



General Manager
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| TRANSMITTAL MEMORANDUM |
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TO: The Honorable Mayor and City Council

FROM: Lacey G. Simpson, Acting General Manager

DATE: September 7, 2022

RE: **Reports of August 3 and August 6, 2022 Power Outages**

Attached for City Council review is a memorandum from Acting Electric Division Manager Jeremy Bynum regarding the power outages of August 3 and August 6, 2022. Mr. Bynum will be attending the City Council meeting of September 15, 2022, 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: Lacey Simpson, Acting KPU General Manager

FROM: Jeremy Bynum PE, Acting Electric Division Manager

DATE: August 12, 2022

SUBJECT: Electrical Outage of August 3, 2022

On Wednesday August 3, 2022, at 6:53 AM, an outage affected all electric services north of Ketchikan and parts of Gravina Island. This outage was caused by a suspected avian contact with the 34.5kV system at or near Lewis Reef Substation.

The suspected avian contact caused protective relaying at Baily Powerplant to open the 34.5kV North Tie Breaker disconnecting power from three substations: Lewis Reef, North Point Higgins, and Ward Cove. No equipment was damaged during the event.

KPU operators and crews identified the issue and immediately began power restoration. The power restoration process took additional time due to the nature of the outage location. Initially 1,884 customers were affected by the outage. Within one hour twenty-one minutes, power was restored to all customers.

Operation Schedule

| Location | Open | Close | Duration (hr:min) | Customers |
|-------------------|------|-------|-------------------|-----------|
| Point Higgins F1S | 6:53 | 8:12 | 1:19 | 553 |
| Point Higgins F2N | 6:53 | 8:09 | 1:16 | 533 |
| Ward Cove F1S | 6:53 | 8:14 | 1:21 | 308 |
| Ward Cove F2N | 6:53 | 8:08 | 1:15 | 484 |
| Gravina Tie | 6:53 | 8:14 | 1:21 | 6 |

Cc: Mark Adams, Electric Division Operations Manager
Kim Hendricks, Administrative Assistant
GMO, Administrative Assistant



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TRANSMITTAL MEMORANDUM

TO: Lacey Simpson, Acting KPU General Manager

FROM: Jeremy Bynum PE, Acting Electric Division Manager

DATE: August 16, 2022

SUBJECT: Electrical Outage of August 8, 2022

On Saturday, August 6, 2021, at 6:07 AM, an outage affected three (3) substations and electric services in Ketchikan. An avian contact with the 34.5kV system within the Ketchikan substation caused the outage.

The contact caused protective relaying to open system 12.46kV feeders and 34.5kV tiebreakers causing a power outage.

KPU operators and crews quickly identified the issue and immediately began power restoration. The power restoration process takes time because generation has to be restored in a controlled manner; feeders in the system are closed in a step-by-step process to restore system stability.

Initially, the outage affected 5,007 customers. Within one hour thirty-six minutes, power was restored to all customers.

Operation Schedule

| Location | Open | Close | Duration (hr:min) | Customers |
|-------------------------|------|-------|-------------------|-----------|
| Bethe F1J | 6:07 | 7:26 | 1:19 | 945 |
| Bethe F4T | 6:07 | 7:40 | 1:33 | 630 |
| Be Sectionalizer | 6:07 | 7:43 | 1:36 | - |
| Port West Sectionalizer | 6:07 | 7:42 | 1:35 | 1044 |
| Port West F-3 M | 6:07 | 7:43 | 1:36 | 55 |
| KTN F1 | 6:07 | 7:14 | 1:07 | 633 |
| KTN F2 | 6:07 | 7:16 | 1:09 | 582 |
| KTN F3 | 6:07 | 7:19 | 1:12 | 784 |
| KTN F4 | 6:07 | 7:36 | 1:29 | 334 |

Cc: Mark Adams, Electric Division Operations Manager
Kim Hendricks, Administrative Assistant
GMO, Administrative Assistant