

# *Nuclear Utility Obsolescence Group (NUOG)*

## *RAPID Update*

*Howard T. LeCompte*  
*NUOG Chairman and Principal Technical Expert*  
*DTE Electric*

- NUOG Key Messages:
  - NUOG Steering Committee
  - NUOG Industry Interfaces
  - 2016 Projects
  - OIRD
  - Current Obsolescence Risk
  - 2016 NUOG Conference

**Steering Committee:**

- Howard LeCompte (NUOG Chairman) – DTE Energy, Fermi Nuclear Power Station
- Dan Phillips (Vice-Chair) – FENOC
- Josh Bartlett – Scientech, CWFCC
- Dave Eswine – Ameren Missouri, Callaway Nuclear Power Plant
- Laura Farrell – Exelon
- Mike Farrell – Dominion Nuclear
- Syed Jaffrey – Exelon
- JK Leitch – Duke Energy
- Steve Ostrowski – Bruce Power
- Thomas Roddey - INPO
- Rob Santoro – Rolls-Royce
- Scott Stewart – Southern Nuclear Operating Company
- Marc Tannenbaum – EPRI

**Supplier Advisory Committee:**

- Brad Detamore – General Electric
- Bristol Hartlage – Curtiss Wright
- Bill Henwood – ValvTech
- Greg Keller – AZZ
- Doug VanTassell – ATC Nuclear
- Steve Willrett-Rolls-Royce Nuclear Engineering Services.

**INSITUTE 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**

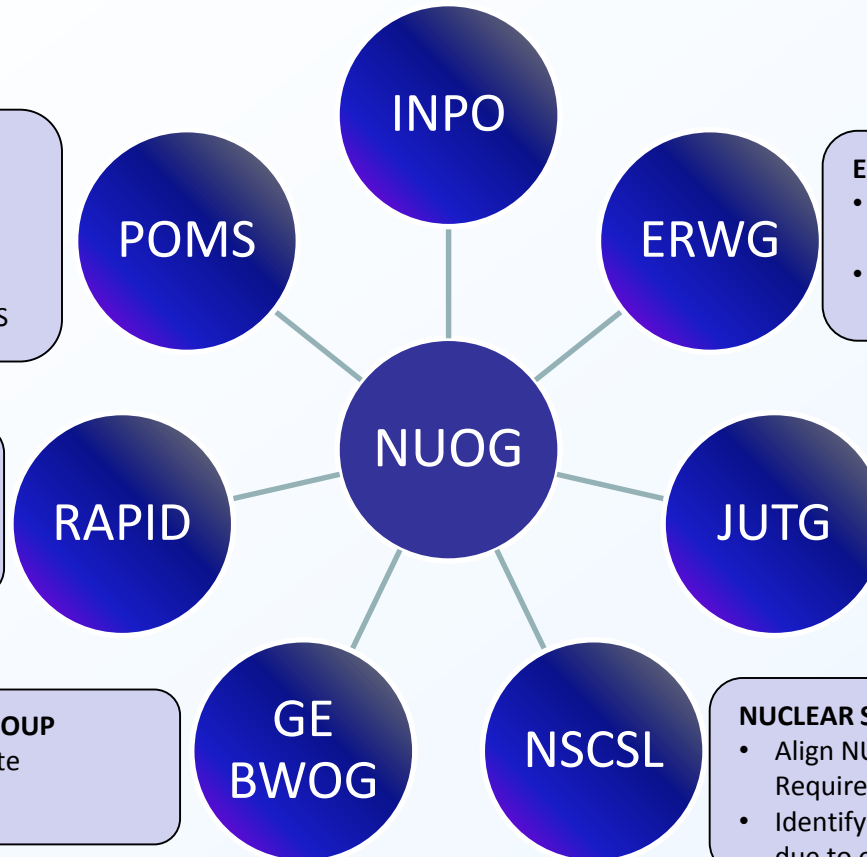
- Joint development of obsolescence guidelines
- Critical Spares support
- New Industry challenges

