DUKE ENERGY®

*BUILDING A **SMARTER** ENERGY FUTURE®*

Take A Minute

Potential Hazards

- Obstructions
  (slips, trips, falls)
- Adequate means to enter and exit
- Adequate lighting and ventilation
- Housekeeping conditions are orderly
- Pinch Points / Clearances

Responsibilities

- Medical Emergency - 911
- Fire Emergency – Exit building, move 100 ft away
- AED - location

Duke Energy Nuclear Generation Fleet

Brunswick Nuclear Plant >

Located in Southport, N.C. and home to 2 units since 1975, Brunswick produces 1,870 megawatts of energy.

Catawba Nuclear Station >

Located in York, S.C. and home to two units since 1985, Catawba produces 2,310 megawatts of energy.

Harris Nuclear Plant >

Located in New Hill, N.C. and home to one unit since 1987, Harris produces 964 megawatts of energy.

McGuire Nuclear Station >

Located in Huntersville, N.C. and home to two units since 1981, McGuire produces 2,316 megawatts of energy.

Oconee Nuclear Station >

Located in Seneca, S.C. and home to three units since 1973, Oconee produces 2,554 megawatts of energy.

Robinson Nuclear Plant >

Located in Hartsville, S.C. and home to one unit since 1971, Robinson produces 759 megawatts of energy.

Duke Energy Nuclear Generation Fleet

- Advantages
  - Corporate Structure provides site support and guidance
  - OE sharing / Lessons learned
  - Resource Sharing
    - Manpower
    - Parts Inventory
    - Tools and Equipment
  - Staffing and Overtime
  - Fleet projects management for common equipment
  - Fleet approach to future projects and roadmap

Catawba Nuclear Station –Duke Energy

Catawba Project Team make up

- Engineering – Project Champion, Overall Design, Electrical Design, Digital Process Systems, Technical Requirements, Cybersecurity
- Security- Project Owner, Project Management, Project Champion, Implementation, Scheduling, Compensatory Measures
- Craft resources- Implementation

Duke Energy and AIM

- Duke has three sites that utilize the AIM platform
- Catawba has worked with Mirion and its predecessor companies since the mid 90s
  - SY104 Door controllers
  - AIM platform installed 1998
  - Image Capture back up video 2016
  - Frontend and Backend upgrade & AIM platform with integrated image capture 2018
  - Door controllers converted to Mercury panels 2021-2023
  - Frontend upgrade & AIM platform install 2025

- Oconee completing install of updated system this year
- McGuire to install updated system end of 2024

Project Development

- Build the business case
  - Project Scope
  - Risk
  - Alternatives
- Project Approval - Plant Health Review Board
  - Scope Overview - TRD
  - Cost – including bid events
  - Timeline
  - Resources
- Funding Package
  - Cost – Owners review and approval (Catawba Only)
  - Contract Issuance
- Implementation

Project Success

- Extreme Ownership
  - Engineering
  - Security
  - Site Support
  - Mirion Support

- Transition Planning
  - Minimize Impacts to Security
  - Minimize Impacts to system operation
  - Scheduling
  - MTS validation
  - Support Resources

Lessons Learned, Discussion, Questions

- What works for your site?
- What does Mirion do well for support?
- Does your site have an LCM?
- What do you need from Mirion?
- What OE or bumps in the road have you had at your site?
- What can Mirion do better?

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