

Danna Villegas

Senior Refuel Floor Specialist, Nuclear Maintenance Project Management

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SUMMARY

Nuclear maintenance project leader with 10 years supporting **Boiling Water Reactor** refuel floor operations, reactor **outage planning**, **field execution**, and multidisciplinary teams. Leads maintenance scopes from preparation through delivery, with practical attention to **reactor disassembly**, reassembly, in vessel work, tooling, labor planning, logistics, risk reviews, and customer communication. Coordinates engineering, operations, suppliers, and technicians around clear work packages, schedule milestones, and safe execution. Provides technical guidance on procedural compliance, nuclear safety, quality expectations, and training support. Career growth has come through broader ownership, stronger team coaching, and closer involvement in delivery decisions. This background supports dependable outage execution, thoughtful risk control, and productive collaboration across complex nuclear maintenance programs.

EXPERIENCE

Refuel Outage Project Manager, Nuclear Maintenance

Atlantic Nuclear Solutions 📅 January 2021 - Present 📍 Wilmington, North Carolina

Leads reactor outage planning and field delivery for refuel floor maintenance scopes. Coordinates multidisciplinary teams, suppliers, customer needs, tooling, risk reviews, training, and procedural controls across active nuclear maintenance work.

- Led reactor outage planning for complex **refuel floor maintenance** scopes and field execution needs
- Coordinated **multidisciplinary teams** performing reactor maintenance, tooling, and equipment activities during outages
- Managed risk reviews and contingency planning, keeping project milestones visible for stakeholders
- Resolved technical issues through **customer communication**, **supplier coordination**, and focused engineering support
- Guided technicians through **procedural compliance**, quality expectations, and **nuclear safety** practices
- Developed training materials and coached technicians on practical maintenance execution methods

Nuclear Maintenance Supervisor, Outage Operations

Piedmont Energy Group 📅 May 2018 - December 2020 📍 Charlotte, North Carolina

Supervised maintenance personnel supporting outage preparation and execution. Directed labor planning, tooling readiness, work package reviews, technical coordination, records, quality activities, and site procedure training for field projects.

- Supervised maintenance personnel supporting outage preparation and execution activities across field projects
- Coordinated **tooling**, **labor planning**, and work package readiness before maintenance work began
- Reviewed technical documentation and supported safe completion of assigned maintenance tasks
- Partnered with **engineering** groups to resolve operational challenges during outage preparation
- Maintained project records and supported **quality** reviews for completed maintenance activities
- Trained team members on site procedures, work controls, and safe execution expectations

PROJECTS

Refuel Floor Tooling Readiness Program 📅 2024

A late tooling issue can reshape an outage day. Coordinated readiness reviews, labor needs, supplier inputs, and field checks so maintenance teams had clearer execution support before work began.

Outage Risk Review Framework 📅 2022

One missed contingency can slow an entire crew. Strengthened planning conversations around risk reviews, milestone visibility, customer needs, and practical recovery actions for reactor maintenance work.

LEADERSHIP & AWARDS

- Selected by maintenance leadership to coach technicians on safe, procedural outage execution.
- Recognized by project stakeholders for clear coordination across customers, suppliers, engineering, and field teams.
- Provided sustained leadership during reactor outage preparation, risk reviews, and delivery milestones.

EDUCATION

Bachelor's Degree in Mechanical Engineering

North Carolina State University 🎓 GPA: 3.5 📅 2016 📍 Raleigh, North Carolina

Coursework: Thermodynamics, Mechanical Design, Project Management, Engineering Materials

CERTIFICATIONS

- Project Management Training 📅 2021
- Nuclear Safety Training 📅 2021

TECHNICAL SKILLS

- **Reactor Maintenance:** BWR maintenance, reactor disassembly, reactor reassembly
- **Refuel Floor Operations:** Refuel floor work, in vessel maintenance, outage execution
- **Project Management:** Project planning, milestone tracking, delivery coordination
- **Risk Management:** Risk reviews, contingency planning, issue resolution
- **Maintenance Planning:** Work packages, labor planning, outage preparation
- **Tooling and Equipment:** Maintenance tooling, equipment readiness, tooling requirements
- **Quality and Compliance:** Nuclear quality, procedural compliance, work controls
- **Safety Programs:** Nuclear safety, site procedures, safe execution
- **Team Supervision:** Multidisciplinary teams, technician coaching, technical leadership
- **Stakeholder Coordination:** Customer communication, supplier coordination, engineering coordination

SKILLS

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|---------------------|-------------------------|-------------------------|--------------------------|
| • Project planning | • Nuclear safety | • Labor planning | • Training support |
| • Risk management | • Team leadership | • Supplier coordination | • Field execution |
| • BWR maintenance | • Tooling coordination | • Technical leadership | • Work package readiness |
| • Outage management | • Customer coordination | • Quality compliance | |

PROFESSIONAL AFFILIATIONS

- Nuclear maintenance professional community participant, sharing practical outage planning and field execution insight.
- Engineering alumni network member, supporting peer exchange around mechanical systems and project delivery.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST