

What's Happening

DOYON UTILITIES' MONTHLY PROGRESS AT-A-GLANCE



Doyon Utilities Celebrates Earth Day

As part of the Army's ongoing environmental initiative, the Fort Wainwright Garrison celebrated Earth Day on April 22nd. The event had a host of participants from the garrison as well as the surrounding Fairbanks community with an emphasis on community outreach for environmental awareness and sustainability issues. Event activities included educational booths, an exhibition of art created from recyclable material, recycling demonstrations, recycling opportunities, a scavenger hunt and a cake cutting ceremony.

Doyon Utilities was given the opportunity to participate along with the USAG Environmental Office, North Haven Communities, Arctic Health Link, the FNSB Transportation Office, ASYMCA, MAC Federal Credit Union, K&K Recycling, Interior Alaska Green Star, ACS and SOS, VPSI, and the Fairbanks Rescue Mission. Jason Walker spearheaded the efforts for Doyon Utilities and based upon the number of visitors to the displays the program was an overwhelming success.

Doyon Utilities provided a booth dedicated to promoting energy and water conservation and overall environmental sustainability. The DU booth consisted of display boards showing how we produce energy and water for the post, handouts with conservation tips, an explanation of our osprey nesting project, a video of the Story of Bottled Water, a coal lighting display and a terrarium building station for kids of all ages.

The big attention grabber for the display part of the booth was the coal lighting demonstration. Doyon Utilities' Ft. Wainwright CHPP Electrical employees created a display that compared how much coal was needed to power both an incandescent bulb and a compact fluorescent bulb. The compact fluorescent uses about a quarter of the power that



Jason Walker with coal lighting demo.

the incandescent does and the two jars of coal showing how much would be burned to power those bulbs for 24 hours really drove the point home.

The attraction for the kids at the DU booth was the terrariums. Children (and some adults) were given the opportunity to make terrariums from used plastic water bottles. DU provided sunflower seeds and potting soil and kids were able to plant a seed and go home with a gift that they could watch grow. At the end of the growing season, participants were invited to send pictures of their sunflowers to DU for inclusion in a company newsletter in the fall.

Tied into the terrarium station was a video called The Story of Bottled Water. This video provided detail on how the bottled water industry works and how reducing consumption of bottled water coupled with responsible recycling can reduce the waste issues associated with the leftover bottles.

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DU also provided a representative in a cake cutting ceremony where garrison and local community leaders were given the opportunity to articulate their support and commitment to environmental sustainability. Community leaders were given the opportunity to speak briefly and then cut a cake in a show of solidarity and community outreach. The overwhelming message throughout the event was one of responsible stewardship of our environment of which DU is a vital participant.

This event was by all accounts a tremendous success and a great opportunity for DU to participate in environmental sustainability and community outreach. Special thanks to DU team members Roxanne Fontana and Trisha Madros for creating the great display boards, Diane Wallis for initiating the handouts and providing the Story of Bottled Water, as well as Rufus Bunch and the CHPP electrical crew for providing the coal lighting display. While these are the primary employees involved in the Earth Day activities, thanks also needs to be extended to all those behind the scenes folks who organized the event and volunteered to look after the booth during the event. Without these people's help, DU's portion of the event would not have been as stellar a success as it turned out to be. 

