Dust Collector Variable Frequency Drives & Controls

	OR	☐ Pilot Scale	/Study
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1. Description of the project: What is the issue and how did you fix it?

We installed variable frequency drives on the drive motors of our dust collectors to address inefficient dust collector operation.

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

We accomplished energy conservation to the tune of roughly 1.5 million kWh annually. These upgrades were applied to 3 baghouses for a total of 240,000 CFM of ventilation control.

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

Visited by Pennsylvania Department of Environmental Protection Secretary and others to celebrate the project.

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

We received a rebate from Pennsylvania's Act 129 program for \$122,000. Annual savings are around \$100,000.

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							
\square Air Quality	\square Water Use and I	☐ Water Use and Discharge		\square Waste Management			
\square Beneficial Use	\square Stormwater	⊠ Material a	and Resource Conservation				
□ Community Engagement							
Foundry Process(es) Impacted							
□ Melt □ Po	ur 🗆 Mold	\square Core	\square sand syste	em/reclaim			
\square Shakeout \square	Heat Treat □ Qu	ench 🗆 1	Finishing	\square Shipping			
\square Maintenance	\square Pattern Shop	\square Casting Design					
☐ Other, explain: ☐Click or tap here to enter text. ☐							
7. Add photos to enhance your application, if applicable.							