

## Résumé of Bruce A Olson

**Education:** A.B. & B.S. Chemical Engineering, Rutgers University, 1968  
M.S., Chemical Engineering, Rutgers University, 1973  
MBA, Management, Virginia Polytechnic Institute and State University,  
2003

**License:** Registered Professional Engineer (VA No. 022275)

**Experience: U.S. Nuclear Regulatory Commission**

2009-Present

Project Manager in NRC's Office of New Reactors, Division of New Reactor Licensing. Oversee the staff and contractor team on the environmental review of the Fermi 3 combined license application. Responsible for preparing and publishing environmental impact statement (EIS), conducting public meetings, and interacting with federal, state, local agencies, applicant, and members of the public. Assembled and coordinated the team to analyze and evaluate a broad range of environmental issues that included sociological, cultural resource, ecological impacts, need for power, and alternatives for the draft and final EIS.

2007-2009

Project Manager for oversight of staff and contractor teams on the environmental review of the combined license applications for Callaway 2 in Missouri and Nine Mile Point 3 in New York. Oversaw public outreach, scoping, and public information, site audit, and team meetings to develop environmental impact analysis information on the proposed new nuclear power plant projects. Provided environmental project support for the proposed new Shearon Harris nuclear power plant in North Carolina.

**Science Applications International Corporation (SAIC) 1991-2007**

2000-2007

Lead Engineer for environmental permitting/compliance for equipment and emergency response to protect US military bases from Chemical, Biological, Radiological, or Nuclear (CBRN) attack. Responsible for technical support and management of environmental, monitoring, processing, and technical project tasks for the Defense and Homeland Solutions Operation that supports the U.S. Army Chemical Materials Agency's (CMA's) mission to destroy the nation's stockpile of chemical warfare agent materials.

1991-2000

Managed tasks to develop, evaluate, and perform demonstration testing of operating equipment and pollution control systems. Performed

meteorological, ambient and process stack gas air monitoring tasks and modeling analyses for CAA and RCRA compliance and to meet health and safety standards for worker exposure. Assisted in implementation of Environmental Management Systems under the ISO 14001 standard. Responsible for preparation, submission, and technical support (including interaction with state and federal regulators) of environmental permits governed by the CAA, RCRA, NEPA, CERCLA, TSCA, and water regulations to state agencies in AL, AR, CO, IN, KY, MD, OR, UT, and WA. Managed project teams ranging from two to six professionals to complete tasks, permit applications, and various reports to satisfy technical performance requirements and environmental regulations.

**Pacific Environmental Services (PES) Inc., 1989-1991**

Senior Engineer responsible for managing a contract with the Council of Great Lakes Governors (funded by DOE) for Combustion of Densified Refuse-Derived Fuel (d-RDF) in a Small Power Boiler. Performed a regulatory review, risk assessment, presented results to an energy association conference, evaluating the pollution control system and recommended addition of a fabric filter system for pollution control. Managed several Volatile Organic Compound (VOC) permit applications in the printing and coating, petrochemical, pharmaceutical, specialty chemical, and metal (aluminum) processing industries. Projects included monitoring stack gas concentrations, long term ambient monitoring, development of air pollution control strategies, best available control technology analysis, specification of equipment, and preparation of necessary permitting documents for modified or new facilities in AL, NJ, NY, MD, VA, and DC. Assisted EPA in drafting regulations for VOC compliance and of naturally-occurring asbestos.

**Engelhard Corporation, 1975-1988**

Senior Research Engineer in development of catalysts and catalyst process technologies for improved product yield, energy efficiency, and environmental pollution control for industrial processes. Carried out theoretical and experimental studies on hydrogen fuel cell systems up to 50KW in size and associated natural gas and methanol reforming systems (under a DOE contract), Methyl-tert-butyl ether (MTBE) synthesis, selective hydrogenation and isomerization of hydrocarbons, selective oxidation of CO in ammonia synthesis gas, and for low-NO<sub>x</sub>, high efficiency catalytic combustion of fossil fuels. Performed experimental studies using small-scale pilot plant equipment hardware, intermediate-sized power generation systems, and full-scale plant trials. Evaluated alternative processes for chemical recovery of platinum from spent auto catalysts.

**Merck & Company, 1973-1975**

Technical Services Engineer in pharmaceutical manufacturing, participating in plant expansion work including commissioning, startup, and operation of process equipment, packed bed and stirred tank reactors, extraction and distillation columns, rotary drum filter systems, process controllers, and analytical equipment in the factory. Supervised the manufacture, loading, and startup operation of a high quality process catalyst used in synthesis of a key product intermediate.

**Picatinny Arsenal, 1968-1971**

Process Engineer conducting studies to minimize air and water pollution impact of defense plant operations and supervised monitoring of air and water pollution sources, including a waste propellant incinerator at the Arsenal, holding a secret clearance. US Army service in Vietnam with the Military Police, 1969-1971.

**Publications:** Seven Technical Publications  
1 U.S. Patent 5,281,753- for Selective Hydrogenation Process.  
MBA Study Abroad Paper on Air Pollution Control in Hong Kong, China for AWMA Poster Session, 2003.