

ANDREW WASHINGTON
Senior Consultant

CAPABILITIES

Air Quality Permitting and Compliance
Air Quality Regulatory/Legislative Analysis
Environmental Planning/Policy Development
Emission Inventories
Health Risk Assessments

Environmental Management Systems
Expert Witness/Litigation Support
Air Pollution Control Engineering
Climate Change Reporting
Environmental Compliance Audits

EXPERIENCE SUMMARY

Mr. Washington has twenty-six years of experience in environmental compliance support. He has specialized in air quality compliance for power generation, transportation, solid waste, and manufacturing facilities. He has managed all phases of air quality permitting and compliance including Title V and PSD permitting, Title V audits, and Title V compliance evaluations and emissions calculations. He is experienced in air exposure risk assessments, New Source Review regulations, toxic hot spots reporting (AB 2588), rule compliance evaluations, and Best Available Control Technology evaluations.

Mr. Washington has evaluated and implemented emission control technologies and combustion modifications to reduce criteria pollutant emissions from boilers and internal combustion engines to comply with air district rules. Mr. Washington has established numerous environmental auditing programs and systems for various industrial clients.

Mr. Washington has provided greenhouse gas (GHG), carbon management services to several clients in the utility industry operating within the US. He is highly familiar with the requirements of varied GHG reporting protocols and programs including but not limited to The Climate Registry, the California Climate Action Registry, and the WRI GHG Protocol.

He has presented testimony in over a dozen air district variance cases and has led many Hearing Board proceedings. Each appearance has resulted in the successful granting of the petitioner's variance.

EDUCATION

Certificate in Environmental Auditing, University of California Irvine, Irvine, CA
M.S., Systems Engineering, Boston University, Boston, MA
B.S., General Engineering, Harvey Mudd College, Claremont, CA

REPRESENTATIVE PROFESSIONAL EXPERIENCE**Air Quality Management and Regulatory Analysis**

- Managed resolution of several AQMD Notices of Violation. Mr. Washington assisted the facilities to correct violations dealing with Title V Permit conditions, VOC Recordkeeping and Emissions, Annual Emissions Reporting, and other compliance issues and assisted the client in negotiations with the AQMD to settle the Violations.
- Managed Title V permitting projects for several power generation and solid waste facilities, including all applicable issues such as rule compliance, potential-to-emit versus actual emissions comparisons, monitoring and recordkeeping requirements, audits, Rule 219 exempt equipment. Mr. Washington has also filed for and received Title V exclusions for several clients based on a thorough review of their past emission reports.
- Completed permit applications for a variety of permit units at numerous facilities. Tasks included complete emissions calculations for criteria and toxic air pollutants, regulatory analysis, New Source Review, air dispersion modeling for Rule 1401 calculations, BACT requirements, source testing, emissions factor determination, and close coordination with engineering and operations personnel. All permitting projects also included tracking of all applications and coordination with SCAQMD engineering staff.
- Completed and/or supervised Annual Emissions Reports for submittal to the SCAQMD for over twenty five years for a variety of clients. AER preparation included: equipment and facility assessments; assessment of permitted and un-permitted equipment; emissions calculations; determination of appropriate emission factors; regulatory compliance issues; and close coordination with clients' facility personnel.
- Completed health risk assessment and air dispersion modeling for several manufacturing facilities. These assessments included air toxics inventory reports, exposure assessments, risk characterizations, and public notifications.
- Having created several verification-grade carbon footprints, Mr. Washington is experienced in all aspects of the process. This includes identification and definition of data needs; data management and tracking, often involving multiple years and high volumes of data; data QA including norms analyses to assure data consistency; surrogate estimation techniques for unavailable data; documentation and annotation; and Scope 1 and Scope 2 emissions calculations and roll-up. In addition, Mr. Washington has prepared reports and presentations for clients summarizing the methodologies, analyses, results, assumptions and limitations of the GHG inventories.
- Mr. Washington has been involved with the SCAQMD RECLAIM program since its inception and has handled permitting, emission reporting and reconciliation, and credit trading for several energy and manufacturing facilities.

PROFESSIONAL HISTORY

Winefield & Associates, Inc., Long Beach, CA – Senior Consultant, 2009 - Present

Shaw Environmental, Irvine, CA – Client Program Manager, 2004 to 2009

Covanta Energy, City of Industry, CA – Director, Environmental Compliance, 1997 - 2004