

DON BARKLEY, PE
Senior Consultant

CAPABILITIES

Air Quality Management	Phases I and II Site Assessments
Air Quality Regulatory Analysis	Subsurface Investigation/Remediation
Air Dispersion Modeling	Multi-media Regulatory Compliance
Health Risk Assessments for Toxics	Fugitive Emissions Monitoring

EXPERIENCE SUMMARY

Mr. Barkley has a wide variety of experience servicing clients in various industries including petroleum refineries, oil and gas production facilities, manufacturing facilities, and large mail processing and distribution centers. He has been the team leader for emission quantification/inventory projects for petroleum marketing terminals, refineries, oil and gas production facilities, and other industrial facilities. He has also managed several oil and gas production and refinery facility RECLAIM and Title V review projects as well as environmental audits. He is responsible for all RECLAIM compliance issues for an interstate oil and gas producer, including quarterly certifications, emissions calculations, electronic transmittals, and trade reconciliation. Mr. Barkley has coordinated and participated in several compliance emissions tests and managed field-monitoring activities for fugitive emissions. He has also prepared Phase I site assessments, managed Phase II groundwater monitoring projects, and co-managed a large-scale Phase II subsurface investigation for hydrocarbon and metal contamination. Mr. Barkley is also responsible for review and approval of Spill Prevention Control and Countermeasure Plans.

Mr. Barkley was the lead project engineer for several air quality audits at fifteen mail processing and distribution facilities. He performed the complete emission inventory and assisted in the permit review and compliance analysis for the air emissions audits. He has managed the preparation of the South Coast Air Quality Management District (SCAQMD) Annual Emission Reports for a variety of clients for the past seven years. He has also managed the preparation of Air Toxics Inventory Plans and Reports for several oil and gas production companies. Mr. Barkley has prepared many complete applications for permits to construct/operate for submittal to the SCAQMD. Clients who have successfully received issued permits from the SCAQMD include petroleum refineries, governmental agencies, oil and gas production facilities, and manufacturing facilities. Mr. Barkley has a close working relationship with several engineering staff members in the SCAQMD, and makes every effort to expedite permit processing to meet the clients' scheduling demands. He has also worked closely with SCAQMD and EPA engineering staff regarding emission inventories and regulatory analyses of compliance issues. Additionally, Mr. Barkley has nine years of experience as an aerospace design engineer.

Mr. Barkley has assisted in monitoring and developing compliance tools for a fugitive emission compliance program for a group of petroleum terminal facilities, focusing on emission controls of sumps, waste water separators, and other fugitive sources. Mr. Barkley also conducts air modeling, using approved EPA models, including ISCST and TSCREEN.

EXPERIENCE SUMMARY (Continued)

Since 1998, Mr. Barkley has been a professor in the Masters of Science Degree Program for the Environmental Studies Department at California State University, Fullerton. He currently teaches courses in Air Quality Management and Environmental Regulations, and has served as project advisor for graduating students.

EDUCATION

M.S., Environmental Studies, California State University, Fullerton, California
B.S., Mechanical Engineering, University of Kentucky, Lexington, Kentucky
Graduate, University of Kentucky Honors Program

REGISTRATIONS AND PROFESSIONAL ASSOCIATIONS

California Registered Professional Engineer, Mechanical Engineering
Professor, California State University, Fullerton; Environmental Studies Masters Program
Instructor, Rio Hondo College, Environmental Technology Program

SELECT PROFESSIONAL EXPERIENCE (AIR QUALITY)

Key air quality project responsibilities for Mr. Barkley have included:

Air Quality Management and Regulatory Analysis

- Managed all activities for the preparation of permit applications for over 20 permit units at a large LA Basin petroleum refinery. Tasks involved included emissions calculations, regulatory analysis, new source review, air toxics modeling, determination of emissions offsets, and close coordination with engineering and operations personnel. Tracking of all permit applications and coordination with SCAQMD engineering staff in order to expedite permit processing.
- Managed all activities for the preparation of permit applications for a variety of permit units at miscellaneous manufacturing facilities, as well as oil and gas production facilities. Tasks involved included complete emissions calculations for criteria and toxic air pollutants, regulatory analysis, new source review, air modeling, and close coordination with engineering and operations personnel. All permitting projects also include tracking of all applications and coordination with SCAQMD engineering staff.
- Managed Title V permitting project for an interstate oil and gas producer, including all applicable issues such as rule compliance, potential-to-emit versus actual emissions comparisons, and monitoring and recordkeeping requirements. Also filed for and received Title V exclusions for several clients based on a thorough review of their past emission reports.
- Managed emissions testing for several internal combustion engines, external combustion sources, and organic liquid truck loading sites. Projects included submission of test

protocols, coordination and oversight of testing activities, review of results, and compliance determinations.

- Managed Annual Emissions Reports for submittal to the SCAQMD for over six years for a variety of clients. AER preparation includes equipment and facility assessments, emissions calculations, determination of appropriate emission factors, regulatory compliance issue resolution depending on the quantities of pollutants reported, and close coordination with clients' facility personnel.
- Co-managed detailed air emissions survey and audits for all United States Postal Service's Southern California and select Northern California processing and distribution centers. Tasks included detailed equipment and product usage inventory exercises, detailed criteria and toxic pollutant emission calculations, complete regulatory analysis of applicable district, state and federal regulations, and preparation of itemized recommendations for continued air quality compliance.
- Team leader for fugitive emissions programs, including derivation of equipment component inventories, implementation of appropriate screening methods used in field monitoring, and calculation of emissions using EPA-approved correlation equations which use screening data and equipment type to determine representative emissions from each type of equipment.

Mechanical and Structural Engineering

- Assisted in preparation of successful proposal for multi-billion dollar space launch vehicle project.
- Administered Internal Research and Development product improvement / cost reduction project.
- Managed project planning and budgeting; coordinated propulsion, electrical and mechanical integration.
- Served as engineering liaison between Structures Engineering Design and manufacturing departments.
- Performed conceptual layout of space vehicle subassemblies as well as detailed part design.
- Designed environmental control subassemblies for Space Station / Space Shuttle support systems.

Professional Experience

Winefield & Associates, Inc., Senior Consultant, Long Beach, CA 2004 - Present

Omnibus Environmental Services, Senior Environmental Engineer, Huntington Beach, CA 1993 - 2003

McDonnell Douglas Aerospace, Engineer Scientist/Specialist, Huntington Beach, CA 1990 - 1993

Hamilton Standard /United Technologies Corporation, Design Engineer, Windsor Locks, CT 1988 - 1990

McDonnell Douglas Aerospace, Engineer Scientist, Huntington Beach, CA & St. Louis, MO 1985 - 1988