

Haberberger Successfully Replaces Four Storage Tanks at Elantas PDG



▲ Clay Buxton unloads one of the storage tanks at the Elantas, PDG site.

Haberberger recently completed its first project for St. Louis-based Elantas PDG, Inc. (formerly PD George), a premier global supplier of specialty polymers for applications in the electrical and electronic industries. General Contractor **ACME Construction** hired Haberberger to handle the project, which involved successfully removing and replacing two 3,000-gallon and two 6,500-gallon stainless steel storage tanks, and the related pumps, filters and stainless steel piping at Elantas PDG's ALTANA operations. By replacing the tanks, which are used for temporarily storing the material after it leaves the reactor and before it is loaded into the trucks, Elantas PDG hoped to automate the company's processes and increase production efficiency and capacity.

The construction was supervised by Superintendent **Clay Buxton** and Project Manager **Chris Jordan**. The project took place in stages to allow the department to remain in full operation during the demolition and construction process. Because of this challenge, adjustments to the construction operations were made on a daily basis to accommodate the department's production schedule. The first stage of the project involved removing the first tank, relocating a temporary second tank in its place and temporarily

re-piping the relocated tank. Two new tanks were then installed and piped. Once the first two new tanks were operational, the other two existing tanks were demolished, and the final two new tanks were installed and piped. Because of the space constraints within the building during construction, the tanks had to be moved into the building on their side and then stood up in position, a difficult maneuver that required the installation of a temporary lifting beam.

Buxton helped the owner of Elantas PDG visualize the project by creating hand-sketched diagrams, which were approved by the owner before fabrication. He also was responsible for improving the original construction schedule by two months in order to decrease the customer downtime. Shop foreman **Jerry Ditch** worked very closely with Buxton in order to maintain continuity between Haberberger's fabrication shop and the construction team to ensure the project stayed on task throughout the tight schedule. The project was completed over Summer 2007, and there were no recordable injuries during the construction process.

"The success of this project would not have been possible without the cooperation of Clay Buxton, Chris Jordan and everyone at Haberberger Mechanical who made this job a success," said **Ken Brooks**, project engineer with Elantas PDG. "This was a complex project requiring cooperation from Haberberger, employees of Elantas PDG and the understanding of our customers affected by the production delays."



◀ A final view of the storage tanks after installation.

HABERBERGER COMPLETES CHALLENGING RE-ROUTING PROJECT IN 30 HOURS

Alberici Constructors recently hired Haberberger to re-route an existing 24-inch diameter chilled water return line at the Daimler Chrysler South Assembly Plant in Fenton, Mo. The construction was done during the plant's recovery and transformation model changeover. Day Superintendent **Rick Princivalli**, night Superintendent **Tim Gallagher** and Project Manager **Chris Jordan** led and supervised the project.

Because there were no valves in the main chilled water lines, Haberberger decided to freeze the line in two places to avoid draining tens of thousands of gallons of water from the system. Maintaining lines in a frozen state is a very expensive process, so Haberberger committed to completing the installation and welding in one 24-hour, around-the-clock period. Since the lines would be re-routed approximately 30 feet in the air, boom lifts were required to complete all of the work.

Before beginning the freeze, Haberberger installed rigging as well as new piping and supports. Once the freezing process began, **Midwest Pipe Repair** spent ten hours freezing the line solid with over 3,000 gallons of liquid nitrogen. It took another 2,000 gallons to maintain the frozen plug of water for the installation period. Sensors that were attached to the pipe allowed a Midwest Pipe technician to monitor the freeze from a computer interface during the entire freeze and hold process, and adjustments were made to the flow of nitrogen as needed.

Once the freeze plug was verified, a controlled drain of the section between the freeze points was initiated, and the pipe was cut. The old section was taken out, and the new section was installed and tacked into place. Four welders then completed the welds needed to finish the project. Once the project was completed, the freezing shells were removed and the pipe was allowed to thaw. The new section of the pipe was filled with water to equalize the pressure during the thawing process, and insulation was applied to complete the installation.

Thanks to careful planning and a creative approach, the entire installation process ended up taking 20 hours, and another 10 hours was devoted to prep work.



