

AIR QUALITY

Permitting and Modeling

November 2013

Major Source PSD

Our clients look to us for unique solutions to complex permitting and modeling projects. Why? Because Environmental Information Logistics (EIL) staff have not only permitted major source facilities, we have worked on process system designs, performed process system audits, and members of our staff have even worked at process facilities at the start of their professional careers. This gives EIL a client perspective when developing permit applications. We know many of the processes that clients use in their business and use that knowledge to work with clients on their specific permitting project.

“This is a perfect example of Adapt, Overcome, and Conquer by the best team in the business. Thank you for all your hard work and dedication achieving this permit”

- Robert I

Nationwide Experience

We've been there, done that.



Air Permitting & Compliance

- PSD, N-NSR
- NSPS, NESHAP
- Title V
- GHG
- Emission Inventories
- FESOP
- Modeling
- RACT, BACT, LAER



Reciprocating Engine Power Plant

One size does not fit all!

PSD regulations are very prescriptive. However, not every project easily fits into the process.

Different Processes require different Strategies

Whether your project uses waste water crystallizers or thermal oxidizers, reciprocating engines or gas turbines, flares or sulfur removal systems, we work through the permitting options with our clients, adapting our strategies to their needs, successfully securing the most challenging permits.

From the pre-application meetings with state and local permitting agencies, to air screening, to detailed modeling, to implementation of BACT and LAER, EIL is with you all of the way.

Attainment or Non-attainment Areas

In air quality permitting, where you have your business makes a difference, but not to us: We have tackled both challenging urban and rural projects with success.

Not every project has to be PSD

Exploring alternatives to PSD is what we do best. For example, we've incorporated sulfur treatment systems on acid gases, allowing sites to avoid PSD.

Permitting process off-gases

EIL successfully permitted a thermoxidizer combusting off-gases from a high Btu processing plant in a non-attainment area. The process removed sulfur, siloxane, volatile organics and CO₂ from an acid gas stream and combusted them in a thermoxidizer. EIL incorporated netting strategies to minimize the impact to the existing facility while maximizing facility operations.



Odor control

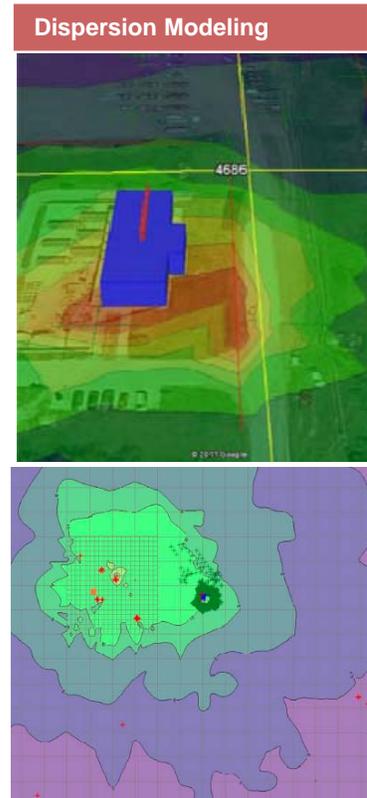
While not a criteria pollutant, EIL worked with several clients to address ammonia emissions from their processes. EIL demonstrated through modeling that ammonia emissions would not be a plant hazard for personnel and that, as a precursor to particulate 2.5 emissions, did not require control or permits to construct or operate.

Modeling for Success

Our experienced team of air quality professionals use in-depth modeling knowledge and creative modeling strategies. EIL has successfully tackled PSD permitting for reciprocating engine power plant expansions. By increasing stack heights and incorporating NO_x/NO₂ ratio model adjustments that reflect actual equipment performance, EIL was able to economically address the NO₂ 1-hour standard. The stack height increases were kept to a minimum ensuring the solution made economic sense as well as ensuring long term compliance.

Use EIL's air modeling knowledge and expertise to:

- Successfully navigate the complex array of PSD permitting obstacles.
 - Creatively address siting challenges while avoiding unnecessary permitting efforts.
 - Build long term strategies that solve today's problems without sacrificing tomorrow's opportunities.
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Emission Inventories

Operating permits require the submittal of annual emission inventories to states. Doing so requires record-keeping throughout the year which can be a daunting task for complex facilities. EIL brings a solution.



EIL developed CMD to give you command of your continuous monitoring data through a revolutionary on-line database. Upload, store, process and prepare reports for large time-dependent data sets such as those necessary for emission inventory reporting. CMD works with data from almost any monitoring instrument including Continuous Emission Monitoring Systems (CEMS), flare or boiler operations monitoring, or combustion equipment performance. CMD has been used on projects as diverse as tracking flow to document gas sales to analyzing pressure data from a network of sub-surface pressure transducers.

Whether it's emission calculations, GHG reporting, identifying missing data periods, or Startup, Shutdown, or Malfunction records, EIL's CMD can help you.

About Us

Environmental Information Logistics, LLC (EIL) is an environmental consulting, engineering, and information management firm that serves clients nationwide. Our focus is serving industrial clients and the owners and operators of landfills with high quality, economical solutions to the diverse environmental, engineering and data management challenges that they confront.

EIL's ability to provide clients with responsive solutions while understanding and respecting their business goals has enabled us to grow and prosper as a specialist service provider. We were founded in 1998 and have steadily grown to employ over 30 professionals today. EIL has offices in Glen Ellyn, Illinois (suburban Chicago), Caledonia, Michigan (near Grand Rapids), and Hood River, Oregon providing support to our clients nationwide. In addition, many of our employees work from their home offices providing us with regional coverage throughout the Midwest and Pacific Northwest.

We work with clients nationwide, from multinational companies, to municipalities, small landfill owners, PRP groups, law firms, and utilities. Our clients are spread from Hawaii to Massachusetts and from Washington to Florida. Our staff includes engineers, environmental scientists, biologists, chemists, hydrogeologists, and licensed professionals in both geology and engineering.

Contact Us

Give us a call for more information about our services

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**Clean air! We can help you
with all your air quality requirements
from permitting to compliance.**

