



CASE STUDY

INDUSTRY: CHEMICALS



CUSTOMER: GE Plastics

LOCATION: Burdette, Alabama/, USA



BACKGROUND: Armstrong International performed a composite audit of the utility services at the GE Plastics Facility in Burdette, Alabama. Maintenance monitoring audits shall be performed on a quarterly basis with a focus on energy conservation.

SCOPE OF WORK:

Tracing

- Plantwide steam tracing system design recommendations
- Quarterly audits shall include monitoring tracer circuits and steam condensate manifolds with engineered P&ID updates

Insulation

- Plantwide utility piping insulation
- Quarterly inspections to maintain best in class

Steam Traps

- Plantwide steam trap population
- Quarterly inspections to maintain energy conservation efficiency

Compressed air and N2

- Plantwide air and nitrogen systems
- Quarterly inspections shall include maintenance monitoring of potential leaks

Cooling water survey and Delta-T-Optimization

- Plantwide cooling water survey
- Quarterly inspections of temperature indicators, pressure indicators and heat exchanger optimums (Delta-T) for energy conservation efficiency

BENEFITS: GE Plastics recognized substantial annual energy cost savings by implementing best in class utility maintenance and relying on an intelligent monitoring database. GE Plastics also improved utility piping/insulation system efficiency and reduced the number of unscheduled maintenance. GE's maintenance personnel's efficiency has also been enhanced.

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