

☐ Comprehensive Lighting Efficiency Upgrades

Full Scale Implementation OR Pilot Scale/Study

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

In an attempt to overhaul our lighting systems in general we replaced metal halide high-bay fixtures with LED equivalents, replaced many fluorescent fixtures with LED, replaced non-sealed LED fixtures with sealed ones (dust infiltration protection), installed and programmed occupancy sensors to reduce lighting usage in low occupation areas, installed daylight harvesting sensors near scrap bay doors to maximize natural light usage.

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

Reduction in annual electricity consumption by over 600,000 kWh.

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

Brighter lights with less time-fade improve productivity, safety, quality control, and worker morale.

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

We received a rebate from Pennsylvania's Act 129 program for \$12,500. Annual cost savings is over \$30,000.

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
- 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.

Photo on Next Page

