



The Yukon Electrical Company Limited
An ATCO Company

October 14, 2009

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

Attention: Shay Smart, Yukon Utilities Board Secretariat

Dear Shay:

Re: Service Interruptions

In accordance with Board Decision 1989-5, attached is the summary of major outages for the months of July, August and September 2009. 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

for Jerome Babyn,
General Manager

JB:cm
Encl.

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SUMMARY OF MAJOR OUTAGES

JULY	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
3rd	11:10 TO 11:13	CARMACKS	CARMACKS	291	00:03	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency. SCC manually opened S150-52-17. L170 problems caused Carmacks to experience a brief outage until standby generation came on line.	DRR00183
9th	14:20 to 14:25	CARMACKS	CARMACKS	291	00:05	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped their L170 line causing breakers S150-52-22 & S6838 to open. Brief outage to Carmacks until the standby generator came on line.	DRR00185
9th	15:21 to 15:26	CARMACKS	CARMACKS	291	00:05	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped their L170 line causing breakers S150-52-22 & S6838 to open. Brief outage to Carmacks until the standby generator came on line.	DRR00186
12th	21:40 to 21:48	CARMACKS	CARMACKS	291	00:08	Partial grid outage. Overcurrent on S9815 caused YEC's breakers to open resulting in power outage to McIntyre Substaton. L170 problems caused Carmacks to experience a brief outage until standby generation came on line, restored to the Grid within 8 minutes.	AMI00083
15th	11:33 to 11:38	CARMACKS	CARMACKS	291	00:05	YEC L170 went off due to lightening causing outage in Carmacks, Deep Cr, & Pelly	RJZ00201
3rd	11:10 to 11:15	CARCROSS	CARCROSS	303	00:05	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency. SCC manually opened S150-52-17.	DRR00183
14th	09:00 to 11:05	DEEP CREEK	DEEP CREEK	45	02:05	Bird on transformer caused the fuse to blow	MOB00033
15th	11:33 to 11:43	DEEP CREEK	DEEP CREEK	45	00:10	YEC L170 went off due to lightening causing outage in Carmacks, Deep Cr, & Pelly	RJZ00201
4th	17:40 to 17:43	HAINES JUNCTION	BEAVER CREEK	119	00:03	Town outage caused when a tree hit the line and Unit #2 tripped off line on over current, plant PLC restored power	PTM00077
6th	18:59 to 19:35	HAINES JUNCTION	Haines Junction	278, 199	00:08 & 00:36	YEC L355 line to Haines Junction tripped off,. SCC was able to restore power. S9292 in Haines Junction did not close automatically, serviceman dispatched to site to close manually.	TGG00158
16th	14:30 to 14:45	HAINES JUNCTION	Haines Junction	133	00:15	Raven contacted S9292, breaker opened causing outage to part of Haines Junction	PTM00078
3rd	11:10 to 11:15	MARSH LAKE	MARSH LAKE	447	00:05	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency. SCC manually opened S150-52-17.	DRR00183
11th	08:10 to 09:35	MARSH LAKE	MARSH LAKE	447	01:25	Breakers S6840 & S9567 tripped, fuse blown by a bird at Squanga, line was on single non reclosure due to extreme forest fire rating	AMI00082
3rd	11:10 to 11:26	PELLY CROSSING	PELLY CROSSING	177	00:16	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency. SCC manually opened S150-52-17. L170 problems caused Pelly to experience a brief outage until standby generation came on line.	DRR00183
9th	14:20 to 15:10	PELLY CROSSING	PELLY CROSSING	177	00:50	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency. SCC manually opened S150-52-17. L170 problems caused Pelly to experience a brief outage until standby generation came on line.	DRR00185

