

Haberberger Wraps Up Work on Two Projects at Holcim

Haberberger recently completed two separate projects at **Holcim (US), Inc.'s** Ste. Genevieve Plant.

The company recently installed an 18 and 20-inch fly ash system, consisting of 4,000 feet of fly ash pipelines, at the Plant's harbor. The new pipelines will take fly ash, a residue derived from coal combustion in electric power plants, from barges on the Mississippi River across the plant and dump the residue into four fly ash silos. Two 10-inch pipelines, which are 650 feet in length, will then transfer the material to the Plant's alleviator, where the moisture is removed from the fly ash.

On the second phase of the first project, Haberberger was responsible for installing four pulverized coal systems. Haberberger had to install one 14-inch line, which was 220 feet in length, and run it from the coal mills over to the kiln burner. Two 12-inch, 375-foot-long pipelines were run from the coal mills to the calciner. The team also ran two 10-inch pipelines, which were 1,105 feet long, from the pumps to coal bins above the coal mills.

To prevent wear and tear and help the new pipelines maintain their original size, Haberberger fabricated and installed grout-filled wearbacks on both the fly ash and pulverized coal lines fittings. Superintendent **Tim Waldorf** and Project Manager **Pat Reilly** were in charge of overseeing the construction and installation of both parts of the project.

Haberberger was brought into the project in December 2008 after several subcontractors had completed other installation jobs. Not only did the Haberberger team have to navigate through a lot of existing equipment, they were also faced with many frigid days as they worked outside during the winter months.

Several other team members worked diligently to make this project a success. Other project members included construction manager **Washington Group Alberici**, as well as subcontractors **Taylor Cranes** and **Coatings Unlimited**.

During the second project at **Holcim**, Haberberger's team, led by Superintendent **Tim Waldorf** and Project Manager **Todd Kramer**, was in charge of installing process injection systems for lime, ammonia, air and water in the preheat tower calciner and downcomers. Storage tanks for the systems



▲ From left to right, Haberberger crew members **Doug Coonrod**, **Ed Morawitz** and **Danny Johnson** fabricate wearback fittings at Haberberger's Fabrication Shop. The wearbacks were later installed on both the fly ash and pulverized coal lines at Holcim's Ste. Genevieve Plant.

were located on the ground or lower levels of the preheat tower, and piping was routed from the storage areas up to the side of the preheat tower to an elevation of approximately 300 feet above grade.

Haberberger crew members were faced with the challenge of designing and installing a 200-foot-tall prefabricated pipe rack up the side of the preheat tower. In addition, a large portion of the project work took place at the top of the preheat tower, and due to this high elevation, it was more difficult for project members to access tools and other needed materials.

One unique aspect of this project was the vast size and scope of construction for the entire facility. At one point during construction, more than 3,500 workers from numerous contractors and trades were on site. Due to the large amount of people and materials involved, coordination and communication were essential to the successful completion of the project.

HABERBERGER CREW SUCCESSFULLY PILOTS PROJECT AT LAMBERT AIRPORT

Haberberger recently completed work on a large-scale project at **Lambert International Airport**. The project, which consisted of miscellaneous mechanical tasks and system upgrades for concourses and terminals, was executed under the leadership of General Foreman **Dodd Slawson**, Night Shift Foreman **Ed Quinn**, Project Manager **Chris Jordan** and Boiler Plant Foreman **Charlie Bott**. Subcontractors **Galt Insulation**, **Taylor Excavating** and **JEN Mechanical** also had a large hand in the project.

Haberberger's crew was in charge of removing and replacing 24 rooftop units and 23 air handling units in concourses A, B and C, as well as 22 hot and chilled water pumps and associated piping throughout the airport tunnels. They also removed two existing steam boilers and replaced them with two 750 HP high pressure boilers, installed a new 300 HP high pressure steam boiler and removed and replaced four high pressure PRV stations.

Haberberger faced a few challenges along the way. Each one of the rooftop units is located directly above the concourse walkway, where the public walks to the gates. As a result, the majority of the work in concourses A and C had to take place at night, when traffic was minimal. This required extra planning since little service from material and rental equipment suppliers, truck drivers, material deliveries or office support is available during the nighttime hours. Because of this, most deliveries took place during the day shift in preparation for the night.

A second challenge Haberberger faced was the obstacles that came with using a 120-ton crane for the removal and replacement of the rooftop units. Dodd Slawson worked closely with Airport Project Manager **Mark Smith** and **Billy Taylor, Jr.** from Taylor Excavating to ensure that the crane did not interfere with the operation of the airport or hinder movement of the airplanes.

Additionally, the removal of the two existing boilers and installation of the two

new boilers required the use of a 350-ton crane. It was essential for the lift to run smoothly and quickly because a critical section of the airport road was blocked during the lift. The lift was successful due to well-organized preparation and advance planning.

Throughout the project, the comfort and satisfaction of the public was a high priority to the airport. For that reason, only a few heating and cooling units could be replaced at a time, since replacing them required the heating and cooling units to be out of service. Nearly all of the heating and cooling units for the entire main terminal concourses were replaced.

The project, which got underway in spring 2008, was completed in mid-summer 2009.



▲ Haberberger workers (from left to right) Charlie Bott, John Boyd and Dave Walther hoist a 750 HP boiler onto a truck as a Taylor Excavating employee (foreground) looks on. The boiler was then transported to the Airport West Plant for installation.

Haberberger in last phase of Washington University Genome Center Project

Haberberger is currently finishing up work on the final stages of a project at **Washington University's** Genome Sequencing Data Center, located on the medical campus at Forest Park Boulevard and Newstead Avenue. The first phase of the project, which involved installing chillers, cooling towers, pumps, heat exchangers and air handling units, was completed by Haberberger's team last year.

Superintendent **Tom Masterson** and Project Manager **Joe Wilhelm** are heading up the second phase of the project, which got underway in mid-May. Haberberger is in charge of installing another chiller and cooling tower cell, as well as four additional air handling units, two pumps and a plate heat exchanger.

Because the operating system at the Genome Data Center is constantly running, Haberberger had to be particularly flexible with its installations. Like the first phase of the project, Haberberger's team once again had to make sure their work area was clean so that no pollutants interfered with the facility's clean environment. This procedure was followed because the new center is tracking for Leadership in Energy and Environmental Design (LEED) certification by the United States Green Building Council (USGBC), and a clean environment is a standard requirement for all green buildings.

Haberberger worked alongside general contractor **Volk Construction**, as well as subcontractors **Sidney Insulation**, **C&C Group Controls**, **JEN Mechanical** and **Senco Services** to complete the project.

Haberberger Successfully Replaces Chillers at Washington University's South 40 Chiller Plant

Haberberger recently completed a project involving the installation of a new system to replace existing chillers that served many residential buildings on the South 40 part of **Washington University's** campus. Haberberger's team was in charge of installing two new 1,100-ton reciprocating chillers, three 150 HP chiller water pumps, three 40 HP condenser water pumps, four 550-ton cooling towers, an air handling unit, an automated chemical treatment system and associated piping. The construction was overseen by Superintendent **Tim Gallagher** and Project Manager **Chris Jordan** and completed in cooperation with subcontractors **Johnson Controls Inc.**, **JEN Mechanical** and **Galt Insulation**.

Throughout the project, staying on schedule was imperative for the Haberberger team. The existing system was scheduled to be demolished in early June, and if the chillers were not installed and operational two weeks prior, the scheduled demolition could not proceed. This delay would have been devastating to the overall project schedule; however, Haberberger's team was able to complete the job on time.

The project team was faced with some unique challenges that threatened to thwart the construction agenda. During the majority of the project, classes remained in session at Washington University, meaning that measures had to be taken to ensure the safety of the students. Therefore, all deliveries were scheduled in advance so that traffic would not be hindered and roads would not be blocked, allowing the students safe access to streets and sidewalks.

