

FOCUS

on efficiency and safety

**For steam-driven operations,
the key is targeting your efforts.**

**STEAM MIDWEST
can show you how**



Reduce Energy Costs, Improve Performance and Safety with a smart maintenance strategy

FOCUS ON STEAM

Making sure steam is distributed and used with minimal waste can pay off in immediate energy savings and operating efficiencies. Even minor leaks through steam traps, valves and pipe fittings can be costing your organization thousands of dollars in wasted energy and lost production. In addition, a steam system can become a major safety hazard when steam traps fail or are incorrectly applied.

But where do you start? And even if you have an idea where the trouble spots are, it can be a challenge to address them *and* stay ahead of your everyday maintenance issues.

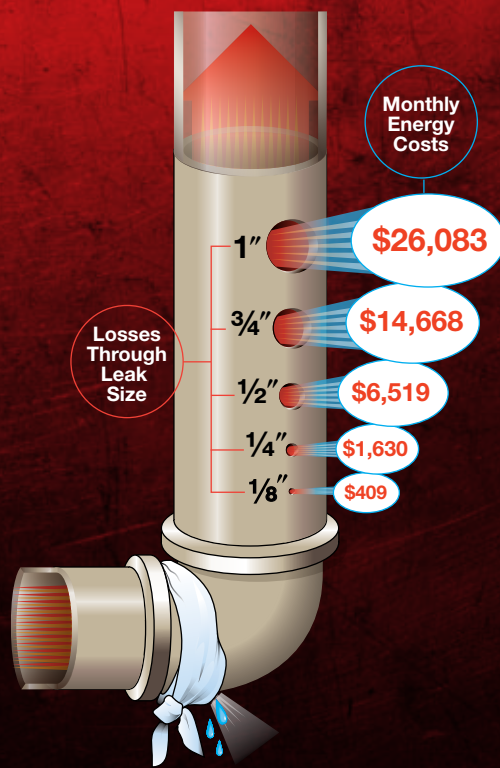
LOOK TO STEAM MIDWEST

A service division of Mid-States Supply Company, Steam Midwest was formed in response to customers' requests for help in optimizing and maintaining their steam systems. Steam Midwest specializes in steam trap surveys, troubleshooting, engineered solutions and repairs.

START WITH A STEAM TRAP SURVEY

We recommend a steam trap survey for three primary reasons:

- 1 Malfunctioning traps can cause substantial increases in energy costs and downtime
- 2 Steam traps aren't often targeted for regular maintenance
- 3 A survey is a quick, cost-effective way to determine the health of your entire system



Assumptions
 • Model = compressible flow analysis, sharp edge orifice leak
 • Cost = \$9.50 per 1,000 pounds of steam
 • Pressure = 150 psig

Source: Steam System Survey Guide. ORNL/TM-2001/263 p. 6-2.

U.S. DEPARTMENT OF ENERGY • STEAM TIP SHEET #1

Recommended Steam Trap Testing Intervals		
High-Pressure	150 psig and above	Weekly to Monthly
Medium-Pressure	30 to 150 psig	Monthly to Quarterly
Low-Pressure	below 30 psig	Annually

Resource: DOE/GO-102006-2248 • January 2006

Our experienced technicians log the size, manufacturer, model, location and service of each steam trap and attach a laser-etched stainless steel tag. Then they take temperature and ultrasonic readings to determine precise operating status.

Our survey report will provide you with:

- A list of poorly functioning steam traps, prioritized by estimated annual steam loss
- The current condition of *every* trap in your facility (e.g., OK, failed open, failed closed, low temp., wrong trap, out of service, disconnected, other problem)
- Complete information that allows you to direct maintenance resources in the most cost-effective way

Finally, we'll make recommendations for maintenance, repairs or changes to operations based on our observations and extensive knowledge of best practices.

FOLLOW THROUGH WITH PHASED-IN REPAIRS AND MAINTENANCE

Based on the survey results, we help you develop a plan to net the most immediate improvements with minimal disruption to your operations and budget.

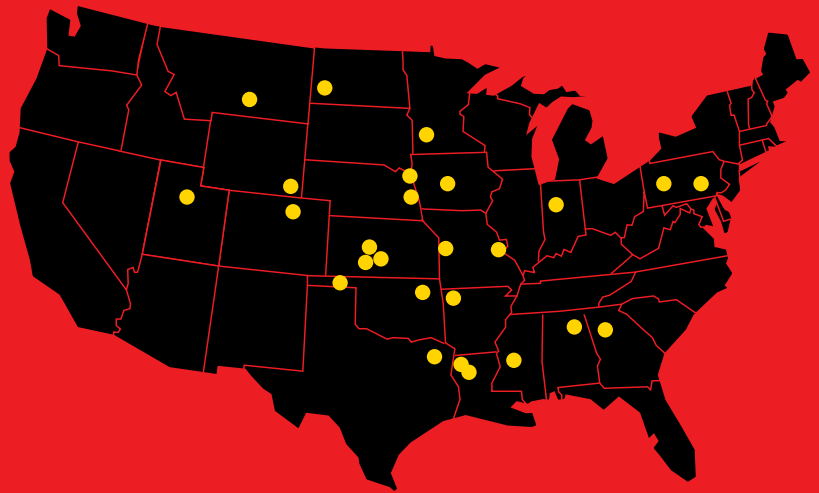
If you decide to handle all or part of the tasks internally, we'll work with your maintenance personnel or local contractor to clarify what needs to be done. In certain markets, Steam Midwest can perform the work for you, using our in-house team of steamfitters. Our mobile job trailers are fully stocked with bar-coded inventories so you can be sure you only pay for exactly what gets installed.

Either way, we'll help you establish an effective maintenance system that allows you to achieve your goals as quickly and as easily as possible.



STEAM MIDWEST also offers these complementary services to help you troubleshoot problem areas and identify additional performance enhancing opportunities in your facility:

- Compressed air leak audits
- Infrared thermography
- Insulation audits.



MID-STATES LOCATIONS

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**STEAM
MIDWEST**