

☐ Sand Conditioner Upgrade

Full Scale Implementation OR Pilot Scale/Study

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

Replaced current fluidized bed sand conditioning system for the core sand to a modern indirect plate heat exchanger. This is the new state-of-the-art technology recently introduced to the foundry industry for sand conditioning needs.

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

Much lower energy consumption.

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

Much tighter process control, increased resistance to sand classification issues, dramatic reduction of wear parts, much lower energy consumption for heating and cooling, gravity fed system.

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

5. Applicability to other foundries and additional Comments

Yes

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.