



What's happening

| o March 2010 o |



DOYON UTILITIES' MONTHLY PROGRESS AT-A-GLANCE

Fort Wainwright CHPP Operations - Outside Perspectives

The following article was written by Courtney Roberts, Nalco Company District Representative. In early March, Randy Sulte, District Manager, and Dana Novak, Senior Account Manager, both from Nalco Company, joined Ms. Roberts in presenting a bi-annual business review of the boiler feed water treatment operations at the Fort Wainwright Central Heat and Power Plant. Nalco Company is Doyon Utilities' chemical supply vendor. As mentioned below, Nalco Company began providing services to Doyon Utilities in February 2008.

Doyon Utilities has been making huge strides in optimizing the boiler feedwater program at Ft. Wainwright. Doyon Utilities took over the CHPP in August of 2008. Changes in the boiler feed water treatment system were initiated within a short time. In July 2009 a business review was conducted by Nalco Company, the first since being awarded the chemical supply contract in February. The purpose of these bi-annual business reviews is to ensure that Nalco is properly identifying and meeting Doyon

Utilities' goals for the plant. The prognosis at that time was far from ideal. Several recommendations were made to drive the clean-up process and improve upon the existing water treatment program. The "to do" list was extensive. Nalco recently conducted a second business review and the data told an entirely different story about current operations at the plant. Doyon Utilities exceeded all expectations in an incredibly short period of time!!!

A summary of changes at the plant since the first review are as follows:

- Feedwater hardness, silica, and iron are virtually zero and have consistently remained in target since January 2010 leading to greatly reduced cost.
- Condensate conductivity has dropped from 1500 umhos to less than 10, also since January. This is an indication that the contamination in the field has ceased and the water returning to the plant is pure and usable by the boilers allowing a more efficient operation.
- Carbon filters have been installed to remove the chlorine coming in from the water plant reducing chemical costs while protecting a sensitive Reverse Osmosis unit.

(continued on page 2)

In This Issue

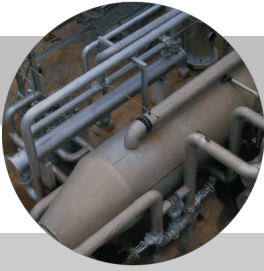
FWA CHPP Operations	Page 1
Site Specific Happenings	Page 2
Site Specific Happenings	Page 3
Site Specific Happenings	Page 4
Site Specific Happenings	Page 5
Site Specific Happenings	Page 6
Safety Matters	Page 7
Five Year Capital Plan	Page 8

Contact Us

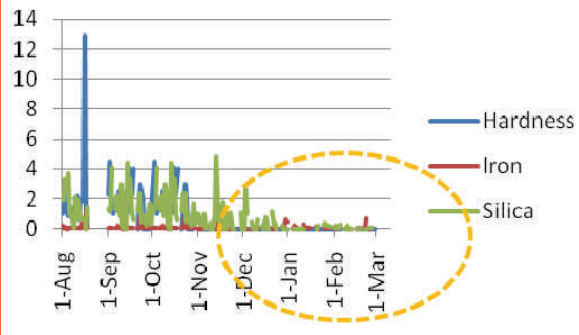
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Site Specific Happenings



As you can see from the chart above, the feedwater at the plant has improved substantially in a very short time. Continued education and teamwork is a blueprint for success.

(continued from page 1)

- New softeners have been installed to remove incoming hardness further improving efficiency and water quality to reduce cost.
- New reverse osmosis membranes have been installed to remove incoming silica with a life expectancy of nearly five times that of previous years.
- One of the significant changes that has greatly helped in improving the boiler water quality was the assignment of Sam Fitzpatrick to the position of CHPP Boiler Feedwater Technician in October of 2009. The promotion of Sam to this position is one of many steps in a strategy DU is following to bring the boiler water quality to a level desired to properly maintain the boiler tubes.

Fort Wainwright

- Doyon Utilities received the Notice to Proceed for the electrical distribution upgrade for the Bear Paw Phase I housing area. The Post housing contractor will begin building six new 4-plexes. The project includes new overhead powerlines and transformers with underground secondary services to the 4-plexes. Contract award and construction begins in May.
- Material has been received for a transformer upgrade and new service at the Birch Hill Transmitter Site. The work is expected to be completed by the end of April.
- Various employees received respirator fit tests/training, trenching/excavation, and emergency response and evacuation training. Several Utility Fitters received steam metering training provided by Corix and their meter vendor. The Lineman Foreman attended a 16 hour ARC Flash Training Course.
- During the first quarter, maintenance was performed on Boiler #4. It was cleaned, inspected, and blisters on the back wall tubes were repaired. Boiler #5 also had its back wall tubes cleaned. The work on this project is now complete. All six boilers have had the side wall and back wall tubes mechanically cleaned and any discovered tube blistering has been repaired.

