



Steam System Optimization

Customer: Danone de México

Location: Irapuato, Guanajuato, México

Scope of Work: Armstrong International was awarded an engineering service contract from Danone de México. Armstrong International maintains a crew of two on-site employees. Major repairs and installations will be managed by Armstrong by using the local mechanical contractors.

- Upgrade Projects:**
- Implement a steam trap optimization program: survey, database, selection, sizing, install, repair, and replace of the steam trap population
 - Plant-wide steam distribution recommendations and condensate return
 - Redesign and install drip legs
 - Engineering of piping installations of steam distribution lines and condensate return
 - Maintenance of pump traps, PRVs, and install sensing lines and condensate equipment
 - Correct all live steam/condensate leaks
 - Plant-wide utility piping, valves, and fittings insulation
 - Improve maintenance procedures of four boilers and combustion adjustments

Contract: The total value of this agreement, no materials included, is \$40,296.

Terms: Project scope began in August 2004.

Benefits: Armstrong International reduced fuel consumption and increased condensate return.

