



BRUCE A. AMBRUSTER

EHS PRACTICE DIRECTOR

CREDENTIALS

- ◆ *B.S. Environmental Science, University of California Riverside*
- ◆ *Certified Permitting Professional, SCAQMD CPP*

PROFESSIONAL EXPERIENCE

- ◆ *2021- Present: ALL4 Environmental CA, LLC – Directing Consultant*
- ◆ *1990-2021: JE Compliance Services –Vice President*

TECHNICAL EXPERTISE

- ✓ *Air Quality/Title V Permitting and Compliance*
- ✓ *Air Emissions Inventory Reporting*
- ✓ *Air Quality Analysis and Risk Assessment for Development Projects*
- ✓ *Compliance auditing*
- ✓ *EPCRA/Toxic Release Inventory Reporting*
- ✓ *Fire/Building Code Compliance*
- ✓ *Hazardous waste management programs*
- ✓ *ISO 14000/Environmental Management Systems*
- ✓ *Process Safety Management Plans*
- ✓ *Proposition 65 Environmental Risk Assessments*
- ✓ *Risk Management Plans*
- ✓ *SPCC*
- ✓ *Stormwater compliance*
- ✓ *Tier II/Business Emergency Plans*
- ✓ *Wastewater compliance*

PROFESSIONAL OVERVIEW

Mr. Armbruster is a Directing Consultant working out of the California Office with over thirty-five years of environmental consulting experience for a wide variety of manufacturing and industrial facilities. Program and project experience includes various EHS compliance and engineering issues for clients in aerospace, asphaltic roofing materials, battery manufacturing and recycling, corrugated packaging, dietary supplements, electronics, electroplating, food and flavor, medical products manufacturing, metal parts manufacturing, paint and coating manufacturing, personal care products, printing, surface coating and utilities industries. Program areas include but are not limited to, facility development, real estate acquisition, site selection, site auditing, and technical disciplines including site assessment, CEQA, air quality, employee health & safety, hazardous waste management, risk assessment, wastewater, stormwater, fire/building code, and planning/zoning issues.

Mr. Armbruster has been a member of the leader of more than 150 site selection/facility development teams and 600 site audit teams in the past thirty-four years. Mr. Armbruster has been the team leader on projects involving the site compliance or expansion of transportation facilities, aerospace, battery manufacturing and recycling, electronics, hazardous waste treatment, metal parts manufacturing, printing, electroplating, paint manufacturing, food and flavor, asphaltic roofing materials, and medical product manufacturing facilities, and other end users of paints, solvents, and coatings.

Mr. Armbruster has been the project manager for thirty-four years for compliance and engineering issues for clients in the aerospace, battery manufacturing and recycling, hazardous waste management, metal parts manufacturing, printing, electroplating, paint manufacturing, surface coating, utilities, food and flavor, asphaltic roofing materials, and medical product manufacturing facilities, and other end users of paints, solvents, and coatings.

Mr. Armbruster has had significant involvement with Proposition 65 environmental, occupational, and consumer warning issues since 1988 including lawsuits brought by the attorney general and environmental groups.



RELEVANT PROJECT EXPERIENCE

Hazardous Waste Treatment, Storage, and Disposal Permitting for National Scrap Metal Recycling Company. Prepared and negotiated permitting for California facility including development of solid waste management programs.

Waste Management Digital Tracking System for Treatment, Storage and Disposal Facility. Developed digital tool for tracking and monitoring waste throughput and inventories for large, multi-site hazardous waste treatment facility.

Multi-media EHS Compliance Auditing for International Oil Exploration Company. Developed risk-based auditing program for internal and external international auditing program. Project included the development of auditing protocols, training, records review and inspection/ monitoring at multiple facilities.

Multi-media EHS Compliance Auditing for National Corrugated Packaging Converting Company. Developed risk-based auditing program for internal and external international auditing program. Project included the development of auditing protocols, training, records review and inspection/ monitoring at multiple facilities.

Risk Management Plan Auditing and Preparation for National Agribusiness. Developed nationwide Risk Management Plan/Process Safety Management audit and review program for large agribusiness company. Project included the development of auditing protocols, Process Hazard Analysis preparation, plan preparation, training, and on-going monitoring at multiple facilities located throughout continental United States.

Air quality permitting for decorative chromium plating facility. Prepared permit applications, completed negotiations with South Coast Air Quality Management District, and participated in public meetings to obtain air quality permits for decorative chromium plating facility located next to an elementary school in Santa Ana, California. Work included, but was not limited to, the evaluation and review of proposed air pollution control devices and associated ventilation systems, source testing, emissions calculations, emissions modeling, and compliance evaluations.

Air Toxic risk reduction plan for hexavalent chromium emissions. Developed Risk Reduction Plan pursuant to Air Toxic "Hot Spots" Information and Assessment Act and South Coast Air Quality Management District Rule 1402 for chromic acid anodizing facility in Long Beach, California. Work included, but was not limited to, the preparation of air emissions models, evaluation of hexavalent chromium emissions sources, and preparation and presentation of risk information for public meeting with South Coast Air Quality Management District.

Odor mitigation. Developed odor mitigation and control program for metal foundry in Pomona, California in response to public nuisance complaints and pending enforcement action from South Coast Air Quality Management District. Work included interaction with neighboring facilities and residents to develop and implement an outreach program to allow for real time reporting and response to potential odor concerns. Additional work completed included the development of facility response plan and mitigation activities to resolve odor issues.