- New Turbine Governors Project: The pre-construction meeting has been held with the contractor. Work has begun on pre-shutdown tasks. Nearly all of the equipment associated with this project has been received and is located at the CHPP.
- New Automatic Voltage Regulators Project: The design work has been completed and the associated equipment has been delivered to the CHPP.



FWA demo utilities at building 4223 has a scheduled completion date of May 31.

Site Specific Happenings

Fort Wainwright (continued)

- A second water softener for the boiler feed water treatment system was ordered, received and installed.
- Activated Carbon Filter: One of the existing multi-media filters was converted to an activated carbon filter for chlorine removal from the boiler feed water. This unit will greatly reduce the amount of chemical used to remove chlorine.
- FWA Airfield Lighting: The project is in Phase II. This includes new Switchgear type regulators and new West Approach Lights. The engineering has been ongoing throughout the winter. The regulators have been specified and ordered with delivery set for the middle of July. The project drawings and specifications are currently in the final review and the rest of the materials will be ordered soon.
- FWA Feeder 23: Norcon has continued work on this project in the areas north of the Chena River. They rebuilt the line along River Road and are working up Canol Road towards the tank farm. Once the ground thaws, the duct bank portion along the west end of the airfield will start. The project should be complete by the middle of the summer.
- Feeder 24 has been rebuilt on the north side of the Chena from the top of the ski hill to the river crossing. The river crossing will be completed by the first of April. The work will continue on the south side of the river. The portion of the feeder that serves the housing areas will be completed in the spring.
- FWA Power Plant Governors: The new HPU units and Woodward governors have been received. This project will be completed in 2010.
- AVR & Spare Cubicle: This project Statement of Work (SOW) has been developed and equipment specified and ordered. The AVR and Governor upgrades will be accomplished in coordination with the switchgear upgrade in 2010.
- Feeders 12/13, 14 & 15: Preparation for 2010 construction on the upgrade of the remaining feeders, including field survey of existing facilities, is un-



The FWA controls upgrade project is underway. We are going to be working in tandem with the new switchgear upgrade and taking advantage of downed equipment to reduce service interruption.

- derway. Material is being received and poles were delivered the last week of March.
- Utility Service for Aircraft Storage: Final review drawings have been printed and distributed for review. Next step is to order materials, finalize drawings and put the project out for bid. Completion date is scheduled for August 31, 2010.
- DU will proceed with ordering materials for the FWA Bear Paw and Gertsch Heights project. Bid packages are being prepared for distribution to contractors.
- As a result of Flint Hills finding sulfolane in the groundwater related to gasoline spills, ADEC is requesting all drinking water utilities in the Fairbanks vicinity test their source water for sulfolane. Samples from the 4 wells at Fort Wainwright were obtained during January, all samples were non-detect for sulfolane.
- Single phase electrical service was installed to the HBO's at Buildings 3446 & 3448.
- New electrical service for HBO's at Building 3011 was installed.



Site Specific Happenings

Fort Wainwright (continued)

- The circulation pump at Manhole G7-7-2 was replaced. The pump circulates water through a 10” line to the Ammo Supply area and ties back into the new water line that was installed last fall for the Stryker Wash Facility.
- A new electrical service drop was installed to a new building at the FWA Range.
- The replacement of the #4 Service Pump at the FWA Water Plant is now completed. The #4 pump is one of the largest at the Plant. It can deliver 1950 GPM from the clearwell.



Fort Wainwright has a new sign on Neely Road identifying its depot.

Fort Greely

The FGA Boiler controls upgrades are underway. Contractors have started placing the new instrumentation and running conduit necessary for the new wires. They have started pulling network cabling as well. The new boiler control cabinets are on site and awaiting installation. Servers and operator workstations are on site as well. The balance of plant panel is in place, programmed, and in full operation giving the operators pertinent information about the fuel system associated with the generators and boilers. The base graphical interface is complete and the operators have been able to see what their new system will look like graphically.



- Renovations to the CHPP boiler lab were completed along with minor improvements at Building 639 at the aeration lagoons.
- Emergency evacuation and trenching training were conducted on March 18.
- Upgrade of the Plant Fuel System is complete.
- Materials for the steam/water main upgrades at the RCI Housing have been ordered.
- The initial site visit to replace the Black Rapids Wastewater Treatment Plant has been done. The next step is to develop a scope of work for a contractor to design and install a new wastewater tank.
- Design is in progress and material has been ordered and has started to arrive for feeders 1-4 and 6-8. Feeder 8 has been awarded to Norcon.
- The Potable Water System at AAAF is complete.

