

JULY 2014 CONNECTION

Hello Neighbours and Friends,

It was a busy spring at the Genesee Station as we worked through a planned shutdown of Unit 2 in April and May. Although a busy time for our employees and contractors, it allowed us to complete extra work to improve the reliability of the unit.

First, I'm pleased to provide some numbers on the shutdown:

- ▣ 27 days;
- ▣ 600–700 contractors were on site each day (800–900 on site daily if employees are included);
- ▣ 0 safety and environmental incidents, and a record-low number of minor first aids;
- ▣ 100,000 (approximate) people-hours of work were completed, and;
- ▣ 5 personnel were removed from site for unsafe driving.

Lastly, the major work scope of the Genesee 3 sulfur-removal equipment testing is complete. This was in preparation to ensure compliance with the new Clean Air Strategic Alliance (CASA) limits which come into effect in 2016. This testing identified four key areas of work that will enable compliance by the required date. The work required will be completed over the next 18 months.

Read on to learn more about our continued efforts to manage the damage to the North Saskatchewan River by the spring flood last year (2013), and about the event that was hosted at the Genesee site to mark the 25th Anniversary of our operation.

My sincere wishes to you all for a safe and fun-filled summer!

Sincerely,



SEAN FUREY, Plant Manager
Genesee Generating Station, Capital Power



Sean Furey

Genesee Falcons



The falcons have returned again this year to nest in the box on the Genesee 3 stack, and all four of their eggs have hatched. Visit www.capitalpower.com/falcons to view the live falcon cam and watch the chicks grow. Note, the falcons typically return in April/May and the eggs are laid and hatch in May/June.

GENESEEE STATION

BOX 20, SITE 2, RR #1
WARBURG, ALBERTA T0C 2T0 CANADA

Update: Spring 2013 River Flood

Work continues to ensure the North Saskatchewan River flood does not impact pump-house operations. The repaired berm upstream of the river water pump house required ongoing maintenance over the winter period to address minor issues through erosion of the filled area.

Genesee Generating Station Celebrates 25 Years

Genesee's 25th anniversary celebration took place on Saturday, June 21, 2014. Over 600 community members, employees, and volunteers enjoyed an old country fair-themed celebration which featured carnival games, inflatables (bouncy houses and a zipline), hay rides, and a show-and-shine car rally.



Party goers line up at one of the six buses which ran continuous tours of the mine throughout the celebration.



There was learning involved as well, with organized plant and coal mine tours throughout the day and a booth with information from various partner organizations, including a live peregrine falcon courtesy of Dr. Gordon Court. The Warburg Hutterite colony also hosted a farmers market.



The day started off with keynote speeches from Capital Power CEO Brian Vaasjo, Genesee Plant Manager Sean Furey, and guest speaker Diana McQueen, Alberta's Energy Minister. The day marked 25 years since the completion of Genesee Unit 2*, which was commissioned in 1989 under Edmonton Power.



A group tours the plant, and crosses the Genesee 1/2 turbine hall.



"OUR EMPLOYEES TAKE ENORMOUS PRIDE IN THEIR WORK AND IT'S EVIDENT THAT THEY CARE ABOUT THE SUCCESS OF THIS OPERATION AND THE COMMUNITY. THEY KEEP THIS FACILITY CLEAN, WELL-MAINTAINED AND MOST IMPORTANTLY, THEY ARE FOCUSED ON WORKING TOGETHER SAFELY SO THEY CAN GO HOME TO THEIR FAMILIES AT THE END OF THEIR WORK DAY."

—SEAN FUREY

A special thank you to all the community volunteers who helped make this anniversary such a success, we couldn't have done it with you.

*Note: Genesee Unit 2 was commissioned before Genesee Unit 1. Genesee Unit 1 was commissioned in 1994.

NOTE: Annual Genesee Mine Tour

As a mine tour was included in the Genesee Station 25th Anniversary celebration, the annual mine tour will not be offered this year. However, the regular annual tour will resume next summer. Watch the Genesee Connection newsletter next spring for more information.

Update: Proposed Genesee Units 4 & 5 and Genesee License Renewal

The Alberta Utilities Commission and Alberta Environment and Sustainable Resource Development (ESRD) continue to review the application, and pending a successful outcome of the regulatory review, construction is expected to begin in 2015.

In conjunction with the application for Genesee Units 4 and 5, Capital Power also submitted an application to the ESRD to renew its current operating approvals for the existing units, Genesee 1, 2 and 3. This application is not to extend the life of the units, but rather Capital Power must renew its operating approvals license every ten years until the units are legislated to shut down to ensure that the station remains compliant with current requirements.

For more information on the Genesee Units 4 and 5 Project or the Genesee License Renewal, or to view the applications, please visit www.capitalpower.com, or contact us directly: **780-848-8474**, publicconsultation@capitalpower.com.

Correction

In the March 2014 special edition of the Genesee Connection Newsletter (update on the Proposed Genesee Units 4 and 5 Project), there was an error on page two [2], "The service provider for natural gas pipelines in the area is Atco Gas who is responsible for the pipeline's regulatory process and installation."