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JULY	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
9th	16:51 to 16:53	PELLY CROSSING	PELLY CROSSING	177	00:02	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped the 138kV line causing breakers S150-52-22 & S6838 to open. Pelly remained on back up until after the second partial outage to the grid. Brief outage to restore Pelly Crossing to the Grid.	DRR00186
12th	21:40 to 23:24	PELLY CROSSING	PELLY CROSSING	177	00:35	Partial grid outage. Overcurrent on S9815 caused YEC's breakers to open resulting in power outage to McIntyre Substaton. L170 problems caused Pelly to experience a brief outage until standby generation came on line, restored to the Grid within 8 minutes.	AMI000083
15th	11:33 to 11:37	PELLY CROSSING	PELLY CROSSING	177	00:04 & 00:02	YEC L170 went off due to lightening causing outage in Carmacks, Deep Cr, & Pelly. Brief outage to Pelly to return to the Grid.	RJZ00201
13th	13:44 to 13:46	PELLY CROSSING	PELLY CROSSING	177	00:04 & 00:02	YEC L170 went off due to lightening causing outage in Carmacks, Deep Cr, & Pelly. Brief outage to Pelly to return to the Grid.	RJZ00201
13th	14:30 to 15:45	ROSS RIVER	ROSS RIVER	218	01:15	Planned power outage required to install new equipment	THB00172
13th	14:30 to 17:10	ROSS RIVER	ROSS RIVER	218	02:40	Planned power outage required to install new equipment	THB00173
13th	13:37 to 13:51	ROSS RIVER	ROSS RIVER	218	00:14	Planned power outage to return Ross River to the WAF grid after maintenance	THB00174
3rd	11:10 to 11:15	TAGISH	TAGISH	371	00:05	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency.SCC manually opened S150-52-17.	DRR00183
3rd	11:10 to 11:15	TESLIN	TESLIN	252 & 89	00:05 & 00:13	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency.SCC manually opened S150-52-17. Village of Teslin had a brief outage before standby generation came on, Alaska Hwy S customers energized when breaker was closed back in.	DRR00183
9th	14:20 to 14:27	TESLIN	TESLIN	252	00:06	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped the 138kV line causing breakers S150-52-22 & S6838 to open. Brief outage to Teslin until the standby generator came on line.	DRR00185
9th	15:21 to 15:28	TESLIN	TESLIN	252	00:07	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped the 138kV line causing breakers S150-52-22 & S6838 to open. Brief outage to Teslin until the standby generator came on line for the second time.	DRR00186
11th	08:10 to 09:35	TESLIN	Alaska Hwy S & Cottage Lots	89	01:25	Breakers S6840 & S9567 tripped, fuse blown by a bird at Squanga, line was on single non reclosure due to extreme forest fire rating	AMI00082
2nd	14:00 to 15:28	WATSON LAKE	UPPER LIARD	70	01:28	Outage taken to safely remove trees near the primary lines	RSM00093
3rd	11:10 to 11:23	WHITEHORSE	Copperridge, Granger, Riverdale, Alaska Hwy S	1175, 980, 2334=4489	00:10 to 00:13	Partial grid outage when breaker S150-52-18 tripped on overcurrent & S150-52-22 tripped on under frequency.SCC manually opened S150-52-17.	DRR00183
9th	14:20 to 14:53	WHITEHORSE	Porter Creek, Crestview, Alaska Hwy N & S, N & S Klondike Hwys, Tagish, Tagish Rd, Carcross	492, 645, 1065,303, 371, 447=3325	00:13 to 00:33	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped the 138kV line causing breakers S150-52-22 & S6838 to open.	DRR00185

SUMMARY OF MAJOR OUTAGES

JULY	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
9th	15:21 to 15:48	WHITEHORSE	Porter Creek, Crestview, Alaska Hwy N & S, N & S Klondike Hwys, Tagish, Tagish Rd, Carcross	492, 645, 1065, 303, 371, 447=3325	00:13 to 00:27	Partial grid outage. YEC reported a lightening strike north of Whitehorse which tripped the 138kV line causing breakers S150-52-22 & S6838 to open, for the second time.	DRR00186
11th	08:10 to 09:35	WHITEHORSE	Alaska Hwy S	447	01:25	Breakers S6840 & S9567 tripped, fuse blown by a bird at Squanga, line was on single non reclosure due to extreme forest fire rating	AMI00082
12th	21:40 to 22:21	WHITEHORSE	Alaska Hwy N, Porter Creek, Crestview, Hillcrest, Marwell Ind, part of Downtown	492, 645, 1065, 215, 415, 1013, 170, 234, 20, 715=4984	00:29 to 00:41	Partial grid outage. Overcurrent on S9815 caused YEC breaker for McIntyre Substaton to open.	AMI00083
29th	04:00 to 06:00	WHITEHORSE	Riverdale	1929	02:00	Planned power outage to set double circuit pole in line & to perform maintenance	THB00176
29th	04:51 to 05:17	WHITEHORSE	Airport area, Hillcrest, Range Rd, Valleyview, Takhini, Kopper King area	1013	00:26	Vehicle rolled into ditch damaging guywire, guywire broke & flew up into hot phases causing an outage to breaker S8358	THB00177