Site Specific Happenings

Fort Greely (continued)

- The Fort Greely 138 Kv drawings have been approved for installation of the station service voltage transformer for station service. Additional materials were ordered and we expect this project to be completed by May 1st.
- An ADEC air compliance program representative conducted a site visit of the Fort Greely Power Plant. The inspectors interviewed operators, verified the boilers and generators matched the permit, and reviewed onsite records. No issues were raised during the inspection.
- Feeder 5 Phase 2: Four poles remain to be set once the ground thaws. This will complete the project. Crews are retiring old facilities. We expect to complete this project by June 1st.

The competition continues at Fort Greely! The Biggest Loser contest is entering week 17 out of a total of 23 weeks. Collectively, the 12 participants have lost a total of 298 pounds. The participants continue to have fun with the contest as they share eating and exercise tips and inspire spouses and other employees throughout DU to join the program. Congratulations to all of you in the competition on your success! We are looking forward to week 23!



The Ft. Greely 3rd Street upgrade is underway. A control panel that fits in the utilidor and monitors all of the flow rates, conductivity analyzers, temperature and pressures is in the new system. We were also tasked with panel design for the new pump skid. This panel would control these new pumps and monitor critical information about them. Panel design on both panels is complete. Panels are under construction and all of the hardware for said panels is ordered and on its way to the panel shop. Once these panels are installed we will tie them into the control system at Ft. Greely and build new graphical screens for the operators to be able to monitor and control these new pumps and all of the information from the 3rd Street utilidor. They will be able to receive alarms from the system which will in turn provide the Army with better response time to problems and allow the operators to better pinpoint the area where the problem exists.



Fort Richardson

- The Master Valve Replacement project at the WTP is complete.
- FRA Kodiak Underground: This job is a continuation of Feeders 3 & 6 for the underground portion of Kodiak subdivision. Work continued uninterrupted and completion is expected in June.
- The engineering is in progress for the 'D' St Substation project. The switchgear was ordered with delivery expected mid-July. The drawings for the project have reached the 90% complete stage. This substation will be built this summer. The land clearing will start in early April. The standby generators will be located next to the new substation.



Site Specific Happenings

Fort Richardson (continued)

- The engineering is complete for the Vista Switch and it is scheduled to be installed in 2010.
- FRA Backup Generation: The proposed air permit for the 3 - 3.0 MW Caterpillar C175-16 standby generators was published on January 28, 2010. DU provided comment on the permit on February 26. DU is waiting for the final permit to be complete. As of April 1, 6 months has elapsed to process this permit.
- FRA Back Up Generator 772 Demo: Doyon met with FRA DPW Compliance concerning the upcoming back up generator building 772 demo and the need for coordination concerning the contaminated site. Because of concerns surrounding the material that was placed into the 772 drain system, DPW is taking a proactive effort to investigate and remove the associated drainage area that received these materials. This work is scheduled for mid-late April. Results from the investigation are expected within 60 days of the action. At that time, DPW Compliance will share these results with Doyon to assist them with their plans for building demo and UST closure.
- Ft. Richardson Water Treatment Facility Control Systems Upgrade: The upgrade of the water treatment facility continues. The project is out to bid with a proposal deadline of April 15. Network design for the Water Treatment Facility is complete and implemented.
- Ft. Richardson D Street Substation: This project will allow for the remote control and monitoring of the new substation. This will allow DU personnel to remotely open and close breakers, monitor the flow of electricity and do necessary switching from an operator workstation. This project is still in design phases and we are putting together base graphics, base logic and designing network infrastructure to make sure that this new substation will be able to communicate with everything else on site.



Pictured above is Building 772 scheduled for demolition.

Certifications

We are pleased to announce that the employees listed below have recently obtained new certifications. Doyon Utilities fully supports its employees in their efforts to obtain certifications in their respective fields and congratulates these employees. Good work!

- Terry Bowers - FWA/CHPP Shift Engineer Class I Boiler License
- Erik Berrie - Utility Operator Class II Boiler License
- Daniel Sampe - FWA/CHPP Utility Operator Class III Boiler license
- Sam Fitzpatrick—FWA/CHPP Utility Operator/Water Treatment Tech Class II Boiler license
- Melvin Nevils - FWA/CHPP Plant Operator Class II Boiler license
- Jonathan Crosby - Electrician/Instrument Tech Class III Boiler License
- Michael Powers - FGA/Utility Fitter WWC level I

Safety Matters

Back Safety

Eight out of every ten people will suffer from back pain at some time in their lives. According to the Bureau of Labor Statistics, there were 222,290 work-related back injuries in 2008. Follow these tips below to protect your back.