Capital Power would like to correct the record. Buck Mountain Gas Co-op Ltd holds the Natural Gas Franchise Territory surrounding the plant site and the mine area. Although Atco Gas does have transmission lines located within the Buck Mountain territory as well as a service line to the Genesee plant site, it is not the service provider for natural gas pipelines in the area.

What Is Important to You?

Have an idea for the *Genesee Connection Newsletter*? Contact the Community Consultation Group, and help us continue to provide information that is of interest to you.

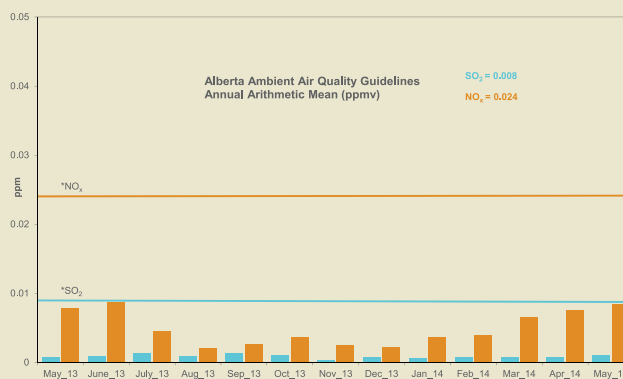
Genesee Station Environmental Performance

The following graphs show the most recent environmental performance results:

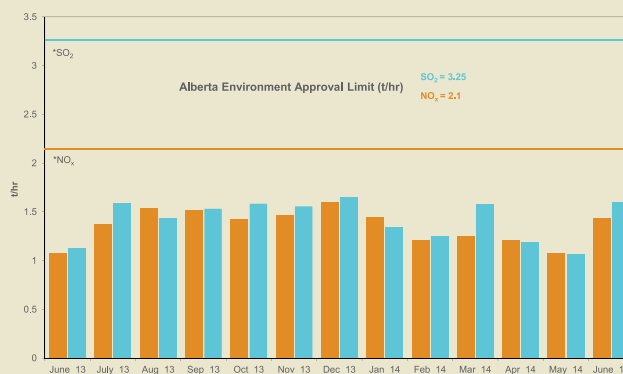
- Ambient air quality as measured by the Genesee ambient air monitoring trailer;
- Stack emissions for stack one (for generating units 1 and 2);
- Stack emissions for stack two (for generating unit 3).

Measurements are compared to guidelines and approval limits set by Alberta Environment. Genesee continues to operate below maximum levels set for ambient air quality and stack approval limits.

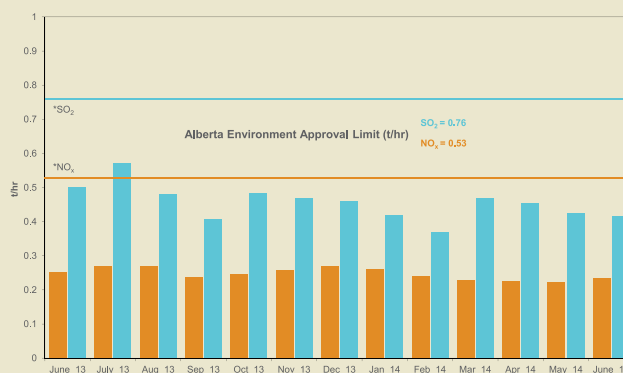
AMBIENT EMISSION LEVELS



G1/2 EMISSION LEVELS



G3 EMISSION LEVELS



Sulphur Dioxide (SO₂): a strong smelling, colourless gas that is formed by the combustion of fossil fuels. In high concentrations, SO₂ is known to be harmful to vegetation and human health. SO₂ is soluble in water and excessive levels can lead to sulfuric acid deposition or acid rain.

Nitrogen Oxides (NO_x): the term used to describe NO (nitrogen oxide), NO₂ (nitrogen dioxide) and other nitrogen oxides. The major sources of man-made NO_x are high-temperature combustion processes, such as those occurring in automobiles and power plants. When concentration is high, NO_x is of concern because it contributes to ground-level ozone or smog. Genesee 3 approval limits are based on a 720 hour rolling average.

Note: All results are converted to reference standard conditions so as to be comparable to other coal fired plants in Alberta and elsewhere, and are dry concentrations corrected to 50% excess air; ppm: parts per million. An example of the quantity of Sulphur Dioxide and Nitrogen Oxides measured at ambient air sites in parts per million would be equal to approximately 1/100th of a grain of salt per breath of air. G3 has separate approval limits from G1 and G2 for its stack emissions. G3 approval limits are in terms of a mass emission rate (i.e. tonnes per hour). To be consistent for all units, we have shown G1 and G2 emissions and limits in tonnes /hour as well.

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GENESEEE CONTACT INFORMATION

If you have questions or comments about our operations, community engagement or our land management practices, please feel free to contact us.

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George Greenhough **780-969-8618**

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(24-hour Security)
780-969-8505

Capital Power Website
www.capitalpower.com



Careers

For more information on starting a career with Capital Power and to view current job opportunities, visit our website at **www.capitalpower.com/careers**.

Note: an electronic version of this newsletter is available. Please let us know if you prefer to receive your copy of the Genesee Connection by email instead of hard copy. OR if you no longer wish to receive this newsletter, please contact us at 'Community Consultation' (above) and we will remove you from our mailing list.

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