SUMMARY OF MAJOR OUTAGES

AUGUST	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
23rd	12:15 to 12:20	CARCROSS	CARCROSS	303	00:05	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Carcross experienced a brief outage until the pole was isolated from the system .	BSP00168
17th	16:49 to 16:55	CARMACKS	CARMACKS	291	00:06	Yukon Energy Corportion's L170 tripped off line causing a brief outage to Carmacks until the diesel standby came on line.	RJZ00204
23rd	12:15 to 12:20	CARMACKS	CARMACKS	291	00:05	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Carmacks experienced a brief outage until standby came on line, due to disruption of the grid.	BSP00168
17th	12:50 to 13:15	HAINES JUNCTION	HAINES JUNCTION	472	00:25	Haines Junction experienced an outage when main breaker opened. Service patrolled lines, no cause found, re energized	TGG00163
20th	12:27 to 12:33	HAINES JUNCTION	HAINES JUNCTION	472	00:06	Fault occurred on the main line of YEC's from Aishihik caused the breaker to open. Community experienced a brief outage until standby came on line.	NC000011
23rd	12:15 to 19:55	MARSH LAKE	MARSH LAKE	447	07:40	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid as crew replaced pole.	BSP00168
17th	16:49 to 17:50	PELLEY CROSSING	PELLEY CROSSING	177	00:21	Yukon Energy Corportion's L170 tripped off line causing a brief outage to Pelly Crossing until the diesel standby came on line.	RJZ00204
23rd	12:15 to 13:05	PELLEY CROSSING	PELLEY CROSSING	177	00:50	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Pelly Crossing experienced an outage until standby came on line due to disruption on the grid.	BSP00168
8th	07:15 to 09:15	ROSS RIVER	ROSS RIVER	218	02:00	Town feeder breaker opened on an unknown fault causing an outage to the community. Patrolled, nothing found, & re energized the breaker	THB00185
17th	16:49 to 16:55	ROSS RIVER	ROSS RIVER	218	00:06	Yukon Energy Corportion's L170 tripped off line causing a brief outage to Ross River until the diesel standby came on line.	RJZ00204
23rd	12:15 to 12:20	TAGISH	TAGISH	371	00:05	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Tagish experienced a brief outage until the pole was isolated from the system .	BSP00168
23rd	12:15 to 12:20 & to 19:55	TESLIN	Alaska Hwy S & Cottage Lots	252 & 89	00:05 & 07:32	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Teslin experienced a brief outage until standby came on line. Alaska Hwy South customers were off until pole was replaced.	BSP00168
6th	04:30 to 06:17	WATSON LAKE	WATSON LAKE	52	01:47	Planned outage to upgrade electrical equipment & perform maintenance	THB00183

SUMMARY OF MAJOR OUTAGES

AUGUST	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
21st	06:27 to 08:13	WATSON LAKE	Watson Lake, Upper Liard & Lower Post	91, 116, 741=948	00:15 to 01:46	Broken insulator at Lakeview & Eighth St caused breaker to open on low frequency. Total outage to the district	JES00079
9th	16:50 to 17:15	WHITEHORSE	Downtown	585	01:25	Unknown fault on S1016 out of Shipyard Substation caused an outage to part of downtown Whitehorse. Patrolled and re energized the breaker, no cause was found.	THB00186
20th	22:00 to 23:30	WHITEHORSE	Downtown	200	01:30	Planned power outage to replace equipment in Services Substation	GLP00002
23rd	12:15 to 12:20 & to 13:25	WHITEHORSE	Riverdale & McCrae to Lewes Rvr Bridge	1929 & 961	00:05 & 01:05	Heavy rains & failed insulator caused the power to track on pole & catch fire. Structure had to be replaced. Extended outages to part of the grid. Riverdale experienced a brief outage as grid was disrupted by the fault .	BSP00168
28th	09:00 to 11:30	WHITEHORSE	Wolf Creek Subd	138	02:30	Planned power outage to do maintenance at various locations in Wolf Creek	AMI00088

SUMMARY OF MAJOR OUTAGES

SEPTEMBER	TIME	COMMUNITY/& or DISTRICT	AREA	NUMBER OF CUSTOMERS	DURATION - hours & minutes	CAUSE	DIR #
14th	23:13 to 23:22	CARCROSS	Carcross	303	00:09	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
14th	23:13 to 23:22	MARSH LAKE	Marsh Lake	447	00:09	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
14th	23:13 to 23:49	PELLE CROSSING	Pelly Crossing	177	0:36	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
14th	23:13 to 23:22	TAGISH	Tagish	371	00:09	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
14th	23:13 to 23:22 & 23:27	TESLIN	Alaska Hwy S & Cottage Lots	89 & 252	00:09 & 00:14	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
4th	08:55 to 09:18	WHITEHORSE	Downtown	713	00:23	Vehicle contacted a guy wire at Budget Car Rentals breaking the guy wire and shaking the pole. This caused the breaker in Services Substation to open	SS000200
10th	04:00 to 05:48	WHITEHORSE	Downtown	250	01.48	Planned power outage for new construction behind Gold Rush Inn	THB00189
14th	23:13 to 23:25 & 23:39	WHITEHORSE	McCrae to Lewes River Bridge, Riverdale, Copperridge south, Granger	1173 & 890	00:12 & 00:26	Partial grid outage when breakers opened on an under frequency trip due to WAF grid disturbance. Yukon Energy Corporation is still investigating the cause.	MOB00040
17th	13:30 to 15:45	WHITEHORSE	Takhini North	50	02:15	Planned power outage for new construction in the Takhini North Subdivision	THB00192