How to Keep Your Back Strong

Even proper lifting can cause back pain or injury if your back isn't strong and healthy. Some tips to keep your back in shape include:

1. If your job requires you to stand for long periods, elevate one foot and alternate legs regularly. Also, stand straight, but keep your knees bent slightly.
2. Avoid high heels.
3. Avoid sitting for extended periods. If you must, be sure to sit up straight and in a firm chair. Keep both feet on the floor and don't cross your legs. Also be sure to get up and stretch regularly, but never arch your back.
4. Sleep on a firm mattress. Placing a sheet of plywood under the mattress can help.
5. Sleep on your side with your knees bent and separated by a pillow, or on your back with pillows under your knees and a pillow supporting your neck.

Safe Lifting Procedures

Following safe lifting procedures can prevent the majority of back injuries, so let's review them.

1. Facing the load, position your feet about shoulder width apart with one foot slightly ahead of the other.
2. Bend your knees and squat, keeping your back straight.
3. Get a firm grip on the load, using your hands - not just your fingertips.
4. Lift steadily with your legs.
5. Keep the load close to your body.
6. Keep your back straight while carrying the load.
7. Remember to follow the same procedures in reverse when putting down the load.
8. Whenever possible, use mechanical help, such as carts, hand trucks or forklifts.

Take Care of Your Back

Your general physical condition can have a lot to do with the health of your back. For example, your back is supported by muscles in your stomach and in your back. If these muscles are weak, you run a greater risk of injury. Consider getting yourself involved in a regular exercise routine.

Exercise will also help you keep your weight in check. Carrying excess pounds causes constant strain on your back.

If you talk to people who exercise regularly, most of them will tell you it's a great way to reduce stress. Reducing stress is also a way to reduce back injuries. Stress causes muscles to tense - including your back muscles. And as some of you may already know, tense back muscles can mean back pain.

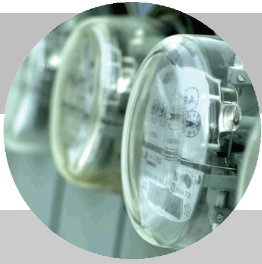
Finally, don't be a superman or a superwoman. If something is too heavy for you to handle, get help from a co-worker or use a mechanical aid.

Lift steadily with your legs.



Keep your back straight while carrying the load.

As mentioned, the single most common source of back injuries is improper lifting. Remember that each and every time you prepare to lift something. Back injuries can put you out of commission for a long time. Sometimes, they'll nag you forever. So please take care of your back.



Five-Year Capital Plan

Doyon Utilities' contract with the U.S. Army requires it to submit an Annual Capital Upgrades, Renewals and Replacements Plan (ACURRP) by March 15th of every year. Doyon Utilities' ACURRP, otherwise known as our 5-Year Plan, contains a 5-year forward look at the work we intend to do. Many factors are considered in identifying and scheduling renewals and replacements: the age of the existing facilities, design life of the equipment and cost of replacing the existing equipment in kind with a new version, are a few of the factors.

The projects slated to be underway in 2010 and 2011 included the following documents for each individual

project: Project Summary, Cost Estimate, Site Map and Design Sketch. The documents for projects in years 2012, 2013 and 2014 project documents include: Project Summary (including a basic cost estimate) and Site Map. In short, each project could potentially have anywhere from two to ten pages which makes for a very large master document. Following is a table listing the number of projects by post and year, that were included in this year's 5-year plan.

The complete 5-year plan is available in Doyon Utilities e-Room. Questions regarding the plan may be addressed to Sydney Morgan at: smorgan@doyonutilities.com

Location	Year 2010 Number of Projects	Year 2011 Number of Projects	Year 2012 Number of Projects	Year 2013 Number of Projects	Year 2014 Number of Projects	Totals
Fort Greely	15	8	7	4	6	40
Fort Richardson	17	10	19	8	0	54
Fort Wainwright	68	20	15	15	3	121

March Birthdays

Kenneth Brown
Shawn Truelove
Derrick Jackson
Kenneth Thomas
Tracy Noble
Joseph Atkins
Robert Maxfield
Chad Young
Dale Walker

April Birthdays

David Dean
Doug Bishop
Ronald Raverinni
Benno Cleveland
Terry Walters



NAOSH Week

May 2nd thru 8th

OSHA will hold a kickoff event on Monday, May 3, at the Frances Perkins Building in Washington, D.C., to mark the annual North American Occupational Safety and Health (NAOSH) Week. More than 5,000 people lost their lives from on-the-job injuries in 2008. Every year during the first full week of May, NAOSH participants raise public awareness about the importance of reducing the number of work-related deaths to zero. This year's focus is on the importance of creating and maintaining safe workplaces. May 5 is Occupational Safety & Health Professional day, so be sure to thank a Safety & Health Professional.