing
 CEA Coding Adverse Weather

Customer-Hrs of Interruption 666:46
 Number of Customers Affected 241
 Avg. Customer Outage Duration 2:46

Explanations and Comments

c phase broke mid span due to snow loading and was laying in the snow energized.

Service Area 591 Upper Liard
 Date Reported 2018-01-05
 Outage Number CGK00081
 Planned Unplanned
 Sub Number 31 Watson Lake
 Line Number 5L620

Location Upper Liard
 City/Town Upper liard
 Time Reported 6:58
 First Interruption 8:04
 Last Restoration 9:44
 Primary Cause 4 Icing
 CEA Coding Adverse Weather

Customer-Hrs of Interruption 24650:00
 Number of Customers Affected 102
 Avg. Customer Outage Duration 241:40

Explanations and Comments

As per CGK00080

Service Area 573 Watson Lake
 Date Reported 2018-01-05
 Outage Number CGK00082
 Planned Unplanned
 Sub Number 31 Watson Lake
 Line Number 5L621

Location Watson Lake
 City/Town Watson Lake
 Time Reported 11:08
 First Interruption 11:08
 Last Restoration 11:19
 Primary Cause 4 Icing
 CEA Coding Adverse Weather

Customer-Hrs of Interruption 63:04
 Number of Customers Affected 344
 Avg. Customer Outage Duration 0:11

Explanations and Comments

Snow loading caused two phase to contact.

Service Area 573 Watson Lake
 Date Reported 2018-01-05
 Outage Number CGK00083
 Planned Unplanned
 Sub Number 31 Watson Lake
 Line Number 5L621

Location Watson Lake
 City/Town Watson Lake
 Time Reported 12:00
 First Interruption 12:30
 Last Restoration 14:15
 Primary Cause 8 Equipment Failure
 CEA Coding Defective Equipment

Customer-Hrs of Interruption 602:00
 Number of Customers Affected 344
 Avg. Customer Outage Duration 1:45

Explanations and Comments

Compression sleeve failed mid span.

Outages

Service Area	591 Upper Liard	Location	Upper Liard	Customer-Hrs of Interruption	117:18
Date Reported	2018-01-08	City/Town	Watson Lake	Number of Customers Affected	102
Outage Number	CGK00091	Time Reported	14:40	Avg. Customer Outage Duration	1:09
Planned	Unplanned	First Interruption	14:02	Explanations and Comments See CGK00090	
Sub Number	31 Watson Lake	Last Restoration	15:11		
Line Number	5L620	Primary Cause	CEA Coding		

Service Area	573 Watson Lake	Location	Lower Post	Customer-Hrs of Interruption	194:22
Date Reported	2018-01-15	City/Town	Lower Post	Number of Customers Affected	98
Outage Number	CGK00095	Time Reported	10:46	Avg. Customer Outage Duration	1:59
Planned	Unplanned	First Interruption	10:46	Explanations and Comments Snow loading falling off the lines caused center phase to touch the neutral and open the OCR	
Sub Number	31 Watson Lake	Last Restoration	12:45		
Line Number	5L619	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		

Service Area	590 Lower Post	Location	Lower Post	Customer-Hrs of Interruption	365:52
Date Reported	2018-01-21	City/Town	Watson Lake	Number of Customers Affected	98
Outage Number	CGK00098	Time Reported	18:19	Avg. Customer Outage Duration	3:44
Planned	Unplanned	First Interruption	17:57	Explanations and Comments Snow loading caused center phase to contact the neutral.	
Sub Number	31 Watson Lake	Last Restoration	21:41		
Line Number	5L619	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		

Service Area	573 Watson Lake	Location	Watson Lake	Customer-Hrs of Interruption	315:20
Date Reported	2018-01-21	City/Town	Watson Lake	Number of Customers Affected	344
Outage Number	CGK00099	Time Reported	21:30	Avg. Customer Outage Duration	0:55
Planned	Unplanned	First Interruption	20:53	Explanations and Comments Snow loading caused a phase to phase contact.	
Sub Number	31 Watson Lake	Last Restoration	21:48		
Line Number	5L621	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		

