



# AIR QUALITY SERVICES

Permitting (Local, State and Federal)

Emission Inventory & Testing

Control Technology Assessment

Dispersion Modeling

Environmental Impacts

Health Risk & Exposure

Greenhouse Gas Management

Compliance Audits

Odor Abatement

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For a **no obligation** site review or to discuss your specific needs, contact:

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(248) 924-5253

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## ■ Why do you need SGI Environmental?

- There has been increasing scrutiny from local, state and federal agencies, along with the public, on industry emissions and impact on air quality.
- A significant amount of emissions tracking, permitting and reporting is required of each facility, which, if not completed properly, can result in costly fines.
- Understanding which permit applies, based on production at each facility, can effectively minimize pollution prevention costs, positively impacting the company's "bottom line".
- We apply process engineering techniques to maximize operating efficiencies, providing environmental compliance and cost savings to our clients.

## ■ How Can SGI Environmental help your organization?

- We will be your proponent and aggressively negotiate with the regulatory agencies for the most applicable and effective approach.
- We will provide you with interpretation of regulations pertaining to your activities including:
  - Air Permitting Feasibility
  - Operational Flexibility
  - Control Technology Assessments
  - Compliance Assurance
- We will assist you in developing value-added tools to assist in tracking throughput and annual emissions for Fee Emission Reports and Emission Inventory Summary Reports.
- We provide process engineering support in sustaining Air Quality compliance, optimizing manufacturing productivity, and controlling costs.

SGI's Air Quality Services support enables the EHS Manager to continue with their day-to-day activities while improving overall efficiency and minimizing overhead cost.

Visit our web site at:  
[www.thesourcegroup.net](http://www.thesourcegroup.net)



**THE**  
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# PROCESS ENGINEERING/ OPTIMIZATION



Feasibility Studies

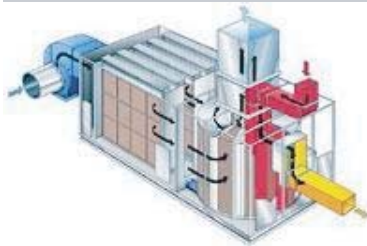
Baseline Assessments

System Engineering/  
Evaluation

Environmental  
Engineering

Filtration Management

Energy Management



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## ■ How Can SGI Environmental help your organization?

The Source Group, Inc (SGI) offers process engineering expertise to optimize existing or new paint processes for the Paints & Coatings Industry. Our group of professionals applies engineering principles to implement cost-effective solutions with a focus on improving product quality, enhancing process control/variability, conserving energy and materials, and compliance with environmental standards. Services include:

- **Feasibility Studies** - for cost effective process optimization including: product quality enhancements, process control, energy efficiency, and environmental compliance.
- **Baseline Assessments** - for air/water distribution and balance, energy usage, and process flow/control.
- **System Engineering/Evaluation and Equipment Design**
- **Environmental Engineering** - for air and water including permitting, modeling, testing, and waste minimization
- **Filtration Management** - Optimizing filtration of air and liquids, matching process requirements to filter performance, and implementing best filtration management practices.
- **Additional Services:**
  - Balance Air and Water
  - Prepare Bid Package and Reviews
  - Develop Project Budgets
  - Develop Process Flow Diagrams
  - Project Management
  - Field Engineering and Construction Management
  - System Start-up Support and Validation

## ■ Process Equipment - typical optimization opportunities:

- **Phosphate Washers** - chemical use, filtration, wastewater minimization
- **Electro-deposition** - chemical use, filtration, wastewater minimization, energy reduction
- **Paint Spray Booth** - air optimization, air re-distribution, water distribution, booth pressurization, paint transfer, filtration, energy reduction, operational flexibility
- **Miscellaneous Booths** - air recirculation/cascading, air quality, energy reduction, operational flexibility
- **Air Supply/Recirculation Houses** - energy, air quality, motor/fan efficiency, filtration
- **Spray Booth Particulate Control** - scrubber efficiency, fans/motor efficiencies, filtration
- **Wastewater Treatment** - alternative treatment, recycle and minimization
- **Clean Rooms and Building Ventilation** - air quality, energy reduction, recirculation/cascading
- **Paint Kitchens** - energy reduction and filtration
- **Bake Ovens and Coolers** - air/heat management, air distribution and balance, energy reduction, operational flexibility
- **VOC Abatement** - compliance strategies, process optimization, energy reduction



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