**GE BOILING WATER 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



- **Project 1:** NUOG Collaboration Initiative
  - **Owner:** Howard LeCompte / Rob Santoro
  - **Due Date:** On-Going/ Standing Project
- **Project 2:** Component Based Solutions Guide
  - **Owner:** Steve Ostrowski / Josh Bartlett
  - **Due Date:** Q4 2016
- **Project 3:** Industry Obsolescence Impact on Equipment Reliability
  - **Owner:** Dan Philipps / Thomas Roddy
  - **Due Date:** Q4 2016
- **Project 4:** Obsolescence Prevention in Design Modification
  - **Owner:** Dave Eswine / Scott Stewart
  - **Due Date:** Q3 2016
- **Project 5:** Obsolescence Metrics Refresh
  - **Owner:** Syed Jaffrey / Rob Littles
  - **Due Date:** Q3 2016

- **Project 1: NUOG Collaboration Initiative**
  - **Owners:** Howard LeCompte / Rob Santoro
  - **Purpose:** Collaboratively resolve high priority obsolescence issues across the industry
  - **Current Status:**
    - Charter issued in Q1 of 2016
    - Developing Industry Risk Scope, per month, for all participating stations
    - Working with stations to secure funding for obsolescence resolution and buy-in for the scope
    - Engaging higher level organizations for support for the model
    - Developing interface process for when suppliers engage
    - Developing guidance on industry tools to be used and how to communicate
- **2015 Successes: 292** obsolete models solved collaboratively for a total cost savings of **\$981,142**

- **Project 2: Component Based Solutions Guide**
  - **Owners:** Steve Ostrowski / Josh Bartlett
  - **Purpose:** To develop standardized solution guides per component type
  - **Current Status:**
    - Collected feedback on best practices across industry
    - Working on a POMS report to rank the areas of vulnerability by component type
    - Working to develop a decision tree or matrix within the solution guide as an entry point

- **Project 3: Industry Obsolescence on Equipment Reliability**
  - **Owners:** Dan Philipps / Thomas Roddy
  - **Purpose:** To identify and communicate obsolescence impact on SPV's, life cycle management plans, INPO AFI's, etc. to the industry and to promote the NUOG/ERWG interface.
  - **Current Status:**
    - Reviewing POMS SPV undefined population and obsolete SPV's with no solutions & tie in with NUOG Collaboration Initiative.
    - Developing reports and gap closure plan for SPV's
    - Develop industry OVR score and provide to ERWG for comment



