

Philip L. Young

Rad/Non-Rad Health/ Accidents

TECHNICAL QUALIFICATIONS

Certified Health Physicist, American Board of Health Physics, 1995 (Recertification in 2007)

EXPERIENCE SUMMARY

1989 Present Project Manager/Health Physicist,
Tetra Tech NUS

EDUCATION

M.S., Health Physics, Georgia Institute of Technology, 1989

B.S., Radiation Health (Health Physics), Oregon State University, 1988

STRENGTHS AND REASONS FOR SELECTION

Mr. Young has more than 17 years of experience assessing environmental impacts of nuclear facilities, managing the preparation of National Environmental Policy Act (NEPA) documents, and performing radiological human health and ecological risk assessments. He has been directly involved in the preparation of Environmental Reports for license renewal at 18 nuclear power plants, including the first PWR (Calvert Cliffs) and the first BWR (Plant Hatch) to submit license renewal applications

DETAILED CONTRIBUTIONS ON RELEVANT PROJECTS

- Mr. Young has 17 total years of professional experience in environmental radiological programs and nuclear engineering for government and utility clients. He is a Health Physicist specializing in environmental health physics. He serves as project manager and as technical lead for environmental impact statements (EISs) and other NEPA documents for major nuclear facilities. He prepares human health and ecological risk assessments to assess the radiological impacts of nuclear facility operations on members of the public and native animal organisms, including performing fate and transport modeling. He performs analysis of the radiological and chemical impacts of postulated accident scenarios at U.S. Department of Energy (DOE) and commercial nuclear facilities. He provides radiological training to EPA and other state, federal, and local agencies.
- Mr. Young served as the Human Health and Safety Technical Lead for the preparation of an Early Site Permit application for the Vogtle plant. Mr. Young prepared sections of this application that addressed the radioactive waste management system, radiation exposure to workers

(construction and operations), radiation exposure to members of the public and non-human organisms, and radiological monitoring.

- Mr. Young supported the preparation the Severe Accident Mitigation Alternatives (SAMA) section of the License Renewal Environmental Report for several nuclear power plants, including the first plant to obtain license renewal (the Calvert Cliffs Nuclear Power Plant). In preparing these sections, Mr. Young was responsible for establishing and defining the base case, which provided an indication of the plant's severe accident risk before the implementation of any SAMAs, as well as evaluating each SAMA to determine if it would be beneficial. This conclusion was determined by calculating the "net value" added by that SAMA. Mr. Young also prepared the SAMA section for the following plants: Farley, Hatch, North Anna, Summer, Surry, and Turkey Point,
- Mr. Young served as project manager for the Savannah River Site High-Level Waste Tank Closure Environmental Impact Statement (DOE/EIS-0303). The proposed DOE action described in this EIS is to permanently close the high-level waste tanks at the Savannah River Site. Under each alternative except no action DOE would close 49 high-level waste tanks and associated waste handling equipment including evaporators, pumps, diversion boxes, and transfer lines.
- Mr. Young served as the Radiological Health, Safety, and Accident Manager for the Modern Pit Facility (MPF) Environmental Impact Statement (EIS). This EIS evaluates the environmental impacts associated with constructing a new MPF at five alternative sites: Los Alamos National Laboratory, Nevada Test Site, Pantex Plant near Amarillo, TX, Savannah River Site, and the Waste Isolation Pilot Plant. Mr. Young was responsible for the preparation of the following sections of this EIS: Air Quality and Noise, Human Health and Safety (radiological and chemical impacts), Facility Accidents (radiological and chemical impacts), Traffic and Transportation; and Waste Management.
- Mr. Young served as project manager for the Savannah River Site Spent Nuclear Fuel Management Environmental Impact Statement (DOE/EIS-0279). The purpose of the proposed DOE action described in this EIS is to identify and implement actions for the safe and efficient management of spent nuclear fuel assigned to the Savannah River Site, including placing these materials in forms suitable for ultimate disposal.

