

Industrial Gas Audits



“A pinhole leak in a high pressure gas line is a serious safety concern. Plus, it can cost you tens of thousands of dollars per year. For example, if your facility has just one 1/32 inch hole in a line operating at 80 psig working pressure, your wasted gas costs can be greater than \$10,000 per year. That’s why it’s so important to find and repair any leaks in your lines.”

John Dwyer

Air Products
Applications Engineer

Industrial gases, due to their common usage in metals processing or heat treating operations, are often overlooked as an opportunity for improving the bottom line. An industrial gas audit can often be an excellent way to identify savings and performance benefits.

Audits can be as broad or as narrow as required by your facility, from comprehensive assessments of the entire gas supply system – storage tanks all the way through the piping to the individual use points – to reviews of the gas flow control, metering, and blending equipment, or the actual furnaces and process equipment that use the gas. Air Products’ team of industry focused engineers has the hands-on knowledge to help you identify ways to add value to your operations.

The services we can provide include:

- Proper sizing of delivery systems, piping, and related equipment
- Supply and delivery optimizations
- Monitoring equipment for flow and purity
- Checking the calibration of flow metering and blending devices
- Leak checking of piping, components, and equipment
- Analysis of actual gas composition being used, especially for blended gases
- Profiling of furnaces to determine proper gas purity, pressure, and consumption
- Review of process to optimize flow rates and/or blended gas ratios at various use points
- Recommendations of different gas compositions and/or improvements to metering or blending equipment

A comprehensive analysis of your current and future industrial gas requirements can also include flow monitoring at your site and an evaluation of the operating process. By performing this analysis we gain an understanding of your present and future requirements, enabling us to recommend the right supply option for your process. For instance, depending on your volume and purity requirements, some of our customers have been able to achieve 20-40% cost savings by replacing truck delivered nitrogen with an Air Products PRISM® nitrogen on-site generation system.

Whether you are a small heat treat shop or metals fabricator or a large Fortune 500 manufacturing plant, Air Products has performed audits for a wide variety of customers like you. In many cases, customers who implement our audit recommendations realize cost savings in excess of the audit costs within just a few months.

Audits can also improve quality and production as well as yield safety benefits for your operation. For example, a leak in a pipe not only wastes gas but may result in oxygen or moisture contamination in your industrial gas house line. Contact us to learn how an Air Products' audit can improve your bottom line.

Rely on our Experience

For decades, Air Products has safely and reliably produced and delivered industrial gas worldwide. By calling on Air Products to perform an audit at your facility, you take advantage of the knowledge, expertise and skills we have accumulated while maintaining thousands of industrial gas systems around the world.



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