Outages

Service Area	573 Watson Lake	Location	Watson Lake	Customer-Hrs of Interruption	389:52
Date Reported	2018-02-28	City/Town	Watson lake	Number of Customers Affected	344
Outage Number	CGK00111	Time Reported	19:13	Avg. Customer Outage Duration	1:08
Planned	Unplanned	First Interruption	19:10	Explanations and Comments Snow loading comming of the powerlines in the high winds caused a phase to ground fault.	
Sub Number	31 Watson Lake	Last Restoration	20:18		
Line Number	5L621	Primary Cause	3 Wind		
		CEA Coding	Adverse Weather		
Service Area	571 Whitehorse	Location	Wh-Lobird	Customer-Hrs of Interruption	66:40
Date Reported	2018-01-01	City/Town	lobird trailer park	Number of Customers Affected	50
Outage Number	DLM00104	Time Reported	8:00	Avg. Customer Outage Duration	1:20
Planned	Unplanned	First Interruption	7:50	Explanations and Comments Wind caused phase to phase slapping when ice was coming off the line.	
Sub Number	29 Arkell	Last Restoration	9:10		
Line Number	5L630	Primary Cause	3 Wind		
		CEA Coding	Adverse Weather		
Service Area	571 Whitehorse	Location	Wh-Lobird	Customer-Hrs of Interruption	25:00
Date Reported	2018-01-01	City/Town	lobird trailer park	Number of Customers Affected	50
Outage Number	DLM00105	Time Reported	20:50	Avg. Customer Outage Duration	:30
Planned	Unplanned	First Interruption	20:45	Explanations and Comments Wind caused phase to phase contact when ice was coming off the line. Knocked off frost in bad areas.	
Sub Number	29 Arkell	Last Restoration	21:15		
Line Number	5L630	Primary Cause	3 Wind		
		CEA Coding	Adverse Weather		
Service Area	573 Watson Lake	Location	Watson Lake	Customer-Hrs of Interruption	34:24
Date Reported	2018-01-31	City/Town	Watson Lake	Number of Customers Affected	344
Outage Number	MPJ00260	Time Reported	14:32	Avg. Customer Outage Duration	:06
Planned	Unplanned	First Interruption	14:32	Explanations and Comments Outage caused by frost on the lines. Opened breaker, closed and it held.	
Sub Number	31 Watson Lake	Last Restoration	14:38		
Line Number	5L621	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		

Outages

Service Area	578 Beaver Creek	Location	Beaver Creek	Customer-Hrs of Interruption	5:57
Date Reported	2018-01-03	City/Town #2		Number of Customers Affected	119
Outage Number	RAF00114	Time Reported	11:35	Avg. Customer Outage Duration	:03
Planned	Unplanned	First Interruption	10:26	<div style="border: 1px solid black; padding: 5px;"> Explanations and Comments Outage caused by coolant pump failure on Unit #2. Plant operator put unit on line. </div>	
Sub Number		Last Restoration	10:29		
Line Number		Primary Cause	8 Equipment Failure		
		CEA Coding	Defective Equipment		

Service Area	579 Old Crow	Location	Old Crow	Customer-Hrs of Interruption	9:51
Date Reported	2018-01-05	City/Town	Old Crow	Number of Customers Affected	197
Outage Number	RAF00115	Time Reported	7:31	Avg. Customer Outage Duration	0:03
Planned	Unplanned	First Interruption	7:31	<div style="border: 1px solid black; padding: 5px;"> Explanations and Comments Unit 4 charge air circuit over temperature </div>	
Sub Number		Last Restoration	7:34		
Line Number		Primary Cause	21 YECL Plant Outage		
		CEA Coding	Loss of Supply - Yukon Elec		

