



KEA NEWSLINE

Kodiak Electric Association, Inc.
P.O. Box 787 * Kodiak, AK
(907) 486-7700 Kodiak
(907) 454-2229 Port Lions
www.kodiakelectric.com

MEMBER NEWSLETTER

NOVEMBER 2011

WORKING THE TRANSMISSION LINE Our Progress in Pictures



Left: Linemen and equipment are dropped off by helicopter. The crew cut a quarter mile path through the alders to reach the structure. **Center:** Lineman Ed Hall installs steel ladders in 5 foot sections to ascend and descend the tower. **Right:** Line Foreman Dirk Williams and Lineman Ed Hall prepare to lower the top conductor to perform conductor repair.



Left: Line Foreman Dirk Williams and Lineman Ed Hall have lowered the conductor to a position it can be worked on. **Center:** Line Foreman Dirk Williams prepares to go "out on the wire" with assistance from Lineman Ed Hall. **Right:** Line Foreman Dirk Williams repairs damaged strands mid-span 200 feet from the structure, high over a 300 foot canyon.



Left: Line Foreman Dirk Williams installs armor rod over the damaged section of the conductor. **Center:** A panoramic view of the installation. **Right:** Lineman Shane Lotzer, Apprentice Lineman Chul Gibbs, and Line Foreman Mike Williams hoist the new insulator strings to the lineman atop this 90 foot structure.

Maintenance on the Terror Lake Transmission Line

KEA line crews have been working hard this summer and fall to conduct maintenance on the Terror Lake transmission line. They recently completed insulator modifications on eight large towers. This project is incredibly complicated and hard work for a number of reasons. First, there is no road access along the miles of line through mountainous terrain, and our workers and equipment must be flown in by helicopter. Second, much of the work is done high in the air by hot sticking, which

..continued on page 2

IN THIS ISSUE:

Working the Transmission Line: Progress in Pictures

Terror Lake Transmission Line Maintenance

Pillar Mountain Fast Facts

Eye on Elevation

News from the Board Room

Conservation Corner

Tips for Greener and Less Costly Holiday Cooking

**BOARD OF DIRECTORS
NEXT REGULAR MEETING
November 17, 2011, noon
KEA Auditorium**

**ALL MEMBERS ARE
WELCOME TO ATTEND!**

Board of Directors

Cliff Davidson,
Chairman

Ron Acarregui,
Vice Chairman

Stosh Anderson,
Secretary/ Treasurer

LCDR Andrew Brown,
U.S.C.G. Liaison

Michael Brechan

Linda Freed

Gordon Gould

Jay Johnston

Ben Millstein

Cecil Ranney

Be sure to check out
our website for more
pictures of our
transmission line work!

www.kodiakelectric.com



Maintenance on the Terror Lake Transmission Line
...continued from page 1

is doing work safely on the “hot” system without having to disrupt service to our members. Third, the conductors are very heavy, and our linemen must be specially trained on how to position the equipment for safe placement. Fourth, weather can be an issue because some work cannot be done in wet weather. And last, but not least, this outback is Kodiak Island bear country, too!

Eighteen miles of line run from the 138 KV switchyard next to the powerhouse at the Terror Lake Hydroelectric Facility to the Airport Substation in the City of Kodiak. The line traverses terrain that varies in elevation from approximately sea level to 1,750 feet above sea level. The average span length is 900 feet and the maximum span is 1,500 feet.

The structures are fabricated of weathering steel and the structure heights vary from 40 to 106 feet above ground. The foundations consist of spread footings and rock anchors.

The Terror Lake facility is located eight miles from Port Lions, nestled in the Kizhuyak Valley, and the Terror Lake switchyard is also connected to the Village of Port Lions by a 14 mile transmission line.

Fast Facts

Pillar Mountain Wind Farm

Net kWhs Generated: 27,805,973
Est. Gallons of Diesel Saved: 1,958,167

(Data as of September 28, 2011)



**EYE ON
ELEVATION**

Terror Lake is full! This fall's bountiful rainfall boosted the lake to our spill level of 1,420 feet.

NEWS FROM THE BOARD ROOM

BOARD ACTION HIGHLIGHTS

Regular Meeting — September 22, 2011

DATES ESTABLISHED BY ACTION:

- KEA's 70th Annual Membership Meeting Date on April 30, 2012
- Date of Record on March 7, 2012
- 2012 Candidates' Forum on April 3, 2012 for KEA's 2012 Director Elections.

CONSERVATION CORNER

Tips for Greener and Less Costly Holiday Cooking

- Use the smallest appliance for the job while cooking during the holidays. Microwave ovens use less than half the energy required by a conventional oven.
- Because baking a turkey is a long, slow cook, there's no need to preheat your oven. This is also true for a holiday ham. In fact, unless you're baking breads or pastries, you may not need to preheat the oven at all.
- Bake several items at the same time and temperature. Just make sure you leave enough room for the heat to circulate around each casserole and pie plate.
- To improve oven efficiency, keep the doors closed as much as possible. Every time the door is opened, the oven loses 25 to 50 degrees, increasing cooking time and wasting energy.
- Heat can be turned off several minutes before your food is fully cooked if you use an electric oven. As long as the oven door remains closed, enough heat will be stored inside to finish cooking your meal. The same principle applies to your electric range top. The metal heating elements stay hot even after the electricity is turned off.
- Use the smallest pan and burner needed for the job. A six-inch pan on an eight-inch burner will waste more than 40 percent of the energy. Cook with lids on your pans. For example, cooking pasta without a lid on the pot can use three times as much energy.

