

# *Nuclear Utility Obsolescence Group*

## *NUOG Update*

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**INSTITUTE OF NUCLEAR POWER OPERATIONS**

- Publication of NX-1037
- NUOG supports INPO Ageing and Obsolescence Equipment Reliability activities
- NUOG Steering Committee Member

**PROACTIVE OBSOLESCENCE MANAGEMENT SYSTEM**

- Facilitates Industry Collaboration Center and Think Tank
- Develop an Industry OVR
- Industry Implementation of POMS

**EQUIPMENT RELIABILITY WORKING GROUP**

- Work with ERWG on Ageing and Obsolescence
- Determine need for Obsolescence Team as part of ERWG

**RAPID**

- Supports industry to upload solutions to OIRD
- NUOG Project Center

**JOINT UTILITY TASK GROUP**

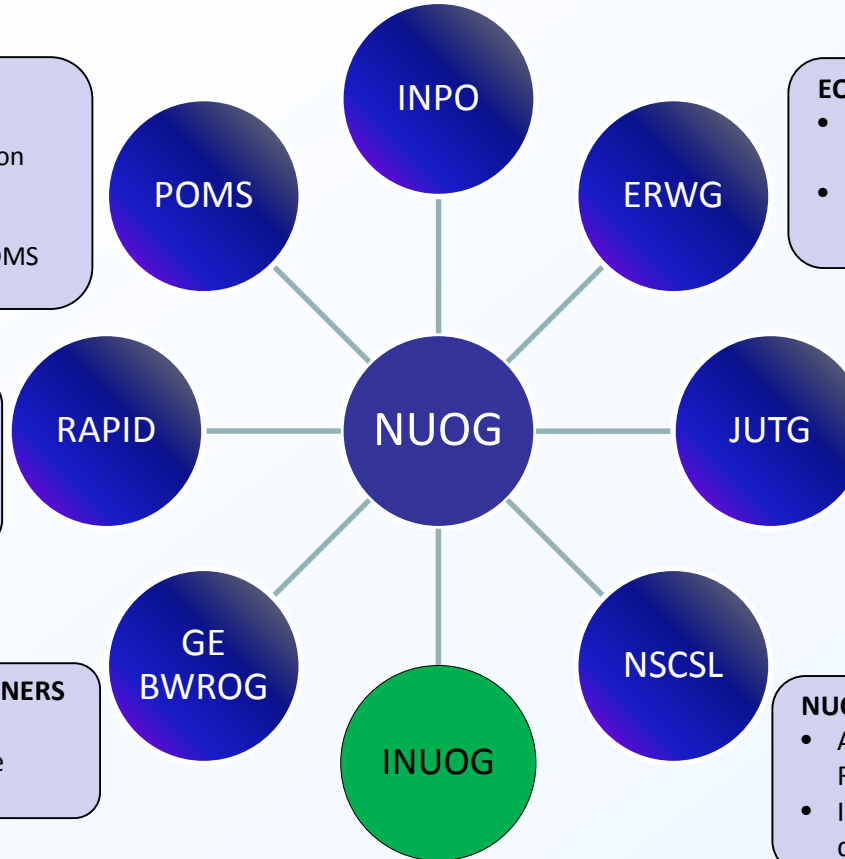
- Joint development of obsolescence guidelines
- Critical Spares support
- New Industry challenges

