Hosung Ahn
Statement of Professional Qualifications

CURRENT POSITION

Hydrologist
Hydrologic Engineering Branch
Division of Site and Environmental Reviews
Office of New Reactors
U.S. Nuclear Regulatory Commission
Washington, D.C

EDUCATION

Ph.D., Hydrology, Colorado State University
M.S., Hydrology, Colorado State University
B.S., Civil Engineering, Hanyang University, Korea

PROFESSIONAL

American Geophysical Union, Member
American Water Resource Association, Member
Professional Engineer, registered in Florida
Reactor Technical Reviewer Qualification, NRC, 2008

QUALIFICATIONS

Dr. Ahn is a hydrologist with over 24 years of work experience at various federal and state governments. He has been working on the areas of water resources managements, ecosystem restorations, power plant siting, and reactor licensing. He received a bachelor degree in Civil Engineering from Hangyang University in Korea, and Master's and Doctoral degrees from Colorado State University specializing in hydrology and water resources. His expert areas include hydrology, hydrogeology, hydraulics, statistical hydrology, numerical hydrologic modeling, and risk, safety, and uncertainty analyses.

Now as a hydrologist for the Nuclear Regulatory Commission, he is responsible for reviewing new reactor license applications, especially the plant site safety analyses from extreme hydrologic hazards, such as flood, drought, dam break, tsunami, and subsurface radionuclide contamination. He has been working on three ESP applications (Clinton, North Anna, Vogtle) and 6 COL applications (South Texas, Nine Mile Point, V.C. Summer, Calvert Cliffs, Turkey Point). He is responsible for performing evaluations of hydrology-related issues in support of new reactor licensing, updating and improving reactor licensing regulatory rules and technical guides and criteria, and managing technical assistance contracts, and developing research plans and user need requests.

Prior to his current position, Dr. Ahn was assigned (2003~2006) to the National Park Service Miami Office which provides technical services for the restoration of the Everglades ecosystem. As a Research Hydrologist, Dr. Ahn performed modeling and assessment of the Everglades hydrology in support of many critical water management and ecosystem restoration projects. His responsibilities at the Park included formulating and evaluating restoration plan alternatives, assessing the impacts and benefits of water management and ecosystem restoration projects, defending the Park's positions against other federal and state agencies' agendas, and writing NEPA and EIS reports for these projects.

From 1990 to 2003, Dr. Ahn worked for the South Florida Water Management District, where he served as a technical leader for various water management and ecosystem restoration projects. Major responsibilities included developing, planning, and conducting research and assessment projects, as well as developing and applying regional hydrologic models. He acted as a technical representative for the agency on various Everglades restoration committees and teams that consisted of staff from federal and local government agencies such as USGS, USFWS, USCOE, EPA, etc.

Prior to his graduate study, Dr. Ahn worked for the Korea Electric Power Company in Korea, where he worked as a Civil Engineer. For the first two years Dr. Ahn served as a Construction Inspector at the Yongwol Gas-Turbine Power Plant Construction Office, responsible for inspecting and cost estimating of power plant facility constructions including retaining walls, dam and intake, piping systems, roads, and out-door fire protection system; and then for the remaining four years as a Civil Engineer at the Headquarter in Seoul, responsible for evaluating technical and economic feasibilities of new power plant sites which include 2 thermal plant sites, 3 nuclear sites, and 8 hydroelectric power plant sites.

Dr. Ahn has written over 45 technical reports, published 15 papers in high-rated, peer-reviewed journals mostly as a senior author, and made over 20 presentations to professional conferences and workshops.