

Project Title **Green Construction of Administration Building**

Full Scale Implementation OR Pilot Scale/Study

1. Description of the project: What is the issue and how did you fix it?

When constructing the new administrative offices, we used Pozzotive Plus Concrete Bricks instead of traditional clay bricks.

2. Environmental Benefits: Conservation of raw materials or energy, reduction or elimination of emissions, wastes, toxics, water discharges, etc.

Pozzotive Plus bricks use 88% less energy to manufacture than clay bricks.

3. Other Benefits: Productivity, health and safety, employee morale, etc.

4. Cost Savings: Capital cost, operating cost, ROI or other pertinent cost information.

5. Applicability to other foundries and additional Comments

6. Applicable Environmental Categories and Foundry Processes. Select all that apply.

Environmental Categories

- Carbon (GHG) Emissions Measurement and Reduction
- Air Quality Water Use and Discharge Waste Management
- Beneficial Use Stormwater Material and Resource Conservation
- Community Engagement

Foundry Process(es) Impacted

- Melt Pour Mold Core sand system/reclaim
- Shakeout Heat Treat Quench Finishing Shipping
- Maintenance Pattern Shop Casting Design
- Management Systems and Metrics
- Other, explain:

7. Add photos to enhance your application, if applicable.

Photos of Article on Next 2 Pages

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The Maintenance department recently got some new paperwork to hang up in the office.

Beau Quick has received his diploma from Penn State University, with the degree of Associate in Engineering Technology from the College of Engineering.

To go along with his most recent accomplishment, Beau has already received a degree with a major in Electrical Engineering

Technology. He plans on continuing his education to receive a Bachelor's degree from Penn State University. Congratulations on your achievements.



There is always time for more education, and Randy Kadtko is a prime example.

Randy recently graduated Magna Cum Laude at Luzerne County Community College, with a degree in Automated Manufacturing.

Randy has been at Benton Foundry for a little over a year now, and enjoys the diversity of work that he does every day. He

has previously worked in automated manufacturing, which led him to get his degree. He has had a smooth transition so far into the quality control lab, and is getting more acclimated every day. Randy's favorite hobby is hanging out with his two and a half year old grandson.

TUITION HELP

Benton High School is only a few miles down the road, and the class of 2012 recently graduated. Congratulations to the students, and in particular, Gregory Harvey.

Benton Foundry has contributed to the Benton Area Business Award, a scholarship for business students, for the past few years. The scholarship recipient must be a business student recommended by the Business Department teachers, and this year the winner was Gregory!

Iron Casting Research Institute (ICRI)

The ICRI regularly conducts a Spectrometer proficiency Testing Program. This testing evaluates the repeatability and reproducibility of our lab. Of the 36 labs currently participating in this program, we are one of only 3 that has consistently had no outliers. In other words, the accuracy of our chemical testing is second to none. Congratulations to Keith Provine and lab techs Deb Martz, Jeanette Felix, Caroline Mengine, Victor Vieira, Deb Fagan and Chris Broyan.

GOING GREEN WITH NEW CONSTRUCTION

The new administration building is nearing completion, with the finishing touches set to be done in the next few weeks. A major trend in new construction in the United States lately has been "Going Green," and Benton Foundry is no exception. The green movement has been around for a while, but has recently become a national emphasis. "Going Green" can mean anything from reducing energy consumption with CFL light bulbs or Energy Star® appliances, or decreasing the amount of waste produced.

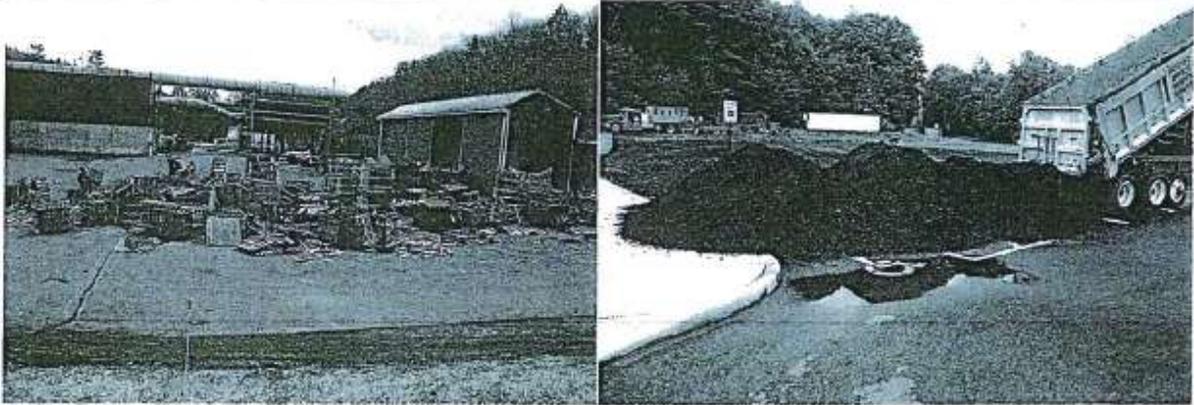
The bricks used in the construction are from Kingston Block and Masonry Supply, LLC. The company makes an alternative to the traditional clay bricks, which allows them to greatly reduce energy consumption during manufacturing. Their Pozzotive Plus™ bricks are made with concrete, and only use 12% of the energy to produce when compared to a clay brick.

Additionally, the concrete bricks can be made with post-consumer products, which is a non-option for the clay variety. They can also have a non-VOC coating applied, which is less prone to deterioration. The building has also qualified for federal government energy credits.





WHAT'S NEW AT BENTON FOUNDRY



Using recycled materials and environmentally friendly building options has been at the forefront of the new construction going on. The landscaping mulch as seen in the front and sides of the building is no different. The mulch is made of old Benton Foundry crates and pallets that would have been otherwise unusable.