**GE BOILING WATER REACTOR OWNERS GROUP**

- Addresses high risk GE Obsolete Equipment

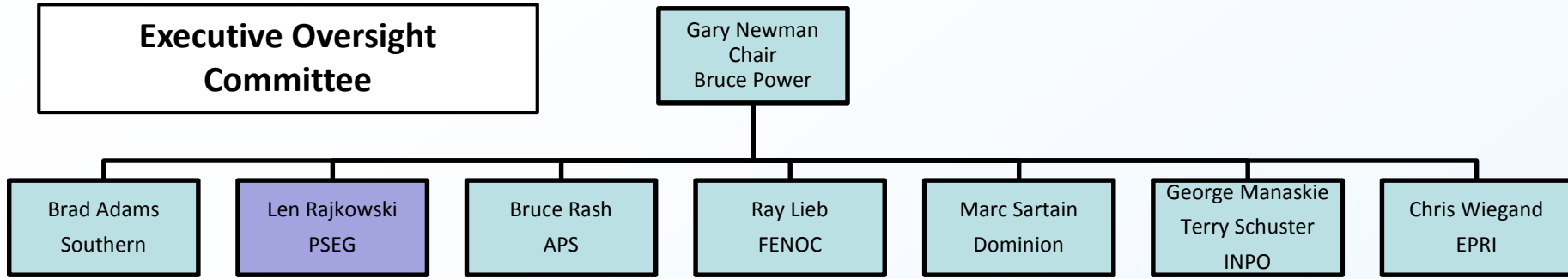
**NUCLEAR SUPPLY CHAIN STRATEGIC LEADERS**

- Align NUOG with new INPO PO&C Requirements
- Identify support of supply chain challenges due to obsolescence



**International Nuclear Utility Obsolescence Group**

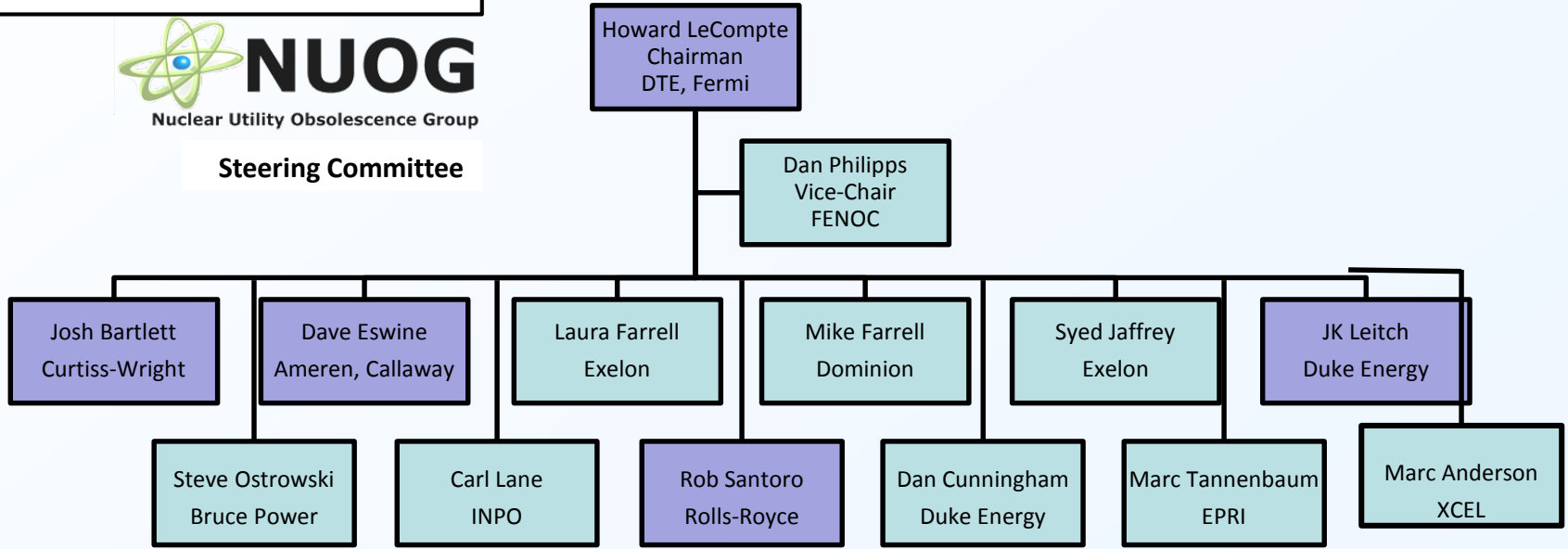
- Work with NUOG the Industries Aging and Obsolescence Programs
- Drive the European Nuclear industries effort to further collaborate in the area of Obsolescence.



