

BENEFITS:

- Eliminate excess steam usage
- Lower condensate load
- Process will remain heated
- Reduce water hammering
- Identify all safety issues

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Steam Trap Case Study

BACKGROUND:

The client is a leading producer of oil and gas in the U.S. They employ over 400 employees and is located on about 551 acres. Client is refining 131,000 barrels per day.



To reduce the steam load, keep the processes heated and to evaluate all steam lines. Investigate why the condensate system is overheated.

SOLUTION:

Locate and identify and test all steam traps by using ultrasonic, thermographic and visual inspection. Inspect the steam and condensate system during survey.



RESULTS:

We identified multiple steam traps that were malfunctioning, also found multiple bypass valves that were bypassing the traps and going to the condensate system.

STEAM TRAP SURVEY

- Total Traps 1,844
- Total PPH loss 267,126
- Est. Annual \$ Loss \$1,473,782

RECOMMENDATIONS:

For the client to implement a yearly steam trap survey into the preventative maintenance program to keep the steam and condensate load down. Investigate why bypass valves were open.