



What's Happening

DOYON UTILITIES' MONTHLY PROGRESS AT-A-GLANCE



Message from the President

Doing Our Part

There is an old adage that when opportunity knocks don't be afraid to open the door. Recently, the federal government's Office of the Secretary of Defense issued a memorandum focused on obtaining Greater Efficiency and Productivity in Defense Spending. A specific challenge was to work at "eliminating unnecessary contract requirements and working to negotiate reduced prices" on government contracts.



Dan Gavora
President/CEO


These goals are consistent with Doyon Utilities' efforts to improve efficiency, look at cost saving measures and ultimately demonstrate our professional competence as a Utility Privatization contractor for the federal government. As our partners and employees already know, any efficiencies we generate allow us to be more productive and take on more responsibilities without an overall increase in operating costs. Our successes result in cost containment rather than adding to it; where we can do more without increasing operating costs the government receives a direct benefit. This concept is well documented in the Regulated Utility Model that serves as our operating mantra. Stated otherwise, due to the regulated model DU operates under, we have considerable incentive to become as efficient as possible because all of Doyon Utilities' operations are truly transparent. Our responsibility, and one I take very seriously, is to ensure our utility operations are prudent, necessary and based upon sound utility practices. All of our em-

ployees are accountable for monitoring these areas while maintaining vigilance over our daily operations.

Another area where we can support the efforts of the Department of Defense and our Contracting Office is to review our privatization contract provisions with an eye to identifying requirements that do not provide value to either the government or the utility. A comprehensive listing of these provisions is outlined in our Contract Document Requirements List (CDRL). From the beginning of our utility ownership in 2008 there has been universal agreement that some of the provisions are outdated and are imposed without providing a direct benefit to the government. Many of these requirements may have been necessary during the operational transition period but now that we are fully operational the same requirement may not provide a benefit. It is neither Doyon Utilities' intent nor desire to remove reporting requirements or contract deliverables that provide a benefit; but rather to identify those items that con-

sume resources without improving efficiency or allowing the government to perform their due diligence of our operations. This effort must be a joint effort with our military partners to ensure we are fulfilling our responsibilities while supporting the federal government goal of improving efficiency and removing unnecessary requirements.

Based upon the Office of the Secretary of Defense initiative, we have a real opportunity to effect change. In the near future, in coordination with our partners at each DU site, we will document items that seem to fit the goal of reducing unnecessary contract provisions. Once we have completed a contract "scrub" we will be in a position to request consideration of the measures by the Contracting Officer.

We serve the finest and most professional military in the world—we can do our part by addressing this initiative and offering a high level of service to our most deserving customers. Rest assured, Doyon Utilities will do our part. 

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Fort Wainwright CHPP

Fort Wainwright CHPP Deaerator Tanks Replacement

By George Ferree, Project Manager

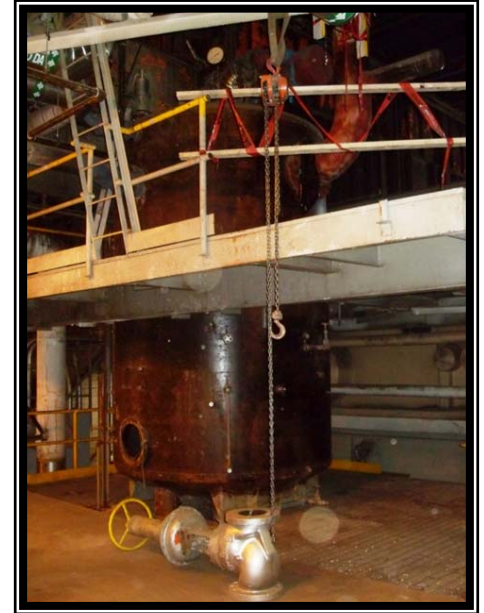
The Fort Wainwright Central Heat & Power (FWA CHPP) Deaerator Tanks Replacement effort is one portion of the multipurpose FWA CHPP Process Water Treatment Systems Upgrade Project (DU Job No. J101344.

The removal of non-condensable dissolved gases, such as oxygen and carbon dioxide, from boiler feedwater is an essential process in a steam system. Dissolved oxygen causes rapid localized corrosion in boiler tubes. Dissolved carbon dioxide produces corrosive carbonic acid, which lowers the feedwater pH level and causes severe acid attack throughout the boiler system. Adding chemicals to the boiler feedwater can remove dissolved gases and control the pH level; however, it is more economical and thermally efficient to do this mechanically via the process known as deaeration. Proper deaeration will dramatically increase the life of steam system components.

The deaeration process occurs inside a closed pressure vessel (DA Tank) by taking advantage of the following gas-liquid relationships: (1) gas solubility in a solution decreases as the gas particle


pressure above the solution decreases; (2) gas solubility in a solution decreases as the temperature of the solution increases. Boiler feedwater is circulated into the DA Tank and sprayed in thin films into a steam atmosphere. Spraying feedwater in this film increases the surface area of liquid in contact with the steam, which increases the rate of heat transfer and, in turn, the rate of removal of dissolved gases not liberated by the initial heating process. The liberated gases are vented from the DA Tank and the feedwater is circulated out to the boilers.