Fort Wainwright CHPP

FWA CHPP Boiler Stack Safety Platforms

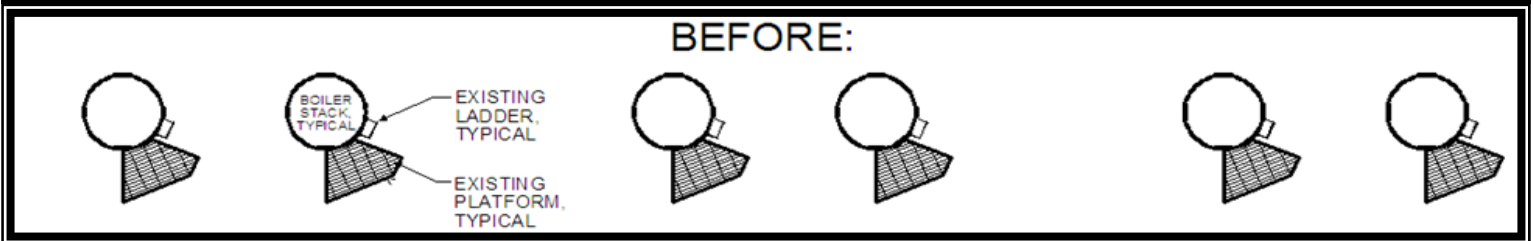
By: George Ferree, Project Manager

The Fort Wainwright Central Heat and Power Plant (FWA CHPP) contains 6 coal-fired boilers, each with its own exhaust stack. Each exhaust stack has a motor-operated "stack cover" that is open when there is a fire in the boiler and closed when the boiler is not in use. The stack covers require periodic maintenance, so a small working platform

was constructed near the top of each stack. The existing platforms proved to be too small to perform all the necessary maintenance activities in a safe manner. In addition, each stack had a "standalone" platform, so when maintenance was being performed on multiple stacks, time, energy and safety was sacrificed climbing up and down

ladders. The Boiler Stacks Safety Platforms Project solved these problems by constructing a large, inter-connected platform that allows maintenance personnel to work safely and access all 6 stacks without having to climb up and down multiple ladders. The accompanying diagram and photos depict the "before" and "after" conditions. 

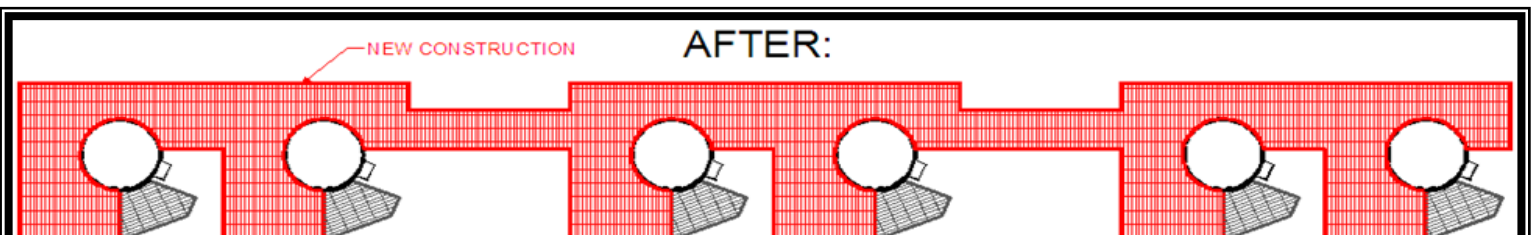
Old design of Boiler Stacks at FWA CHPP.



BEFORE: Old Boiler Stack Photo



AFTER: New Boiler Stack Photo



New design of Boiler Stacks at FWA CHPP

Fort Wainwright

FWA Electric Meter Deployment Success

By: Brandi McCullough, IT Systems Administrator

Doyon Utilities completed a large-scale electric meter installation at Fort Wainwright and we are happy to report that the work at Denali Village Phase I and Taku is a complete success! Much of this success is directly attributable to the investment made by the Army for the Advanced Metering Infrastructure (AMI) smart grid and DU has refined its meter installation process.

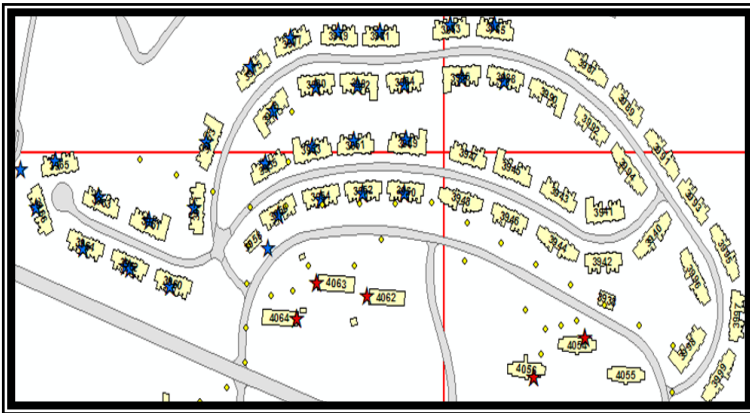
FWA employees installed approximately 315 meters over a 10-day period at Denali Village Phase I and Taku. The fully deployed meters are communicating with the Customer Information System (CIS), have been Quality Controlled (QC'd), and entered into the Geographic Information System (GIS). To ensure a smooth installation, DU implemented a process to deploy electric meters that guarantees