Service Area	579 Old Crow	Location	Old Crow	Customer-Hrs of Interruption	9:51
Date Reported	2018-01-11	City/Town	Old Crow	Number of Customers Affected	197
Outage Number	RAF00116	Time Reported	22:54	Avg. Customer Outage Duration	0:03
Planned	Unplanned	First Interruption	22:54	<div style="border: 1px solid black; padding: 5px;"> Explanations and Comments Unit 1 shutdown, unknown reason </div>	
Sub Number		Last Restoration	22:57		
Line Number		Primary Cause	21 YECL Plant Outage		
		CEA Coding	Loss of Supply - Yukon Elec		

Service Area	579 Old Crow	Location	Old Crow	Customer-Hrs of Interruption	6:34
Date Reported	2018-01-12	City/Town	Old Crow	Number of Customers Affected	197
Outage Number	RAF00117	Time Reported	16:07	Avg. Customer Outage Duration	0:02
Planned	Unplanned	First Interruption	16:07	<div style="border: 1px solid black; padding: 5px;"> Explanations and Comments Unit 1 shutdown, unknown reason </div>	
Sub Number		Last Restoration	16:09		
Line Number		Primary Cause	21 YECL Plant Outage		
		CEA Coding	Loss of Supply - Yukon Elec		

Outages

Service Area	571 Whitehorse	Location	Wh-Downtown	Customer-Hrs of Interruption	727:27
Date Reported	2018-03-24	City/Town	Whitehorse	Number of Customers Affected	743
Outage Number	RJZ00538	Time Reported	11:55	Avg. Customer Outage Duration	:58
Planned	Unplanned	First Interruption	11:43	Explanations and Comments A large bird got caught between phases on a structure inside S150 causing an outage to our 34Kv feed. MWR being created to change structure.	
Sub Number	S150 Whitehorse	Last Restoration	12:55		
Line Number	6L10	Primary Cause	9 Bird/Animal		
		CEA Coding	Foreign Interference		
Service Area	571 Whitehorse	Location	Wh-Multiple Areas	Customer-Hrs of Interruption	3524:16
Date Reported	2018-01-05	City/Town	Whitehorse	Number of Customers Affected	826
Outage Number	RSM00520	Time Reported	15:30	Avg. Customer Outage Duration	4:16
Planned	Unplanned	First Interruption	15:30	Explanations and Comments Hoar frost build up on 6L19 caused outage to breaker S6840, crews removed frost & reenergized.	
Sub Number	S150 Whitehorse	Last Restoration	19:46		
Line Number	6L19	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		
Service Area	576 Teslin	Location	Teslin	Customer-Hrs of Interruption	13:15
Date Reported	2018-01-05	City/Town	Teslin	Number of Customers Affected	265
Outage Number	RSM00521	Time Reported	15:30	Avg. Customer Outage Duration	0:03
Planned	Unplanned	First Interruption	15:30	Explanations and Comments Outage to 6L19 caused Teslin generator to come online, 3 minute outage	
Sub Number	27 Teslin	Last Restoration	15:33		
Line Number	5L615	Primary Cause	4 Icing		
		CEA Coding	Adverse Weather		
Service Area	571 Whitehorse	Location	Wh-Tak, Hot Springs Rd.	Customer-Hrs of Interruption	358:45
Date Reported	2018-02-02	City/Town	Whitehorse	Number of Customers Affected	175
Outage Number	RSM00522	Time Reported	8:30	Avg. Customer Outage Duration	2:03
Planned	Unplanned	First Interruption	8:30	Explanations and Comments Wire down on the hot springs rd. VTR S3100 opened, conductor was repaired and line was re-energized. -40 degree temps	
Sub Number	21 LaBerge	Last Restoration	10:33		
Line Number	5L645	Primary Cause	8 Equipment Failure		
		CEA Coding	Defective Equipment		