◀ The 24-inch diameter chilled water line is pictured being frozen with liquid nitrogen. The tanker in the foreground contains liquid nitrogen, and the hoses connect the storage tank to the freezing clam shells.

WORK CONTINUES AT THE FEDERAL RESERVE BANK

Haberberger continues to work on two separate projects at the **Federal Reserve Bank of St. Louis**, and both are coming along smoothly. Haberberger was recruited by **McCarthy** for the projects underway as part of the bank's expansion and ongoing renovations.

Under the guidance of Superintendent **Tom Masterson** and Project Manager **Todd Kramer**, Haberberger is in charge of installing new HVAC piping in the new six-story bank tower. The bank's security system has made the piping installation a little more challenging because the Haberberger team is restricted to certain areas and has to be frequently checked by guards for security purposes. Haberberger also had to meet the challenge of installing the large custom air handling units, which were difficult to maneuver during construction due to their size.

The project, which got underway in March 2006, is expected to be completed by early spring of 2008. Mechanical equipment startup got underway in mid-October, and the final phase of completing the penthouse mechanical room is set to begin shortly.

Haberberger is also moving into the second phase of the 6th floor renovation at the **Federal Reserve Bank of St. Louis** under the supervision of **John Boyd** and **Kramer**. Haberberger was hired by **Volk Construction** to work on the project, which has been challenging due to the tight work areas currently occupied by bank employees. The task of renovating the floor has been divided into three phases. Phase I involved installing an HVAC system and kitchen equipment in the new kitchen and server area. Phases II and III will consist of gutting the existing space, constructing a private dining and conference area, and erecting a new auditorium and large conference room. Subcontractors of this project include **Duct Systems**, **Sidney Insulation** and **Honeywell Controls**. The completion date is set for late Winter 2008.

LEMAY WASTEWATER TREATMENT PLANT PREPARES FOR WET-WEATHER EXPANSION

Haberberger is set to embark on a wet-weather expansion project for **Lemay Wastewater Treatment Plant**. The project entails the construction of four primary clarifiers, a primary sludge pump station and a grit building. Haberberger will also upgrade the plant's HVAC system, replacing associated pipe valves and fittings. The major challenge on this project is the installation of 6,000 lineal feet of pre-stressed concrete cylinder pipe, some of which is 144 inches in diameter. Haberberger, which was hired by **Tarlton Corporation** for the mechanical construction work, has enlisted General Superintendent **Phil Jones** and Project Manager **Jeff Roberts** to lead the project. Construction is expected to be completed in December 2009.

TWO PROJECTS PLANNED FOR U.S. POST OFFICE

Starting early winter, Haberberger will be working on two separate projects for the main St. Louis branch of the **U.S. Post Office**. Superintendent **Ron Arbuthnot** and Project Manager **Mike Conway** will be heading up the Haberberger team for these projects.

The first project involves upgrading the air-conditioning in the emergency power storage area in the UPS IPSS room. During the second project, Haberberger will be in charge of replacing all of the heating and ventilation units in the Vehicle Maintenance Facility's maintenance garage. **J.E. Novack Construction Company** is serving as the general contractor for the UPS IPSS Room construction, and **Klinger Construction Company** will act as general contractor on the Vehicle Maintenance Facility project. **R.F. Meeh Company** has been hired for the sheet metal contracting work on both projects.

HABERBERGER TAPPED FOR TWO PROJECTS AT WASHINGTON UNIVERSITY

Haberberger was recently brought on board for two separate projects for long-time client Washington University. Superintendent **Tim Gallagher** and Project Manager **Joe Wilhelm** were in charge of managing the installation of two new boilers in Washington University's existing power plant at Euclid Ave. The project, which was completed in mid-November, involved replacing boilers 5 and 6 with boilers rated at 70,000 pounds per hour at 230 pounds per square inch gauge. **Volk Construction** served as the General Contractor during the on-site installation, and **Scheck Industrial, Galt Insulation, Lackey Sheet Metal** and **Rogers-Schmidt Engineering** also served on the project team.