Stormwater compliance for secondary aluminum smelter. Developed and evaluated potential stormwater pollution prevention Best Management Practices for secondary aluminum smelter in Fontana, California. Work included, but was not limited to, an evaluation of existing stormwater pollutant loading sources, evaluation of historical stormwater loading and trends, evaluation of stormwater discharge flow volumes, and treatment/retention capacity.

Stormwater compliance for pipe manufacturing plant. Conducted stormwater Best Management Practice development and feasibility evaluation for large scale pipe and conduit manufacturing facility in Long Beach, California. Work included, but was not limited to, an evaluation of existing stormwater pollution loading sources,



development of structural and non-structural Best Management Practices intended to reduce stormwater pollutant loading, and development of potential stormwater treatment options to be implemented at the facility to enhance compliance with stormwater discharge pollution prevention requirements.

Stormwater fate transport models for tire manufacturing operation. Developed fate and transport models for metals in stormwater for tire manufacturing operations in Long Beach, California. Work included but, was not limited to, evaluation of potential pollutant sources, meteorological data, and rainfall values for the purpose of estimating the quantity of zinc directly deposited to water bodies and deposited to the watersheds and subsequently transported to a water body via stormwater runoff.

FOOD AND BEVERAGE INDUSTRY EXPERIENCE

Mr. Armbruster's has significant experience within the food and beverage industry, working with both food manufacturing facilities and flavor and extract producers.

- *Air quality permitting and on-going compliance monitoring for large scale bakery operation in Los Angeles, California*
- *Industrial safety evaluations and agency settlement negotiations for large scale bakery operation in Los Angeles, California*
- *Toxics management program development, engineering, and permitting for essential oil facility, Corona, California*
- *Compliance auditing for pizza dough manufacturer, Ontario, California.*
- *Multi-media environmental and health and safety management services with on-site components for food manufacturing operation with facilities located throughout the United States.*
- *Permitting and compliance auditing for coffee roasting facility, San Diego California*
- *Permitting, reporting and compliance monitoring for international jam and confectionery manufacturer, Gardena, California*
- *Permitting, reporting and compliance monitoring for dairy products manufacturing facility, Los Angeles, California.*
- *Air, wastewater, hazardous materials, waste and stormwater permitting, reporting and compliance monitoring for dairy products manufacturing facility, City of Industry, California.*
- *Air, wastewater, hazardous materials, waste and stormwater permitting, reporting and compliance monitoring for dairy products manufacturing facility, Los Angeles, California.*
- *Air, wastewater, hazardous materials, waste and stormwater permitting, reporting and compliance monitoring for soup manufacturing facility, Stockton, California.*
- *Air, wastewater, hazardous materials, waste and stormwater permitting, reporting and compliance monitoring for multi-location food products manufacturing facility, Vernon, California.*
- *Risk Management Plan development and auditing for multi-location food products manufacturing facility, Vernon, California*

BATTERY INDUSTRY EXPERIENCE

Mr. Armbruster's has significant experience within the battery industry working with both battery manufacturers and recyclers.

- *Air quality permitting for battery manufacturing facility in Redlands, California*
- *Toxics management program development, engineering, and permitting for battery recycler, Anaheim, California*



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- *Compliance auditing for battery recycler, Wednesbury, UK*
- *Battery safety and handling training and packaging in Macae, Brazil*
- *Development of battery storage containers, Bretagne, France*
- *Multi-media environmental and health and safety management services with on-site components for battery manufacturing facility in Redlands, California*
- *Permitting and compliance auditing for battery manufacturing facility in Stonehouse, UK*
- *Compliance auditing for battery recycler in Fujimi Kitami, Japan*
- *Safety review for battery storage facility in Nagaoka Kanefusa, Japan*
- *Permitting, reporting and compliance monitoring for battery recycling plant, Lancaster, Ohio*
- *Permitting, reporting and compliance monitoring for battery recycling plant, Trail, British Columbia*
- *Compliance auditing for battery manufacturer, Quincy, Massachusetts*
- *Multi-media environmental and health and safety management services for battery recycling facility in Anaheim, California*
- *Development of battery handling, packaging, management, and shipping procedures for multiple battery handling operations throughout United States*
- *Battery import/export permitting*
- *Black mass processing plant environmental permitting*
- *Battery packaging and safety training at various international locations*

PUBLICATIONS/ PRESENTATIONS

- *Environmental Compliance 101: A Comprehensive Introduction to Environmental, Health & Safety Requirements and Compliance Strategies, May 2019 and December 2018*
California Craft Brewers Association
- *Environmental Compliance-Building a Culture*
Manufacturers' Council of the Inland Empire Summit, February 2014
- *Understanding and Evaluating Behaviors of Non-Gaseous Substances, January 2009*
California CUPA Conference, Garden Grove, California
- *Working with Hazardous Materials, January 2009*
Steel Tube Institute of North America, Long Beach, California
- *Environmental Permitting Issues for Distributed Power Generation Projects, June 2001*
GE Distributed Power, Houston, Texas
- *Environmental Compliance Issues, Air Quality and Hazardous Waste Management, May 2004*
California Ski Industry Association, Mammoth Lake, California