Eric A. Sussman, PE

Air Quality Engineer

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Mr. Sussman joined Sonoma Technology's Atmospheric and Emissions Modeling Group in 2021, where he facilitates modeling, litigation support, and transportation projects. He combines his strong background in chemical engineering principals with practical experience to quantify emissions from transportation, power generation, and chemical manufacturing activities. He is experienced in using chemical process simulation software, such as CHEMCAD, to quantify emissions when generalized empirical emission factors are insufficient. Mr. Sussman's current work involves modeling the emissions of transportation and industrial processes. He uses the U.S. Environmental Protection Agency (EPA)'s MOtor Vehicle Emission Simulator (MOVES) and the California Air Resources Board's EMission FACtor (EMFAC) models to estimate historical and future emissions from on-road mobile sources in support of litigation projects, hot-spot analyses, and the developing emission modeling tools, such as the Caltrans-EMission FACtor Model (CT-EMFAC). Mr. Sussman is actively involved in projects that use established EPA emissions factors to calculate industrial facility air emissions.

Education

- MS, Environmental Engineering, University of California, Berkeley
- BS, Chemical Engineering, Washington University in St. Louis

Licenses

California Professional Engineer, License Number CH 6959 (Chemical)

Memberships

American Institute of Chemical Engineers

For a list of publications, see sonomatech.com/ResPub/EASpub.pdf.

Mr. Sussman is also a proficient computer programmer and is fluent in Python and R. He has experience in air quality dispersion modeling and technical report writing. Mr. Sussman is proficient in AERMOD and AERSCREEN, and uses his familiarity with Geographic Information Systems (GIS) to assist in his work.

Before joining Sonoma Technology, Mr. Sussman worked as a Senior Consultant at Ramboll, where he assisted clients in various industries with Clean Air Act-related matters, and provided expert services to legal clients in environmental litigation cases. His clientele included chemical, ink, and paint manufacturing clients, as well as pharmaceutical, power generation, data center, and glass manufacturing industries. Mr. Sussman developed emission inventories, prepared state and federal air quality permit applications, and supported clients with compliance matters such as toxic release inventory reporting. Mr. Sussman also spent a substantial amount of time as an onsite contractor at the Government Printing Office in Washington, DC, conducting manufacturing facility site visits and installing ambient air quality and corrosion monitors.

Major projects for which Mr. Sussman provided technical support from 2019 to 2020 include an emission quantification project for an ink manufacturer in New Jersey; an annual emissions inventory submittal for glass manufacturing and data center clients across the U.S.; a personal injury case regarding emissions and modeling of air contaminants from a landfill in New York; a permit issuance challenge regarding flare emissions of a natural gas processing facility in Washington; a personal injury case regarding air emissions from a coal-fired power plant in Florida; a property damage case regarding the air and groundwater emissions of chlorinated solvents from a manufacturing facility in Mississippi; and a CERCLA/RCRA cost-recovery case associated with determining petrochemical fate from historical industrial process and remediation involving an Oklahoma oil refinery.