



CASE STUDY

INDUSTRY: FOOD & BEVERAGE



CUSTOMER: Grupo Danone México (Danone)

LOCATION: Irapuato, Guanajuato, México



BACKGROUND: Danone is the world's leading brand in fresh dairy products as well as plant-based products and beverages. Danone has food and beverage processing facilities in virtually every corner of the world. Armstrong International was awarded an engineering service contract from Grupo Danone México located in Irapuato, México. Danone's operations in México is the country's main plant with 20 production lines that generate dairy-based foods distributed to several countries in Latin America and Central America.

The production volume of this particular plant is more than 420 thousand tons per year. With 1,800 employees, Danone's Irapuato plant processes brands such as Activia, Benegastro, Danette, Danonino, Danup, Oikos and more.

SCOPE OF WORK: Armstrong maintains a crew of two on-site employees. Major repairs and installations are managed by Armstrong by using the local mechanical contractors. In addition, Armstrong conducted several upgrade projects that included:

- Implementation of 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
- Redesigned and installed drip legs
- Engineered piping installations of steam distribution lines and condensate return
- Maintenance of pump traps, PRVs, and installation of sensing lines and condensate equipment
- Correction of all live steam/condensate leaks
- Plant-wide utility piping, valves, and fittings insulation
- Improved maintenance procedures of four boilers and combustion adjustments.

BENEFITS: With Armstrong's recommended optimizations, Danone's Irapuato plant realized reduced fuel consumption and increased condensate return as well as significant energy savings credited to the implementation of Armstrong's steam trap optimization program.