

Jennifer L Martin - Master Electrician; CESC Electrical SME/AHJ

SUMMARY:

Jennifer Martin has been newly appointed as the Authority Having Jurisdiction (AHJ) and Lead Electrical Safety Engineer within the Worker Safety & Health organization at Pacific Northwest National Laboratory (PNNL). Her background begins as a Local #112 IBEW Master Electrician, and Certified Electrical Safety Compliance Professional (CESCP) with over 25 years' project management and construction experience. Ms. Martin has thirteen years' experience in safe performance and direction of projects located within the operating boundaries of nuclear facilities. She has worked closely with all DOE Complex Laboratories in establishing best practices, policies, and procedures to ensure electrical safety remains a priority for DOE contractors and sub-tiers within. She currently serves as the EFCOG Electrical Safety Task Group Chair and is recognized within the DOE community as a technical subject matter expert who understands how to leverage the experience and knowledge of her peers when faced with unique challenges. Her in-depth knowledge of Electrical Codes and Standards in addition to the physical characteristics and operational requirements of these facilities lend her the skills necessary to be successful. These skills and diverse industry experiences make Ms. Martin uniquely qualified to safely and effectively manage the complex nature, roles and responsibilities assigned to an Authority Having Jurisdiction (AHJ). Her ability to effectively communicate the requirements of Codes and Standards from a field perspective adds to her ability to connect with DOE representatives, engineers, electricians, and their supervisors.

CERTIFICATIONS:

Licensed Master Electrician in Colorado ME.3000303, Washington ME01-MARTIJL873KO, and Texas #445048

New Mexico EE98 Journeyman Electrician #398438

Washington State Electrical Administrator

Certified Electrical Safety Compliance Professional (CESCP) #CESCP-17-254

Texas Electrical Contractors License

New Mexico Electrical Contractors Qualifying Party

Tennessee CE Contractors License

Licensed to provide Electrical CEUs in Idaho, Washington, Colorado and Oregon

NQA-1 Electrical QC Inspector

EXPERIENCE:

Pacific Northwest National Laboratory (PNNL)

Electrical Safety Engineer/SME

October 2020 – present

- Electrical Authority Having Jurisdiction (AHJ) Assigned and approve by DOE Office of Science
- Technical Subject Matter Expert (SME) for electrical safety
- Responsible to provide strategic and technical leadership in the electrical safety program. Remain cognizant of current and future regulatory requirements applicable to research and laboratory operations.
- Monitor potential hazards and assists in developing and implementing control strategies.

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Jennifer L Martin - Master Electrician; CESP; Electrical SME/AHJ

- Periodic review of health and safety standards in accordance with DOE, OSHA, State regulations and contractual requirements. Ensure that quality control procedures are implemented according to applicable regulations.
- Share professional concepts and organizational objectives to resolve complex issues in creative and effective ways.
- Provide leadership within the PNNL community; Build relationships and leverage networks across DOE Complex and within Directorate and PNNL.
- Outline strategies for specific goals and objectives. Work on unusually complex technical problems and provides solutions which are highly innovative.
- Monitor procurement for NRTL compliance; Routine inspections;
- Inspect one of a kind custom built laboratory equipment.
- Maintain inspection records including corrections and violations during project progression.
- Recognized as a Technical Authority; Maintain professional knowledge of existing and proposed changes in applicable industry standards, health and safety regulations.
- Manage projects involving diverse tasks, teams, and organizations.
- Develop and implement programs, policies and procedures for hazard evaluation and monitoring to prevent or minimize staff exposures.
- Conduct mentoring and training activities for PNNL technical staff. Fostering collaboration and growth in the skills of others.

Federal Engineers and Contractors (FE&C)

Electrical Division Manager/Supervisor/Master Electrician/IBEW LU#112

April 2011 – 2020

- Responsible for ensuring field personnel adhere to Hanford's strict NQA-1 policies and procedures, through applying and enforcing contractual flow down requirements, in accordance with 10 CFR 851, work plans, and other implementing State and Federal regulations.
- Periodically review the organization's health and safety standards in accordance with DOE, OSHA, state regulations and contractual requirements.
- Ensure that quality control procedures are implemented according to applicable regulations.
- Develop and implement programs, policies and procedures for hazard evaluation and monitoring to prevent or minimize worker exposures.
- Serve as a technical subject matter expert for Electrical Safety.
- Monitor potential hazards and assists in developing and implementing control strategies.
- Providing electrical project management oversight for all potential and ongoing electrical work.
- Planning and scheduling of field activities for electrical and mechanical activities, including the procurement of all necessary equipment.
- Effective and efficient utilization of resources (labor and equipment), proposal preparation, project planning and coordination of contract work with the management team. Direct project activities.

Project Experience at Hanford 2007-2010

- PNNL Electrical Upgrades
- Plutonium Finishing Plant
- Fast Flux Test Facility
- Effluent Treatment Facility

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- 200E Tank Farms, AN, AY, AZ, AW, AP, B, BX, BY, C, SY Farms
- 222S Labs multiple electrical & fire alarm upgrade packages
- 100K East and West, K West Annex Sludge Treatment Facility
- 100N, 100D, DX, 100H and HX
- 3A Burial Grounds

IBEW LU #112 Project Experience – Washington State Commercial 2004-2010

- Kennewick General Hospital Medical Mall G.I. Center
- Medical Gas Monitoring Installation
- Dental Offices
- ConAgra/Lamb Weston Processing Plants
- Agricultural Facilities

Sunset Electric/Lewis Electric Business Name Change - Project Experience Nationwide–
Residential/Commercial 1993-2004

- 23 Assisted Living Facilities across the US
- Multifamily Dwelling Unit Complexes across the US
- Fire Alarm
- Nurse Call
- Emergency Standby and Alternate Power Source Systems

Mission Support Alliance (MSA)

Worker/Trainer Volpentest HAMMER Training Facility

August 2011 – 2020

- Hazardous Energy Control and Electrical Safety Training Lead, ensuring each student feels confident and satisfied with their performance before leaving the classroom.
- Works within the Secure Washington and CE Broker database to enter licensee's credits when course material is complete.
- Working with Labor and Industries requires strict adherence to the responsibilities assigned. Providing prompt and accurate information to ensure licensed individuals are kept up to date on their required Continuing Education Units (CEU's).
- Continuing education and capabilities as a Master Electrician on a National level; with a vast understanding of the current changes of codes and standards to better communicate the context as they relate in the field.
- Acting as a Vice Chair to the EFCOG group sponsored by DOE. Directly impacts code and regulatory changes that effect all electrical work across the DOE complex and other industries.
- Instrumental development of new course material using the ADDIE and SAT processes. An ability to relate to her students and deliver material in a manner that provides a higher level of awareness, understanding, and a strong respect for the electrical safety program and the level of craftsmanship that has become a standard in the industry.
- Active participant on all Electrical Boards (Code and Safety) as well as a voting member on HSESP DOE-0359 and DOE-0336 Lockout tagout committees.

ElecTrain, LLC

Instructor/Consultant

January 2018 – Present

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- General Industry, Utilities, Government Agencies and Contractors
- Electrical Safety Program Consultation & Program Development
- Determination of training requirements of the organization and development of training schedules to accomplish those needs.
- Provide NFPA 70E, NFPA 70 (NEC), RCW/WAC 296-45 Electric Power Generation, Transmission and Distribution Safety, Battery Electrical Storage System (BESS) Safety, and Basic Electrical Safety Training.

TRAINING:

- Lockout/Tagout Controlling Organization Administrator/Qualified Worker/Authorized Worker
- IEEE 101-102 Intro to SKM Power*Tools
- Basic First AID/CPR/AED Training
- Heat Stress Prevention and First AID
- Confined Space Entry
- Fall Hazard Recognition and Prevention
- Fall Protection PFAS User Training
- Respiratory Knowledge-Based Training
- Respiratory User Training/Mask Fit
- 24-Hour Hazardous Waste
- 8-Hour Hazardous Waste Refresher
- Lead (Pb) Worker
- Hearing Conservation
- Beryllium Worker
- On-The-Job Trainer Fundamentals
- On-The-Job Evaluator Fundamentals
- Technical Subject Matter Expert (SME) Instructor
- Risk Communication Techniques
- Safety Basis Training
- Records Management
- Waste Handling, Segregation, and Packaging
- DC Energy Systems & Equipment Safety Training

*Comprehensive training list provided upon request

- Radiological Worker II

PROFICIENCIES:

- Attentive experienced Instructor with the knowledge and passion for learning as well as teaching.
- Technical Subject Matter Expert for OSHA General Industry (29 CFR 1910), OSHA Construction (29 CFR 1926), RCW/WAC, and NFPA Electrical Standards.
- Experience in development and implementation of programs, policies and procedures related to electrical safety according to DOE requirements and consensus standards such as NFPA 70 and 70E.
- Exceptional knowledge of the electrical code changes and any regulatory change prospective and ability to solidified both.
- Experience in leadership at a company level and committee participation at a regional level.
- Ability to implement Electrical Safety standards including NFPA 70 and 70E in accordance with the Department of Energy requirements.
- Knowledge and experience with electrical safety aspects of DC power systems.
- Experience in design and installation of building power distribution systems.
- Perform and review of power system studies, including arc flash.
- Analyze the potential electrical safety hazards for construction projects, prepare, and implement remedial measures.
- Ability to evaluate complex technical problems and provide solutions.

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- Procedure and fieldwork management assessor adhering to procedural compliance and process implementation.
- Conducted oversight and monitoring in compliance with State and Federal Health and Safety Regulations.
- Execute compliance obligations utilizing core functions and elements of the Integrated Safety Management System/Environmental Management System (ISMS/EMS).
- Proven ability to function in a team environment. Assist other team members in accomplishing their roles and responsibilities while maintaining safety and health compliance.
- Advises management on recommendations and corrective actions on applicable safety criteria.

ACHIEVEMENTS:

Martin, J. (2016). *Guide to Incorporating Risk Assessment into Integrated Safety Management for Electrical Safety*. EFCOG Best Practice.

Martin, J. (2017). *Integrated Safety Management (ISM) & Risk Assessment a Complimentary Pairing*. IEEE ESW2017-35.

Martin, J. (2017). *Risk Assessment / Operation of Overcurrent Protection Devices*. EFCOG Best Practice.

Martin, J. (2018). *Assigning National Electrical Code (NFPA 70) and Electrical Safety in the Workplace (NFPA 70E) Authority Having Jurisdiction (AHJ) Responsibilities*. EFCOG Best Practice.

Martin, J. (2020). *Low Voltage 208Y/120V & 240VAC Arc Sustainability*. EFCOG Best Practice.

Martin, J. L. (2018). *The Operation of Equipment Near Powerlines*. IEEE ESW2018-37.

Martin, J. L. (2019). *Embracing the Generational Differences "Bridge the Gap" in the Workplace*. IEEE ESW2019-09.

EFCOG ESTG select group to assist with the DOE Headquarters AU-11 revisions to the DOE Electrical Safety Handbook (DOE-HNBK-1092-2013) to incorporate 10 CFR 851 and EFCOG Best Practices for Complex Usage.
NFPA 70E 2021

Mike Holt Enterprises Panel Team Member for 2020 NEC Training Series DVD's & Textbooks.

- 2020 NFPA 70 Code Changes
- 2020 Bonding & Grounding
- 2020 Understanding the National Electrical Code 1 (UNEC1)

LEADERSHIP EXPERIENCE:

6 years EFCOG Executive Council Representative

EFCOG ESTG Chair 2021-Present

EFCOG ESTG Vice Chair 2019-2021

EFCOG ESTG Secretary 2017-2019

IEEE IAS ESW Committee Tech Support – Vice Chair

IEEE Member/Presenter Since 2017

DOE-0359 & DOE-0336, Electrical Safety Committee Building Trades Voting Member

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