**NUOG Steering Committee**



**Steering Committee**



# *Nuclear Utility Obsolescence Group*

## *2017 Projects*

### ***Projects:***

- *Response to Suppliers Exiting the Industry: Steve Willrett: NUOG Supplier Advisory Committee*
- *Impact of AP-913 Changes on OVR and Delivering the Nuclear Promise: Rob Santoro, Rolls-Royce & Dan Philipps, FENOC*
- *POMS Action Plans: Rob Littles, Rolls-Royce & Howard LeCompte, Detroit Edison*
- *Delivering the Nuclear Promise-NUOG Collaboration: Howard LeCompte, Detroit Edison, Dan Philipps, FENOC & Rob Littles, Rolls-Royce*
- *Delivering the Nuclear Promise-Industry Equivalency Process: Mike Farrell, Dominion & Syed Jaffery, Exelon*
- *Component Based Solutions: Steve Ostrowski, Bruce Power & Dennis Kazimer, Bruce Power*

### Why suppliers leave the industry

- Evolving QA expectations
- Evolving technical and quality requirements
- To follow the money

### When supplier's leave the industry

- Obsolescence jumps
- Replacement items must be located and evaluated
- There is always risk associated with use of replacements
  - Introduction of unknown vulnerabilities
  - Failure to evaluate unknown design considerations

The purpose of Project is to understand  
the Impact of AP-913 changes

### Project Goals

Understand AP-913 revision changes

How do the changes affect the obsolescence program

What needs to be done to reduce the impact of the changes

## Project Goals

- Align POMS users on definitions and expectations
- Increase number of Action Plans

## Project Benefits:

- Ability to reflect program health & progress (POMS dashboard)
- Manage prioritization within Obsolescence Manager
- Reduce administrative burden
- Provide process efficiencies
- Encourage collaboration by sharing solutions

## **Proposed DNP IO: Industry Collaboration Solutions\* - Executive Sponsor – Gary Newman**

### **Vision of Excellence:**

- Industry collaboration promotes timely resolution of high priority obsolescence issues across the industry and efficient use of engineering resources.

### **Value Proposition Statement:**

- Use of collaboration will enable timely resolution of high priority obsolete models , contributing to improved safety and reliability.
- Industry collaboration promotes efficient use of engineering resources and shared solutions across the industry.
- The Proactive Obsolescence Management System (POMS) Industry Obsolescence Value Ranking (OVR) can be further utilized for industry prioritization.
- The EPRI SPV Performance Experience Database can be further utilized for prioritization alignment.
- Industry collaboration can be further leveraged to gain improvement with DNP EB 16-25 Critical Component Reduction and DNP EB 17-003 Value Based Maintenance.
- Focus on Single Point Vulnerabilities(SPVs), Limited Condition Operation(LCOs) & Critical 1 Components

\* Builds on current NUOG Collaborative Model which has been executed by several utilities



## **Proposed DNP IO: Component Based Solutions**

### **Vision of Excellence:**

- Standardized solution guides by component type improves the effectiveness of obsolescence strategies and promotes industry collaboration and efficient use of engineering resources.

### **Value Proposition Statement:**

- **Standardized component based catalogues** on valves, circuit breakers, transmitters, relays, switches, fuses, MCC assemblies, detectors, printed circuit boards, and power supplies promotes efficient use of engineering resources and common obsolescence strategies across the industry, contributing to improved safety and reliability.
- **Component based solutions** can be further leveraged to gain improvement with DNP Improvement Opportunity SC-01: Strategic Sourcing and SC-02 : Material Cost Reduction and DNP EB 17-003 Value Based Maintenance.
- **Component based solutions** would be produced to the extent practical via the Standardized Design and Part Equivalences Processes DNP EBs, and the parts acquired via the Supply Chain Strategic Procurement DNP EBs.

