



Nuclear Regulatory Commission
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Admitted: 03/25/2009
Rejected:

Withdrawn:
Stricken:

NRC000084

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NRO/DSER/RGS2

EXPERIENCE

SENIOR GEOTECHNICAL ENGINEER, U.S. Nuclear Regulatory Commission, Office of New Reactors, Division of Site and Environmental Review (11/06-present)

Duties include reviewing site suitability and stability of subsurface materials and foundations for new nuclear power plant applications that include Early Site Permit (ESP) and Combined Operating License (COL) applications, as well as reviewing site parameter requirements for new reactor designs certifications. Current assignments include:

- Acceptance review of geotechnical engineering related sections of ESP and COL applications.
- Detailed technical review and safety evaluation of ESP and COL applications in area of geotechnical engineering, including geotechnical site exploration, characterization of site parameters - both static and dynamic properties, evaluation of static and dynamic subgrade response, static and dynamic slope stability, seismic response analysis, evaluation of soil-structure interaction system, subsurface layer bearing capacity, structure and foundation settlement, and active and passive pressure on structures and foundations.
- Performing review of seismic design in the area soil-structure interaction and developing safety evaluations.
- Detailed technical review of new reactor design certificate to evaluate design site parameters.
- Performing confirmatory analyses related to foundation and slope stabilities.
- Evaluating industry guidance for geotechnical engineering related generic issues, such as backfill material requirement and related ITAAC.

STRUCTURAL ENGINEER, U.S. Nuclear Regulatory Commission, Office of Nuclear Reactor Regulation, Division of Engineering, (9/06-11/06)

Duties include reviewing seismic design parameters and seismic system analyses associated with applications for existing reactor license renewals and new reactor designs certifications. Assignments included:

- Performing review of seismic design in the area soil-structure interaction and developing safety evaluations.
- Performing review of structural design in the area of foundation stability.
- Performing review of structural design and safety evaluation for nuclear power plant structures and components, such as spent fuel rack and strainer.

SENIOR CIVIL ENGINEER, Federal Highway Research Center, Federal Highway Administration, McLean, VA (9/92-9/06)

Served as a technical expert, through contracting firms, to provide consulting services and technical support to Federal Highway Research Center, the Federal Highway Administration in area of highway pavement and foundation performance evaluations. The main duty involved conducting studies and tests related to highway pavement design, foundation design and stability analysis, soil structure interaction analysis, and structural and seismic analysis. The tasks performed included:

- Geotechnical site exploration, soil properties determination.
- Highway foundation and pavement designs, highway performance analysis and prediction.
- Foundation bearing capacity analysis, settlement analysis, and stability evaluation under both static and dynamic loads.
- Vehicle and pavement/soil foundation interaction analysis.
- Seismic response analysis of highway structures

EDUCATION/LICENSURE

Virginia Professional Engineer (1999).

Ph.D Geotechnical Engineering, Michigan State University (1992)

MS Structural Engineering, Michigan State University (1988)

BS Electrical Engineering, Wuhan University, China (1982).