The FWA CHPP has two (2) existing DA Tanks that have been in service since the plant was originally constructed in the 1950's. Both tanks have reached the end of their useful life and are due for replacement. This project will remove and replace both existing tanks, but will do so in a staged manner so that the plant will have one operational DA Tank at all times. As evidenced by the photo accompanying this article, which was taken on March 16, 2011, demolition of the North DA Tank is currently underway. The insulation has been removed and most of the piping has been disconnected and removed. The new, replacement North



Demolition of the North DA Tank at FWA CHPP.

DA Tank is already on site at the CHPP.


The work is being performed under a design build contract by Jaffa Construction, Inc.— an Alaska-based contractor with a long history of successful industrial boiler construction, repair and maintenance work. The project is expected to be complete by July 2011. 

Fort Wainwright

FWA Bear Paw Phase 2 Update

By Norman Sather, Project Manager

Doyon Utilities Fort Wainwright Bear Paw Phase 2 project is in the final design stage. The final drawing package is due on April 8, 2011. The drawing package will be for the installation of water, wastewater, steam and condensate utilities for the construction of buildings 13-25. Once the final drawings are reviewed, the bid packages will be sent out on April 11, 2011 to contractors.

Currently, Doyon Utilities is working with Actus Lend Lease and their subcontractor Nenana Lumber for the early installation of building service laterals, to help facilitate construction of the buildings and allow an early install of building utilities. Nenana Lumber is preparing a proposal to do this work and will be submitting it by April 1, 2011. 




Alaska Groundworks installing sheet piling at Bear Paw Phase 1 at FWA.

Fort Greely

FGA New Electrical Power Lines

By: Mike Lanegan, Project Manager

DU is currently building the new Electrical power lines from the substation that was constructed in 2009. Three of the six new feeders are currently completed and in service and the remaining three are being constructed on new rights of way cleared last fall in preparation for this winters work. In addition to the ongoing EDS projects DU personnel are actively engaged in several smaller in-house project such a blower silencers for the aeration lagoon and conducting general preventative maintenance activities. DU staff are also working with our Army counterparts to ensure that efforts are directed toward executing the 2011 planned capital improvements. 



Construction of new electrical power lines at Fort Greely.


Joint Base Elmendorf Richardson

JBER- FTR Housing Privatization

By Mack Miessner, Project Manager



Example of future planned community housing on JBER.

Davis Constructors & Engineers, Inc., Osborne Construction Company, Kumin Associates, Inc., and RIM Architects, LLC have combined in a design-build relationship with Aurora Military Housing III, LLC to demolish and construct new housing units and remodel existing units at Joint Base Elmendorf-Richardson. Davis and Osborne will be forming a limited joint venture; each contractor is performing their portion of the project on separate sites. Doyon Utilities (DU) is currently overseeing the design of the utilities on JBER – Richardson. DU will be working closely with Davis and Osborne during the full course of construction, which is expected to last from April 2011 until February 2014. 

DU Employee Certification

Congratulations to Larry Hopkins, Lead Mechanic at Fort Wainwright CHPP for furthering his education and receiving his Class 1 Boiler License in March.



Larry Hopkins

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Safety Matters

Spring Season Safety

By: *Jeremy Phillips,*
Safety Coordinator

When cold weather begins to warm, motorists may think their driving cares have melted away with the winter ice and snow. Not so, especially this year in Alaska. Due to the unusually warm weather and rain in November many of the roads are still covered in ice and have been slowly melting due to warmer weather. This combination is creating smooth sheets of ice that even the best traction tires have a hard time gripping. Here are a few spring suggestions to help you get to your destinations safely.

* Rain is a common spring driving hazard. While most people think of ice or snow when cautioned about slippery roads, the truth is wet roads can be just as slick. Tires can hydroplane on a layer of water, losing contact with the road and causing the vehicle to skid. Rain lifts oil and other slippery fluids dripped by passing autos, creating a slick layer on the blacktop. Slow down on wet roads and drive especially cautious until the ice has cleared from the roadways.

* Start out with a safe car, if you are in the market for a new vehicle keep this in mind. Studies show that all wheel drive and electronic stability control significantly reduce the risk of being

involved in a crash.

* Replace worn tires. Your tires are what keep the car on the road. Worn out treads provide less traction and greater chance to slide. Likewise, make sure tires are inflated properly according to your vehicle's owner's manual.


* Spring showers bring May flowers, but let this be a reminder to also check and replace worn wiper blades. Poorly maintained windshield wipers can hamper visibility in poor weather. After a long winter of salt and other road residue on the windows, wiper effectiveness is greatly enhanced by cleaning the glass with a strong glass cleaner that can remove the oily film. And don't forget the inside of the glass. Removing the film on the inside can help the defroster clear faster and reduce moisture build-up.

As part of its National Car Care month in April, the Car Care Council recommends checking tire treads and windshield wiper quality in preparation for spring driving conditions.

"In our research of vehicles brought in for their April check-up, close to one-fifth of vehicles (17 percent) had front windshield wiper failures and 12 percent



of vehicles needed service on their rear wipers and/or washers," says Rich White, executive director of the Car Care Council.

* Spring rain can also dampen visibility so it is important to check all vehicle lighting including headlights, taillights, back-up lights, turn signals, parking lights and brake lights. These lights are important not only because they help you to see, but also serve as a way to help you communicate clearly with other motorists. During breakup lots of materials accumulate on vehicles and is most notable on the headlights. Please be sure to clean them off periodically, the difference will surprise you. 

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