CASE STUDY

INDUSTRY: **PHARMACEUTICAL**

CUSTOMER: GlaxoSmithKline

LOCATION: Rixensart, Belgium

BACKGROUND: The facility was concerned with the potential damaging effect of the severe water hammer they were experiencing in their condensate piping near their R&D Lab. They knew that piping failure could occur and threaten equipment, the lab, and personnel in the area. They called Armstrong International in to provide solutions.

SCOPE OF WORK: Armstrong conducted a complete three week condensate system study by utilizing Armstrong's proprietary water hammer monitoring equipment that helped determine severity, location, and cause. This information provided the data required to design system solutions.

Armstrong delivered a complete turnkey installation of a custom designed flash tank that could separate the flash steam (which was causing the water hammer) from the cooler condensate. This allowed the flash steam to be used for building heat and reduced the required load on the gas-fired boiler (producing energy savings).

The water hammer was eliminated as a result. Armstrong provided a post installation water hammer measurement, as part of the installation performance guarantee, to validate the system solution recommendation.

BENEFITS: GlaxoSmithKline also benefited from the following:

- Water hammer was eliminated
- Simple payback of less than two years on the investment
- Lab area personnel were happier with the overall safer work atmosphere

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