Because there was no area available to store the material, equipment or fabricated pieces, all deliveries had to be installed immediately. Haberberger also was faced with the challenge of the chiller plant being located below grade. Because of this, all deliveries had to be hoisted by a crane from the trucks into the sub-grade plant.



▲ Three condenser water pumps (foreground) and two chillers (background) are pictured above.



◀ The four 550-ton cooling towers, which were installed by Haberberger's crew, are pictured.

(continued on page 4)

Haberberger Completes Work at AmerenUE Meramec Plant

Skilled workmanship and strategic planning were running themes the past few months as Haberberger finished up work on two separate projects at the **AmerenUE Meramec Plant**.

Haberberger's team, headed up by UA Local 562 Superintendent **Doug Coonrod** and Project Manager **Joe Wilhelm**, began installing an ammonia injection system in April, in order to combat pipe corrosion. Several skids had to be mounted, and a 15 percent ammonium solution was injected into the feed water system. This project was especially challenging because it necessitated detailed planning and coordination in order to route 3,000 feet of stainless tubing around the maintenance operation systems and other obstructions.

K&F Electric assisted Haberberger with this project, which was completed at the end of June.

To help Ameren comply with new requirements instilled by the **Metropolitan St. Louis Sewer District (MSD)**, Haberberger was hired by **St. Louis Bridge** in a separate project to perform several wastewater improvements. In March, Haberberger's team, headed by Coonrod and Wilhelm, began constructing AmerenUE's new waste water system and lift station and integrating the plant's new sanitary system into MSD's system.

During the project, Haberberger installed 6,000 feet of piping, air relief valves and 2,000 feet of gravity system infrastructure using 2,500 feet of directional boring. Workers had to be particularly cautious to dig correctly and follow proper safety measures because of the 10 to 25-foot depth and proximity to existing underground critical piping.

Collins and Hermann, Inc., performed the excavation. The project was completed in late-July.

Project Update

Currently In Progress

AmerenUE Portage Des Sioux

Superintendent: Doug Coonrod
Project Manager: Steve Haberberger, Jr.

Anheuser-Busch InBev Mechanical Maintenance Contract

Superintendent: Dave Brightman
Project Manager: Jeff Roberts

AmerenUE Taum Sauk

Superintendent: Clay Buxton
Project Manager: Joe Wilhelm

Boeing Building 245

Superintendent: Tom Masterson
Project Manager: Neil Haberberger

MSD Lemay Wastewater Treatment Plant

Superintendent: Phil Jones
Project Manager: Jeff Roberts

AmerenUE Meramec Plant

Superintendent: Ted Reigner
Project Manager: Joe Wilhelm

Covidien Nitrogen Project

Superintendent: Charlie Bott
Project Manager: Pat Reilly

NEW SERVICE CLIENTS

St. Louis Workout
Lemay Child Care
Katy Industries
Famous Footwear
Trans State Airlines
625 Skinker Condominiums
Another Perfect Image Salon
St. Rita Catholic Church
Olive Surgical Group
Little Flower Catholic Church
Church of the Annunciation
Fab Lab, Inc.

WASHINGTON UNIVERSITY *(continued from page 3)*

Deliveries from Haberberger's fabrication shop, which were headed up by Shop Foreman **Jerry Ditch**, along with deliveries from Haberberger's warehouse and suppliers had to be tightly coordinated in order to avoid deliveries at the same time.

In spite of time, schedule and space constraints, the chiller plant installation ran smoothly and efficiently, much to the delight of those at Washington University.

"I appreciate the efforts of the subcontractors for the South 40 Chiller Plant who did a fine job of coordinating all the loose ends and finalizing all the parts and pieces necessary for starting up the chillers," noted Washington University Project Manager **Matthew Conlon**. "There was a lot of work to be accomplished in a short period of time, and each of the subcontractors stepped up to the plate to ensure that we had fully functioning chillers in a watertight environment."

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:

