Steam Trap Monitoring Program

- Over half of the fuel consumed by the chemical industry is used to generate steam.
- The Cedar Bayou facility consumes approximately 1.5 million pounds of steam per hour.
- A 1991 study revealed that over one quarter of Cedar Bayou’s 6,400 steam traps needed repair.
- The facility instituted a program of semi-annual trap surveys and periodic monitoring.
- Field device removes judgement from the technician; consistent results obtained with little experience or training.
- Field data is uploaded to a PC for leak quantification, further analysis, and reporting.
- Corrective action taken based on the reports provided.

Benefits

- Increases efficiency and reliability of the steam system and associated process equipment.
- Has saved $3 million during the first three years.

Trap performance data is collected using a handheld device with temperature and ultrasonic probes.

Chevron Phillips Chemical Company LP

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