that the meters are properly recording usage, communicating with the CIS, and are accurately located on GIS maps. This methodology will be used for the installation of all meters regardless as to the number of meters installed.

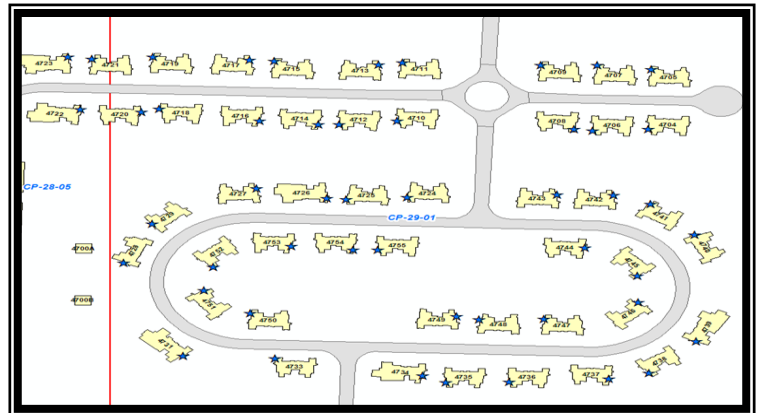
Part of this process required Nicole Davidge, DU's Meter Data Management Technician, to strategically identify locations where the collectors, known as Shark Fins, needed to be installed within the deployment areas. Bill Sparks and Mike Foster, FWA electricians, then installed the Shark Fins and began deploying electric meters while collecting the required location information. All data is collected electronically and processed. DU utilizes a laptop to collect meter data and to properly identify GIS building

locations. At the end of each shift, the electrical crew docks the laptop. Dejuan Tanner, DU's GIS technician, then pulls the collected data that is, in turn, verified for accuracy. After the data is validated, the data is checked into GIS and the crews continue their work the following day.

Below, are the maps for the electric meter deployment at Denali Village Phase I and Taku. Blue stars indicate the electric meter has been QC'd, and verified for accurate data and location information. The red stars indicate meters that will be QC'd during the next effort, showing outside of the Denali Village deployment. Once red meters are QC'd, they will be turned blue, indicating that they have been verified as accurate. 



Denali Village Phase I – 29 buildings were installed with 5 electric meters per building, totaling 147 meters, including 2 additional meters for 2 lighting areas. Time to install all meters was 6 days.



Taku – 56 buildings were installed with 3 electric meters per building, totaling 168 meters. Time to install all meters was 4 days,



DU, CEI, and NLC are meeting onsite to discuss the project scope and plan design.

Fort Wainwright

FWA Actus Project Update

By: Norman Sather, Project Manager

Doyon Utilities, LLC (DU) has awarded contracts to Central Environmental, Inc. (CEI) and Nenana Lumber Company to construct the district heat, water and wastewater utilities to provide service to the Bassett Infill, Bassett Activity Center and Bear Paw Phase II. Construction on these projects is scheduled to begin June 6 and continue throughout

the summer construction season. Contractors are currently mobilizing equipment and materials at the respective job sites as well as establishing temporary office facilities. DU, CEI and Nenana Lumber have had multiple coordination meetings and jobsite visits to plan work tasks and schedule the various utility installation. 

