



Chugach Electric Association, Inc.

OUTLET

www.chugachelectric.com December 2015 Number 334

SPP continues to serve

The Southcentral Power Project continues to be Chugach's primary generation source. The 200-megawatt power plant at Chugach's headquarters complex was completed in January 2013 and is jointly owned by Chugach (70 percent) and Municipal Light & Power (30 percent). SPP is a very efficient plant, using only about three-fourths of the natural gas to produce a kilowatt-hour of energy compared to older units.

SPP contains a total of four generating units that operate in "combined cycle" mode. Three are natural gas-fired turbine-generators and the fourth is a steam turbine-generator. The 800-degree

hot exhaust of one, two or all three of the gas turbines is captured and used to produce steam for the steam turbine, thereby producing extra electricity without burning extra fuel.

The plant is clean and quiet. While it runs year-round, the 200-plus degree warm exhaust from the plant is only visible on days when the weather conditions are right. In mid-November when the accompanying photo was taken, the temperature was cold enough with an appropriate dew point so the water vapor in the exhaust was clearly visible.

To minimize down time



during maintenance, Chugach and ML&P elected to purchase a fourth gas turbine at the time the plant was built. The General Electric gas turbines are similar to the jet engines used on 747s. Exchanging engines allows the plant to return to full production while crews perform maintenance

on the swapped-out turbine.

At the time the accompanying photo was taken, one of the gas turbines was offline for an engine exchange and routine inspection after 25,000 fired-hours of service.

Construction proceeds on Hane Substation

Chugach's newest distribution substation is taking shape on the Anchorage Hillside. The facility, known as the Hane Substation, is under construction on a 2-acre parcel of land along O'Malley Road just east of Lake Otis Parkway. The transformer for the substation was placed on its foundation in late November.

Site preparation began in the summer, with crews now at work on the electrical components of the substation and the connections into and out of the new facility. Construction will continue throughout the winter and into the spring. The substation is expected to be in operation by the summer of 2016.



The transformer for the Hane Substation was placed on its foundation in late November.

Topics highlighted

Chugach held its 2015 legislative luncheon at the end of November. The annual event provides an opportunity for Chugach to share updates on current and projected legislative topics and operational activities with lawmakers, staff and community leaders. About 70 people attended the luncheon, including legislators, assembly members, community

council presidents and staff from a variety of organizations. Three topics (Railbelt grid unification, the Battle Creek diversion project and Chugach's fuel supply) were highlighted in a slide presentation, while more than two dozen



About 70 people attended Chugach's 2015 legislative luncheon.

poster boards around the room provided details on individual projects and initiatives.

Planning a project?

Chugach members planning a project that will entail a line extension to an undeveloped piece of property, or an upgrade to the service at an existing property, should contact the Engineering Department early in their planning process. Individual requirements and timelines will vary from project to project. The Engineering Project Coordinator is the point of contact, and can be reached at 762-4631.

Annual meeting and election notes

Chugach's annual membership meeting will be held on Thursday, May 19, 2016 at the Dena'ina Civic & Convention Center.

Two directors will be elected to the Chugach board in the upcoming 2016 election. {1110151}

Members who are interested in either meeting with and being considered by the Nominating committee or running by petition should call 907-762-4791 to obtain a candidate packet. Candidate applications and resumes for the Nominating

Committee's review must be received by 5 p.m. Friday, Feb. 5, 2016.

Members may submit proposed bylaw changes until 5 p.m. on Thursday, Jan. 14, 2016.

Bylaw proposals or candidate nominations

should be submitted to:

Tom Schulman
PO Box 196300
Anchorage, AK 99519-6300
tom_schulman@chugachelectric.com

More information and forms may be found at www.chugachelectric.com or by calling 907-762-4177.

Learning how to be safe around electricity

Chugach has an interactive electrical demonstration called "Safety City" that is used to raise awareness of electrical safety. The program targets 4th, 5th, and 6th grade students, coinciding with their introduction to the

principles of electricity within the Anchorage School District science curriculum.

School children and their teachers can learn about electricity and safety with a demonstration using miniature models and live electricity. It is a fun and

exciting presentation that includes segments on what to do when there are power lines near trees, a kite hangs up in an electric line, a ball or toy goes into certain types of electrical facilities, or there are electric lines laying on the

ground.

For more information on Safety City presentations, visit www.chugachelectric.com/inside-chugach/public-services or call Chugach's Safety department at 907-762-7233.

The Chugach Outlet

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Corporate Mission: Through superior service, safely provide reliable and competitively priced energy.

Corporate vision: Powering Alaska's future

Personnel policy: It is a policy of Chugach Electric Association, Inc., to recruit, hire, train, compensate and promote persons without regard to race, color, religion, national origin, sex, marital status, pregnancy, parenthood, disability, veterans status, age or any other classification protected by applicable federal, state, or local law. Chugach is also an equal opportunity/affirmative action employer. Current openings are posted on the employment page at <http://chugachelectric.com/applicantpro.com>. Chugach only accepts applications for open vacancies.

Member number hide-n-peek

Find your member number (in brackets) in the Outlet and get a \$100 credit on your electric bill. Call Chugach's service center at 563-7366 to claim your prize.

Contact us

Hours

Main number
Toll free
Member Services
Member Services fax
24-hour payment line
Credit
Power theft hotline
Danger tree hotline
Street light hotline
Underground locates
Regulatory Commission of AK
or
To report a power outage
In Anchorage
Outside Anchorage

Monday - Friday
8 a.m. - 5 p.m.
563-7494
(800) 478-7494
563-7366
762-4678
762-7803
563-5060
762-4731
762-7227
762-7676
811
(800) 390-2782
or
276-6222
762-7888
(800) 478-7494

Monthly residential service costs

(based on 650 kwh)

Customer charge/month	\$ 8.00
Energy charge \$0.11470 x kwh =	\$74.56
Fuel \$0.03394 x kwh =	\$22.06
Purchased power \$0.01106 x kwh =	\$7.19
FIW renewable energy adj. \$0.00250 x kwh =	\$1.63
<small>(Fuel, Purchased power and FIW renewable energy adjustment factors effective Oct. 1, 2015.)</small>	
Subtotal	\$113.44
2% MOA Undergrounding Charge =	\$ 2.27
Regulatory Cost Charge \$0.000732 x kwh =	\$ 0.48
Total bill	\$116.19