



General Manager
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TRANSMITTAL MEMORANDUM

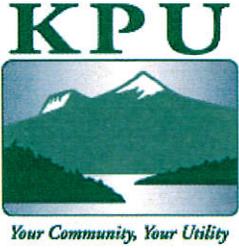
TO: The Honorable Mayor and City Council

FROM: Karl R. Amylon, General Manager

DATE: February 9, 2021

RE: **Reports of January 2, 8 and 14, 2021 Power Outages**

Attached for City Council review are memoranda from Electric System Engineering Manager Jeremy Bynum regarding the power outages of January 2, 8 and 14, 2021. Mr. Bynum and Electric Division Manager Andy Donato will attend the City Council meeting of February 18, 2021, in order to address any questions and/or concerns that Councilmembers may have.



Electric Division
 1065 Fair Street
 Ketchikan, AK 99901

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TRANSMITTAL MEMORANDUM

TO: Karl Amylon, KPU General Manager
 Lacey Simpson, Assistant KPU General Manager

FROM: Jeremy Bynum PE, Electric System Engineering Manager

DATE: January 21, 2021

SUBJECT: **Electrical Outage of January 2, 2021**

On Saturday January 2, 2021, at 11:21 AM, an outage affected electric services in Ketchikan caused by a loss of generation from Southeastern Alaska Power Agency (SEAPA).

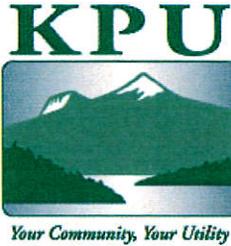
A SEAPA generator at Swan Lake (Unit No. 1) tripped offline due to a continued governor issue after performing maintenance; this caused a loss of generation in the SEAPA system. The sudden loss of approximately 10.8 MW of generation caused system instability, resulting in load shedding in Ketchikan. Five (5) KPU system feeders opened during the event causing power outages.

KPU and SEAPA operators quickly identified the issue and KPU immediately began power restoration. Initially 2,687 customers were affected by the outage. Within thirteen minutes, power was restored to all customers.

Operation Schedule

Location	Open	Close	Duration (hr:min)	Customers
Point Higgins F1S	11:21	11:33	0:12	521
Point Higgins F2N	11:21	11:34	0:13	559
KTN F3	11:21	11:30	0:09	784
MTP F1 N	11:21	11:32	0:11	303
MTP F2 S	11:21	11:31	0:10	520

Cc: Andy Donato, Electric Division Manager
 Mark Adams, Electric Division Operations Manager
 Diane Walker, Administrative Assistant



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TRANSMITTAL MEMORANDUM

TO: Karl Amylon, KPU General Manager
Lacey Simpson, Assistant KPU General Manager

FROM: Jeremy Bynum PE, Electric System Engineering Manager

DATE: February 8, 2021

SUBJECT: **Electrical Outage of January 8, 2021**

On Friday, January 8, 2021, at 10:00 AM, an outage affected electric services fed from the Ward Cove Substation.

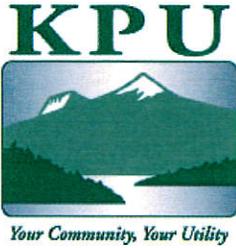
The outage was caused by a windblown tree that fell into the Ward Cove Feeder 2-North; the tree caused a phase-to-phase fault that was cleared by the Ward Cove Substation 34.5kV Tie Breaker; this caused an outage for services fed from the Ward Cove Substation. KPU crews responded to the scene, cut the fallen tree clear of the lines and made repairs.

KPU operators and crews quickly identified the issue and immediately began power restoration. Initially 731 Customers were affected by the outage. Within fifty-three (53) minutes, power was restored to all Customers.

Operation Schedule

Location	Open	Close	Duration (hr:min)	Customers
Ward Cove F1S	10:00	10:53	0:53	294
Ward Cove F2N	10:00	10:47	0:47	437

Cc: Andy Donato, Electric Division Manager
Mark Adams, Electric Division Operations Manager
Diane Walker, Administrative Assistant



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TRANSMITTAL MEMORANDUM

TO: Karl Amylon, KPU General Manager
 Lacey Simpson, Assistant KPU General Manager

FROM: Jeremy Bynum PE, Electric System Engineering Manager

DATE: February 8, 2021

SUBJECT: **Electrical Outage of January 14, 2021**

On Thursday, January 14, 2021, at 4:50 PM, an outage affected electric services fed from the Ketchikan Substation.

The outage was caused by a windblown tree that fell into Ketchikan Feeder 2 on Deermont Street; the tree caused a phase-to-phase fault that was cleared by Feeder 2; this caused an outage for services in the downtown area. KPU crews responded to the scene, ensured the fallen tree was clear of the lines and made repairs.

KPU operators and crews quickly identified the issue and immediately began power restoration. Initially 582 Customers were affected by the outage. Within one hour fifty-five minutes (1:55), power was restored to the majority of Customers; approximate 60 customers in the immediate area of the tree damage had power restored at 10:24 PM and the system was returned to normal.

Operation Schedule

Location	Open	Close	Duration (hr:min)	Customers
Ketchikan F2 tied to F4	16:50	18:45	1:55	~522
Ketchikan F2 (fully restored)	16:50	22:24	5:34	~60

Cc: Andy Donato, Electric Division Manager
 Mark Adams, Electric Division Operations Manager
 Diane Walker, Administrative Assistant