

AIR QUALITY SERVICES

With the myriad of air quality issues facing facilities and operations, it becomes necessary to plan and operate with a keen awareness of the effect of air emissions and regulations on operations and the environment. The air quality issues that can be encountered range from being quite simple with quick analyses and solutions or can be complex with lengthy analyses and solutions.

ALTUS helps companies address air quality related issues ranging from the simple to very complex.

ALTUS Environmental, LLC has air quality capabilities to help address both simple and complex key issues facing facilities and operations. We have senior expertise bringing over 25 years of experience addressing air quality permitting, regulatory, and technical issues for existing and proposed new facilities. ALTUS brings depth of experience along with the personal touch and affordable nature of a small business. We are capable of using our staff's excellent experience and the low overhead of a small business to provide in-depth analyses and solutions in a cost-effective manner.



ALTUS has multiple offices and our offices share many resources, being interconnected through electronic means, including a common company-wide computer server network. Having multiple offices

can allow us to effectively utilize resources in local offices without incurring travel costs. It may be possible to use staff out of the nearest office if needed.

ALTUS' air quality staff has worked extensively on projects involving permitting, regulatory, and technical issues for existing and proposed new facilities. Our senior air quality staff, with their many years of air quality experience, can provide in-depth and cost-effective solutions to the variety air quality issues facing different facilities and operations. Our in-depth understanding of air quality regulations and issues and how they can affect operations is extremely valuable and can come only with the experience we possess. ALTUS' staff has conducted air quality work at

EXPERTISE

- ✓ Air Quality Regulatory Review
- ✓ Air Quality Emissions
- ✓ Air Quality Impact Analyses
- ✓ Air Quality Permitting
- ✓ Air Quality Compliance

facilities and operations in various regions with strong expertise in the key industries of electric utilities, mining, and oil and gas.

SERVICES

The air quality services ALTUS provides include, but are not necessarily limited to the following:



- ✓ *Feasibility and planning analyses*
- ✓ *Regulatory and permitting evaluations*
- ✓ *Source and emissions inventories*
- ✓ *Control technology evaluations*
- ✓ *Air impact analyses*

Descriptions of the areas of expertise are presented below:

Feasibility and Planning Analyses.

ALTUS understands and appreciates the need to obtain air permits with as little monitoring and reporting as possible while maintaining

The excellent reputation and extensive experience of ALTUS' air quality staff allows us to successfully work with regulatory agencies on behalf of our clients to find workable solutions to issues.

maximum operational flexibility. One of the best ways to acquire flexible and less burdensome air permits is to evaluate the environmental regulatory and permitting process as early as possible in the planning stages of a project. ALTUS' air quality staff has routinely assisted facilities in preliminary project feasibility and planning stages. Assistance in preliminary stages has aided in obtaining permits designed for operational and financial success while getting the permits in a timely manner. ALTUS' staff has worked closely with clients to determine whether there are areas of risk associated with the proposed design of new facilities or changes to existing



operations. ALTUS' air quality staff includes senior experts who are adept at melding facility operational needs with air permitting and other air regulatory requirements.

Regulatory and Permitting Evaluations

Most facilities with air emissions are required to obtain an air construction, operating permit, or both. Permitting is typically conducted on a state or local level, requiring that permits meet the state or local regulations which are also required to comply with federal regulations. ALTUS has senior staff with extensive knowledge of federal, state and local air regulations and permitting requirements, as

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existing facilities has included projects ranging from the routine to the very complex. We have routinely developed and maintained cordial professional relationships with permitting agencies, which is an attribute we believe is most conducive to successful permitting. We have been able to negotiate with regulatory agencies on behalf of our clients on permitting, compliance, and analysis requirements and take part in related planning and lobbying efforts.

Source and Emissions Inventories

A key aspect of air quality is determining what is emitted into the atmosphere by the facility or operations. ALTUS' staff has

The extensive experience of ALTUS' staff in conducting the technical aspects of air quality analyses brings cost-effective and innovative methods and solutions.

extensive experience preparing inventories of sources and emissions. Our senior staff's many years of experience conducting air quality evaluations has led to in-depth knowledge of regulated- facility sources, the types of information needed, methods for gathering necessary information, and techniques for estimating emissions in a manner acceptable to regulators. This has included the development of unique tools to accomplish the source and emission inventory tasks.

Control Technology Evaluations

Emissions may be emitted directly to the atmosphere or they can be controlled in some fashion to reduce the emissions. There are regulations requiring the evaluation

of 1) whether emissions must be controlled and 2) if controls are required, the evaluation of control methods to use. ALTUS' staff has experience conducting control technology assessments which usually involves conducting and documenting sound engineering, economic, and environmental evaluations to determine the types of controls that must be used. Control technology evaluations typically include the negotiation of control technology requirements with the regulatory agencies involved.

ALTUS' staff has used their vast experience to develop unique tools to solve difficult issues that can arise in doing air quality impact analyses.

Air Impact Analyses

It's sometimes necessary to evaluate the actual and potential impact of air emissions on the ambient air in the vicinity of the sources. There are regulatory, health, and guideline limits on the impact of many of the compounds emitted. Determining the impacts of emissions to the air typically involves calculations using computer software. The many years of experience of ALTUS' senior staff provides an understanding of how numerical model input parameters affect predicted results. ALTUS can use the understanding of predicted impacts to avoid and solve problems that may arise. Distinctive project needs have led to the development of unique tools for evaluating the vast amounts of data produced by standard air quality models. ALTUS' staff has a very good understanding of the inner workings of the air quality models and the complex data files they produce.



ALTUS' senior staff have developed unique software tools over the years for evaluating the data created by the air quality models which make the data less complex and more useful in routine evaluations.



ALTUS was founded in 1994 and has multiple offices. More ALTUS information can be found at www.altusenviro.com. For additional information on our air quality consulting services and to determine how we can meet your air quality related needs, whatever they may be, contact Robert Hammer at:

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