



Optimize Steam and Condensate Recovery

Customer: Taiyuan Iron & Steel

Location: Taiyuan, China

Scope of Work: This facility knew it had very inefficient steam and condensate systems and felt it did not have the on-site expertise to determine the area of inefficiencies nor how to prioritize and manage the work. Armstrong International addressed these needs by discovering the areas of inefficiency, justifying the work on an economic basis, and then performing the work on a turnkey contract.



Upgrade Projects:

- Armstrong engineered and installed a flash steam system to recover the flash steam and use the recovered flash steam to replace the fresh steam in the Primarily Distillation Tower, thus reducing the steam generation.
- Installed a condensate recovery system to improve the overall steam system efficiency.
- Re-engineered and optimized the steam trapping system to improve steam efficiency and eliminate steam loss, while meeting the requirements for the condensate recovery system.

Contract: The total value of the agreement was \$118,000.

Terms: The project upgrades were completed in July 2001.

Benefits:

- Total project savings: \$118,000
- Payback period: 1 year

