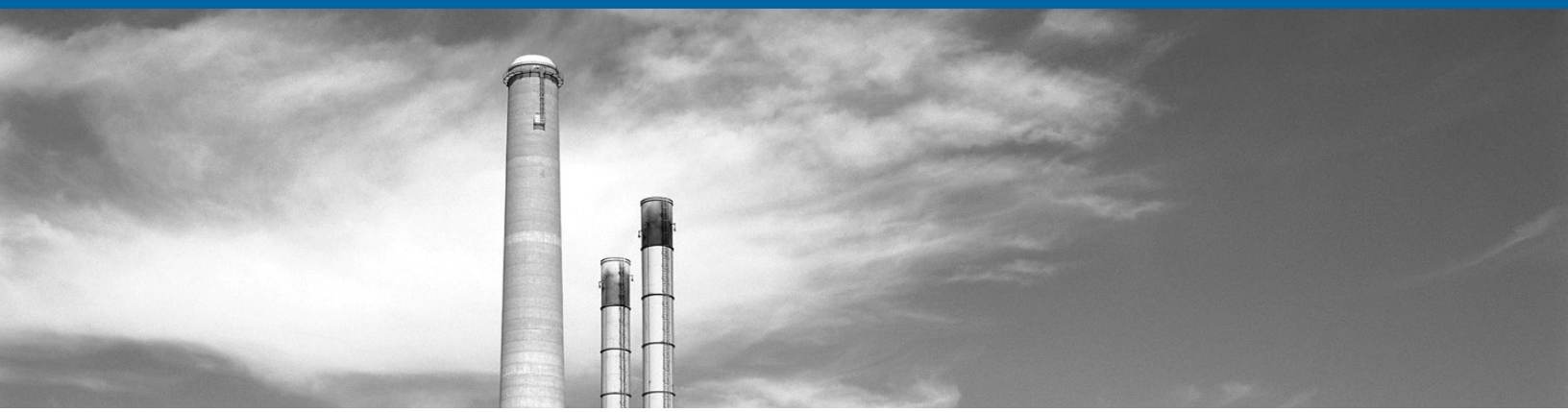
air quality services



For nearly 25 years, Barr has been helping industrial and manufacturing clients obtain state and federal air permits for processes and equipment subject to:

- National Ambient Air Quality Standards (NAAQS)
- New Source Performance Standards (NSPS)
- Maximum achievable control technology (MACT) standards for hazardous air pollutants
- Prevention of Significant Deterioration (PSD) permits
- Title V requirements

air quality permits

Obtaining the right operating or construction permit for a facility (or updating an existing permit) requires significant planning, regulatory strategy, and recordkeeping support. It's important to consider not only current operations, but the possibility of adding new processes or expanding existing ones. Barr's strategic approach to permit application helps clients secure permits that accommodate current operations while allowing flexibility for growth and change.

Clients in a wide range of industries have trusted Barr to devise economical solutions to unexpected compliance problems. By conducting Prevention of Significant Deterioration (PSD) reviews, performing emissions netting, and negotiating with regulators, Barr helps businesses develop strategies for handling permit surprises.

continuous compliance support

Compliance responsibilities don't end when permits are issued. To help ensure continuous regulatory compliance, companies turn to Barr for assistance with onsite compliance; monthly, quarterly, and annual reporting; data management; and recordkeeping. We also help clients implement compliance management systems; conduct continuous emission-monitoring audits; and provide stack testing.

comprehensive services

Barr provides assistance with all aspects of air-quality permitting, including:

- air emission controls
- air-toxics risk assessments
- ambient air monitoring and data analysis
- best available control technology (BACT)
- compliance-management systems
- construction permits
- continuous emission-monitoring systems (CEMS)
- development of emission factors
- dispersion modeling
- emission-control technology review and system design
- emission estimates and inventories (including for greenhouse gases)
- NSR and PSD review
- permit modification
- public-utility regulatory processes
- recordkeeping and reporting assistance
- regulatory analysis and strategy
- risk management plans
- stack testing

regulatory applicability analysis

Some types of emission sources—such as tanks, coating operations, combustion sources, or minerals processing plants—are subject to standards of performance such as national emissions standards for hazardous air pollutants (NESHAPs), new source performance standards (NSPS), and maximum available control technology (MACT) standards. We can help you determine which regulations apply and whether your facility is in compliance.

control technology review

If a project triggers a new source review, companies may be required to install lowest achievable emission rate (LAER) equipment. In an attainment area, if a Prevention of Significant Deterioration (PSD) review is triggered, best available control technology (BACT) may be required. "Best available" means that energy use, as well as economic and environmental impacts, will be factored into the technology review. Barr's engineers have the experience with process and equipment evaluation needed to perform a thorough and efficient review.

stack testing

Twenty years after Barr first began performing stack testing, many of our original clients continue to hire us for this service. One reason for these long-term partnerships is that clients know they can count Barr's chemical engineers and technicians to do the work right the first time, which ultimately translates to efficiency. Our team members are well-versed in regulatory monitoring requirements, testing technology, and safety. The result? Accurate data at the expected price—on time.

Our stack-testing services include:

- test-plan preparation
- regulatory negotiation
- sample collection
- process-data monitoring and collection
- lab-analysis coordination
- data analysis and interpretation

When a situation calls for a new approach, businesses rely on Barr's experience adapting NIOSH, OSHA, NCASI, and other methods to collect a wide range of organic and inorganic compounds. We also use diagnostic techniques such as particle sizing and three-dimensional flow profiling, and perform indoor and ambient air-quality monitoring.

Barr's stack-testing expertise encompasses dozens of EPA and other standard source-testing methods

greenhouse gas inventories

Barr has helped clients in numerous industries calculate their greenhouse gas emissions and develop reduction strategies. Conducting inventories early helps facilities:

- establish a current baseline to reap the benefits of future reductions
- quantify the benefits of innovation
- show commitment to emission reductions