

Omar R. López-Santiago

EDUCATION: University of Maryland - Master of Engineering in Fire Protection Engineering
GPA: 4.0/4.0

University of Puerto Rico - Bachelor of Science in Chemical Engineering
GPA Overall: 3.2/4.0 GPA Major: 3.4/4.0

WORK EXPERIENCE:

January 2014 – Present

**Chief (Acting), Engineering Branch 3
Division of Reactor Safety (NRC), Atlanta, GA**

- Manage and supervise the implementation of the operating reactor inspection program for in-service inspections and welding technology, the ASME Code, steam generator inspection and repair, major modifications, independent spent fuel pool installations, heat sink performance, and license renewal inspections.
- Supervise implementation of the reactor oversight program, including enforcement activities, and supervise the ongoing technical review/analysis of operating experience, allegations, and emergency response activities as assigned.

December 2012 – December 2013

Sr. Reactor Inspector (NRC), Atlanta, GA

- Lead inspection teams, and conduct routine, special, and reactive inspections, at Commercial Nuclear Power Plants in the area of fire protection, and Cyber Security
- Assess the safety and regulatory compliance of licensed activities and apply enforcement policy to identify appropriate enforcement action, brief management on proposed enforcement action, and prepares routine and escalated enforcement documents.
- Respond to emergency conditions that may occur while on site at a licensee facility or as assigned in response to a licensee notification of an incident; provide on-site assessment of plant conditions, licensee response to incident conditions and change in conditions to support NRC assessment and response to the incident; and brief NRC senior management on incident and provides results of assessments of the safety and health implications of incident conditions.

December 2010 – December 2012

Sr. Fuel Facility Inspector (NRC), Atlanta, GA

- Team Leader for Temporary Instruction 2600/015, "Evaluation of Licensee Strategies for the Prevention and/or Mitigation of Emergencies at Fuel Facilities." (Post-Fukushima inspections at Fuel Cycle facilities)
- Lead inspection teams, and conduct routine, special, and reactive inspections, at fuel cycle facilities during construction, start-up and operational phases in areas such as quality assurance, plant operations, chemical safety, criticality safety, fire protection, radiation protection, environmental protection, waste management, transportation, maintenance and surveillance, training, emergency preparedness, permanent plant modifications and management organization and controls.
- Assess the safety and regulatory compliance of licensed activities and apply enforcement policy to identify appropriate enforcement action, brief management on proposed enforcement action, and prepares routine and escalated enforcement documents.

July 2001 – December 2010 Fuel Facility Inspector (NRC), Atlanta, GA

- Perform numerous inspections at nuclear fuel cycle facilities such as: Fire Safety, Operational Safety, Chemical Safety, Maintenance and Surveillance, Operator Training, Waste Management, Transportation of Radioactive Materials, Environmental Protection and Management Controls.
 - Verification of adequacy and implementation of fire hazard, nuclear criticality safety, and process hazard analyses.
 - Verification of facility operations to ensure they are within the boundaries of identified accident sequences and that high consequence events are highly unlikely.
 - Review of facility operations to determine if it's operated safely and in accordance with regulations, integrated safety analysis, and facility policies and procedures.
 - Assessment of problem identification and resolutions programs.
 - Assessment of quality assurance and management of change programs.
 - Assessment of root-cause analysis and corrective actions.

April - July, 2008 B&W Sr. Resident Inspector (Acting), Lynchburg, VA

- Inspection of maintenance, surveillance, engineering, and other safety/safeguard activities to verify compliance with regulatory requirements.
- Respond and investigate multiple operational upsets, including an HF spill that resulted in a significant exposure to HF.

TRAINING:

- Reactor Full Series (PWR)
- Basic Reactor Operations (BWR)
- Fire Protection for Nuclear Power Plants
- Power Plant Engineering
- Westinghouse Systems Overview
- Human Reliability Analysis
- Probabilistic Risk Assessment
- Negotiating Techniques
- Layer of Protection Analysis
- Hazard and Accident Analysis
- Chemical Safety for Nuclear Fuel Cycle Facilities
- Fire Protection for Nuclear Fuel Cycle Facilities
- Nuclear Criticality Safety for Nuclear Fuel Cycle Facilities
- Health Physics for Nuclear Fuel Cycle Facilities
- OSHA Hazwoper
- Criticality Safety Double Contingency Workshop
- Nuclear Criticality Safety Workshop
- Overhead Crane/Hoist
- Transportation of Radioactive Materials
- Media Training and Gathering Information through Interviews
- Root Cause/Incident Investigation Workshop
- Introduction to Risk Assessment
- Nuclear Reactor Concepts
- Uranium Enrichment Processes
- NFPA 72, NFPA 13, NFPA 25, and NFPA 20
- SFPE Sprinkler Design for Engineers