# 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.