## **Delivering the Nuclear Promise(DNP): Parts Equivalency \***

### **Vision of Excellence:**

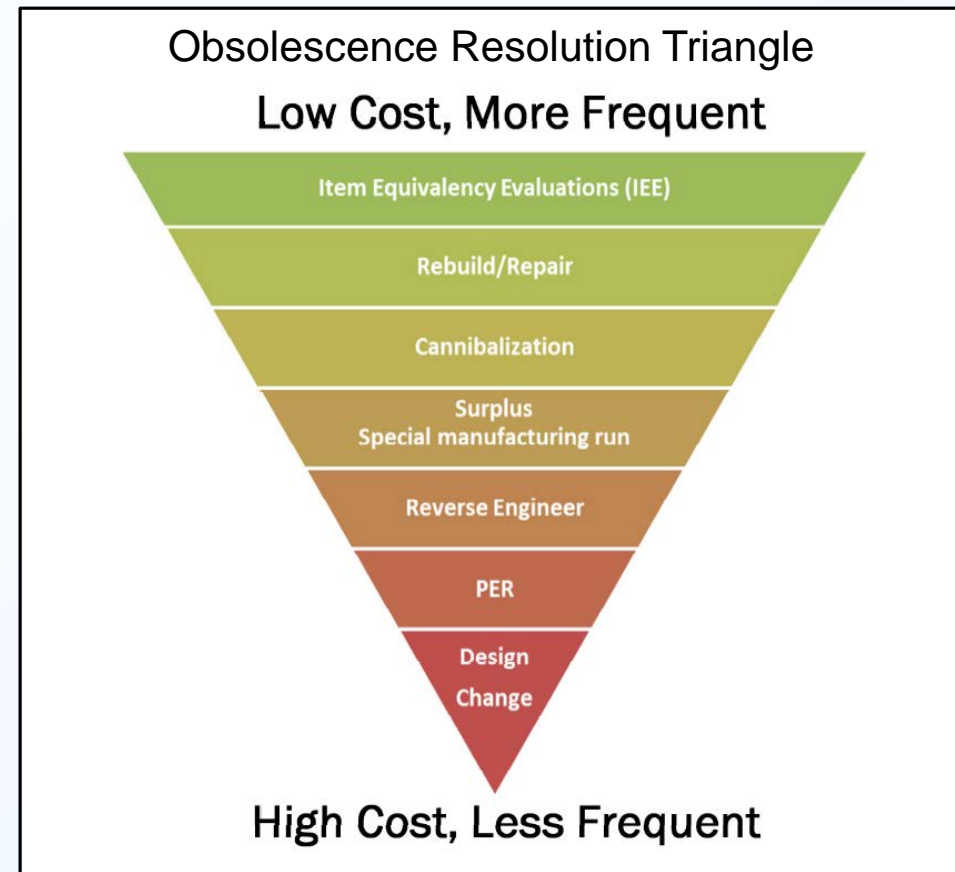
- Implementing a standard parts equivalency process promotes efficient use of engineering resources and streamlined parts evaluations.

### **Value Proposition Statement:**

- Use of simplified process for will allow timely resolution of equipment deficiencies and obsolescence issues, contributing to improved safety and reliability.
- The standard process promotes efficient use of engineering resources and shared evaluations across the industry.
- Standardized software to facilitate compatibility will streamline the implementation of the new procedure.
- The standard process facilitates common industrywide training, promotes process stability and supports the sharing of Item Equivalencies between utilities.
- This process standardization effort can leverage the Standard Design Process and structure to assist in the industry standardization and implementation.

\*Sponsored by the DOWG with team members from NUOG, NSCSL, JUTG, and EPRI supporting the DNP Improvement Opportunity