Fort Greely

2011 FGA Summer Projects

By: Mark Rockwell, Project Manager

Doyon Utilities received approvals to advance the design and construction of several new projects at Fort Greely. These projects have been in the planning stage for over 1 year and are now moving forward into the design phase. We have already developed budgets and schedules and have begun meeting with contractors who have successfully completed projects at Fort Greely for Doyon Utilities in recent years. The completion dates on these projects vary from November 2011 to November 2012.

- AAUF Utilidors
- Building 130 Lift Station
- Refurbish Generators 4 & 5
- Refurbish Well 8
- Replace Boiler Controls Building 101
- Sewage Treatment Plant Upgrades
- Sludge Drying Bed Upgrades
- Upgrade Heat Distribution Piping from Manhole 8 to MH 12

These projects were identified in the utility capital plan and were prioritized based upon health, safety, and reliability. The Fort Greely DPW and the Utilities Privatization Team worked together with Doyon Utilities to develop the scope and budgets for each of these projects. The projects were then reviewed through the Defense Logistics Agency – Energy for final verification and notice-to-proceed was provided to Doyon Utilities.

Rest assured, we will continue coordinating these projects with Fort Greely DPW as they progress. If you have questions or concerns about these projects, contact Mark Rockwell, P.E. Doyon Utilities Lead Project Manager at (907) 455-1561. 



As part of each project, Doyon Utilities assesses the impact to local surface features, such as sidewalks, trees, landscaping, and signage.



In this photo, decay in a recently replaced wastewater pipe is shown.

JBER

JBER - Camp Carroll Gas Line Replacement

By: Mack Miessner, Project Manager

During the gas meter installation work in 2009, Doyon Utilities (DU) identified additional steel mains in the Camp Carroll area. These gas mains were incorrectly identified on maps as being high-density polyethylene (HDPE) or plastic gas mains and service lines. Upon investigation, they were found to be steel lines that have been without cathodic protection since they were installed in the early 1970s.

All steel gas mains and service lines are required to be cathodically protected under 49 CFR, part 192. Non-cathodically protected steel mains and service lines pose a threat that could result in corrosion leaks. This project will replace all of the remaining unprotected

steel mains and service lines in the Doyon Utilities gas system.

The construction start date begins June 27, 2011, ending on July 30, 2011. During the construction period, there will be temporary, scheduled, natural gas outages, restricted to individual buildings one at a time. The building users will be notified of schedule outages in advance and DU will make every effort to minimize the impact to road traffic. 



JBER –Camp Carroll Gas Line Replacement Plan

Safety Matters

Doyon Utilities Cell Phone Policy

By: Jeremy Phillips, Safety Coordinator



Doyon Utilities Safety Coordinator would like to remind you about our cell phone policy when driving a company or privately owned vehicle. The purpose of this policy is to ensure the safety

of DU employees, and to comply with applicable laws of the State of Alaska.

Current Alaska State Law prohibits "texting" while driving a motor vehicle and military regulation prohibits both texting and use of hand held electronic devices while driving.

DU employees, contractors/subcontractors and others operating company vehicles or employees operating privately owned vehicles on company business are prohibited from text messaging, e-mail or similar forms of electronic communication while operating a motor vehicle unless using a hands free device that does not require the driver to dial a number while operating the vehicle.

In the event of an emergency where urgent communication is required, safely move the vehicle to the right shoulder of the roadway or to a designated pull off, bring vehicle to a complete stop, and place vehicle in park before

activating one of the devices mentioned above.

DU employees are required to adhere to the policy concerning use of cell phones and similar devices while conducting company business. Please attempt to make calls or other communication before departing on a trip or after arriving at your destination. 

Employee Certifications

Harry Weaver



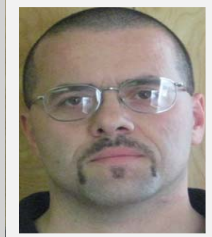
FGA CHPP, Shift Engineer
- Class II Boiler License

Michael Dugger



FGA Shift Engineer/Boiler
Operator – Boiler License
Class III

Scott Wharton



FWA CHPP Coal Handler -
Class II Boiler License

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