Haberberger was also recently chosen by general contractor **BSI** to install 60 air handling and fan coil units, a 700-ton chiller, a cooling tower and underground site utilities for a new four-story apartment-style dormitory to be built on the Danforth Campus of Washington University. The Village East Dormitory project is expected to be completed in May 2008, and Haberberger has already completed most of the site utilities and set the chiller.

Installing the chiller has proven to be the most challenging aspect of the project thus far. Under the supervision of Superintendent **Nick Pavia** and Project Manager **Chris Jordan**, the team had to disassemble the chiller into three major pieces before it could be lowered by a crane into a sub-grade garage and carted to the chiller room. Each piece of the chiller was then lowered another six feet onto its concrete pad and re-assembled by Haberberger's service team.

JEN Mechanical is in charge of installing the sheet metal for this project, and **Midwest Trenching** is performing the excavation work. **Premier** is installing the insulation on the site.



▲ Haberberger's crew hoists Boiler #6 over the Scott Avenue Pedestrian Bridge at the Washington University School of Medicine. Pictured: Terry Gibson, Tim Gallagher, Ed Quinn, Chad Huff, Dan Daniels and Andy Finklang. Not pictured: Frank Herrell.



▲ Haberberger lowers the 700-ton chiller's main section into the sub-grade garage at Washington University Village East.

Project Update

Currently In Progress

Federal Reserve Building

Superintendent: Tom Masterson
Project Manager: Todd Kramer

Lemay Wastewater Treatment Plant

Superintendent: Phil Jones
Project Manager: Jeff Roberts

Washington University East Village

Superintendent: Nick Pavia
Project Manager: Chris Jordan

Washington University Genome Data Center

Superintendent: Tim Gallagher
Project Manager: Joe Wilhelm

Pfizer

Superintendent: Terry Ungerer
Project Manager: Pat Reilly

Missouri American Water

Superintendent: Dodd Slawson
Project Manager: Hewie Powell

Boeing 101

Superintendent: Ken Bailey
Project Manager: Neil Haberberger

Kerry Foods

Superintendent: Clay Buxton
Project Manager: Jeff Roberts

General Mills

Superintendent: Ed Morawitz
Project Manager: Neil Haberberger

Ameren Portage Des Sioux WFGD Underground Utility Piping

Superintendent: Doug Coonrod
Project Managers: Joe Wilhelm & Steve Haberberger, Jr.

NEW SERVICE CLIENTS

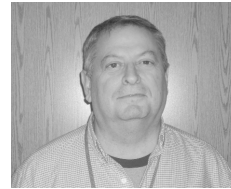
Continental Life Building
Cure of Ars Catholic Church
Lutheran High School
Northwest Airlines
Our Lady of the Pillar Catholic Church
St. Rose Philippine Duchesne Catholic Church
Ashland Oil, Pope Street Facility

Company News

We would like to welcome three new members to the Haberberger family. Jaime Cochran recently joined the service department as a dispatcher; Ron Doty was hired as a piping designer and Dan Franquemont joined the team as a purchasing manager.



Jaime Cochran



Ron Doty



Dan Franquemont

This newsletter is published by:

HABERBERGER, INC.

Mechanical Contractors • 9744 Pauline Place
St. Louis, MO 63123

Phone: 314-631-3324 • Fax: 314-631-2751

www.haberbergerinc.com

Mission Statement of HI

A company dedicated to meeting the needs of the customer, exceeding his expectations, and developing a successful, long-lasting relationship through:

Quality, delivering our service defect-free and on time.

Unending improvement of our services.

Assurance of a constant effort to provide a safe work place.

Leadership, the ability to achieve and accomplish through serving.

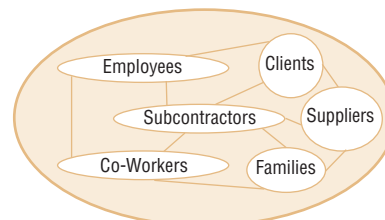
Integrity. It is never compromised.

Teamwork. Together we will achieve.

You, as a vital member of the team, are needed to commit to this mission and be responsible for its promotion and implementation.

This philosophy creates the company direction and purpose, namely:

To CAUSE



OUR CUSTOMERS

T O B E S U C C E S S F U L