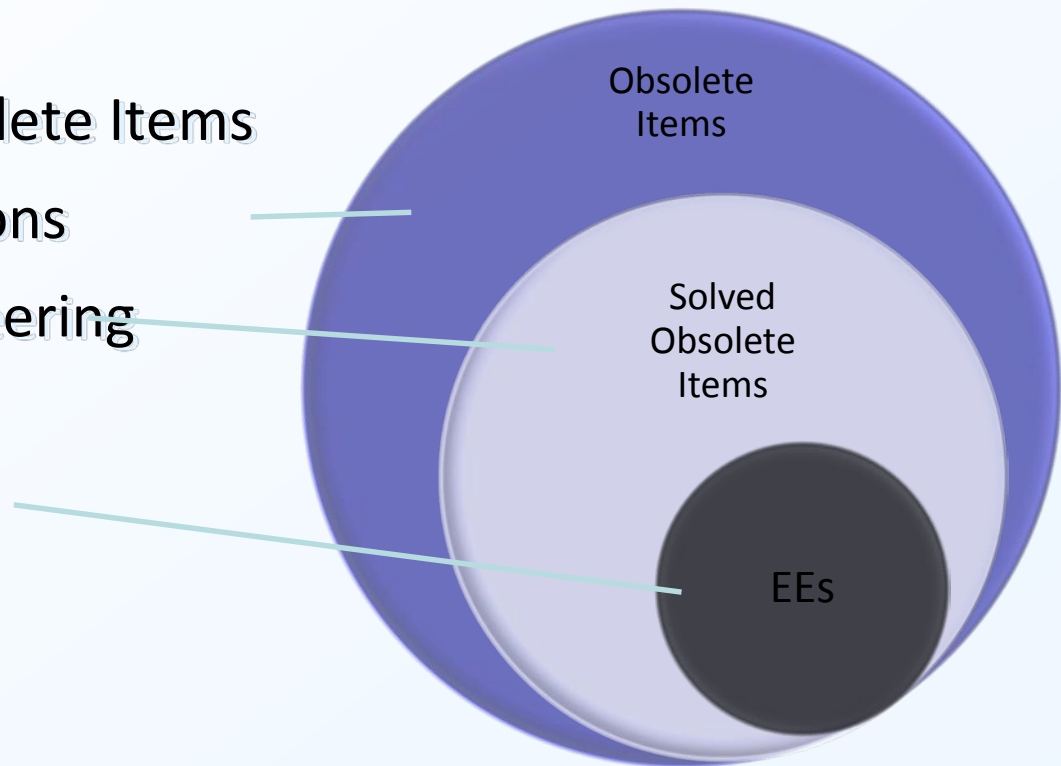
- NUOG has provided cost savings to the industry through several methods:
  - Collaborative proactive obsolescence solutions
  - Solutions shared through OIRD
  - Manufacturer re-runs of Obsolete Product Lines
  - Obsolete Product Lines being restarted
  - Obsolete Inventory Pooling
  - Obsolete Parts Brokering
  - POMS Feedback & Action Plans(Solutions)



# *Obsolescence Item Replacement Database (OIRD)*

*Proactive solutions to solve Industries Obsolescence issues*

- 135,128 Total Obsolete Items
- 59,352 Total Solutions
- 13,061 Total Engineering  
Equivalencies (EE)



## How do we Minimize Obsolescence Impact on ER?

- Focus on Critical Components
  - ✓ Increase Accuracy of Man./Model (identification)
  - ✓ Look ahead out to T104 (identification)
  - ✓ Adjust and apply OVR (prioritization)
  - ✓ Capture in System Health actions (prioritization)
  - ✓ Leverage (solutions)
    - Share and utilize existing solutions
    - Develop new solutions collaboratively\*
    - Use common item equivalency\*
  - ✓ Maintain Critical Spares (solutions)
- Stay Aligned with the Industry (INUOG, ERWG, etc..)

## The 2017 NUOG Annual Meeting

### Doubletree by Hilton Portland, ME

363 Maine Mall Road-Portland, Maine 04106

July 17-19

*Followed by the POMS Users Group Meeting on July 20<sup>th</sup>*

- Room Rate: \$199
- Ideally located 2 miles from Portland International Jetport, 5 miles from downtown
- Heated indoor pool and fully equipped fitness center
- Located near beautiful Maine beaches, shops & restaurants, and championship golf courses
- Complimentary shuttle service to airport and locations in a 1 mile radius of the property

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**SAVE THE DATE**