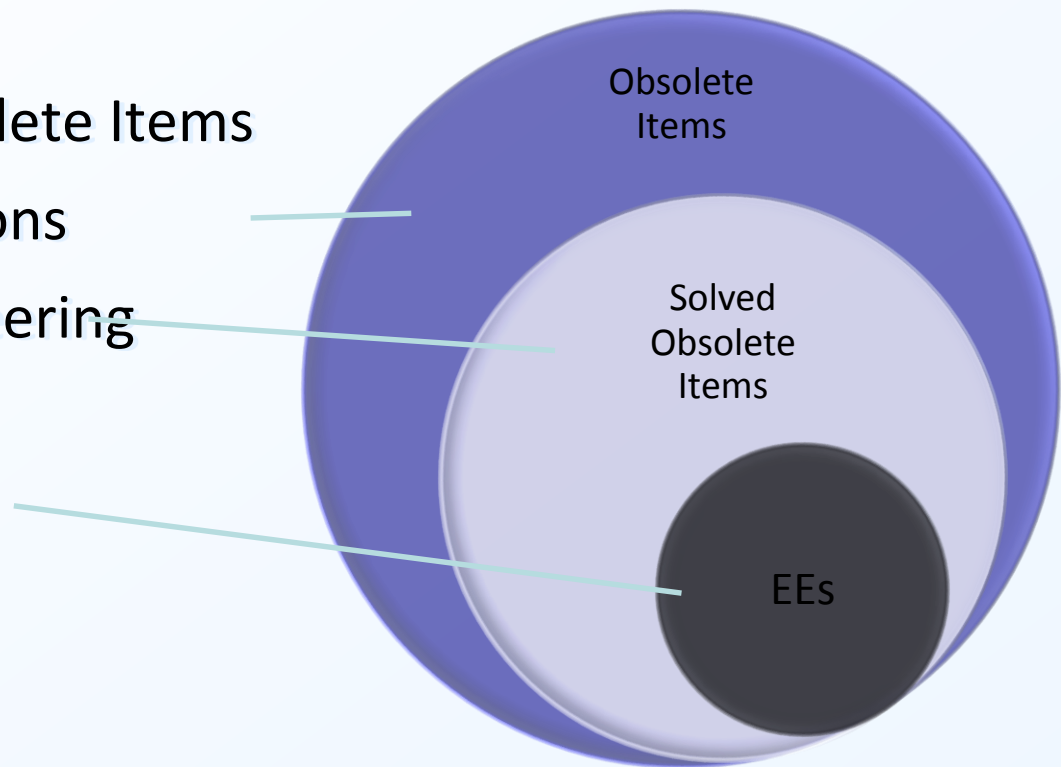
- **Project 4: Obsolescence Prevention in Design Modifications**
  - **Owners:** Dave Eswine / Scott Stewart
  - **Purpose:** To avoid obsolescence during the design modification process.
  - **Current Status:**
    - Completed first draft of guidance document and opened to industry for comment.
    - Developed an obsolescence prevention checklist and currently receiving industry feedback and comment.
    - Team to collate all feedback and publish final documents

- **Project 5: Obsolescence Metrics**
  - **Owners:** Syed Jaffrey / Rob Littles
  - **Purpose:** Develop high level measurable and meaningful metrics to effectively evaluate a station's Obsolescence Program Health.
  - **Current Status:**
    - Developed 8 criteria metric
    - Received input from industry on 8 metrics for viability
    - Need to update POMS4 based on updated metrics

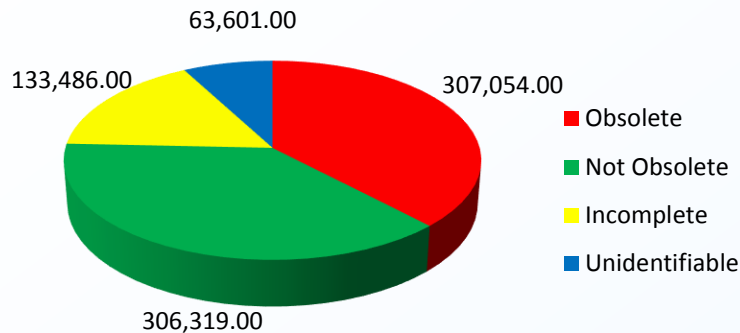
# Obsolescence Item Replacement Database (OIRD)

*Proactive solutions to solve Industries Obsolescence issues*

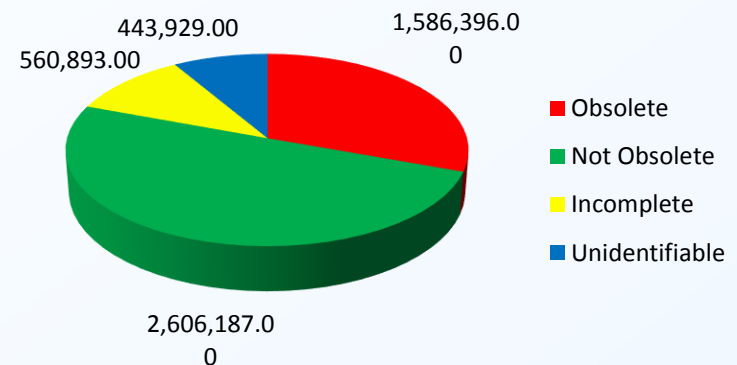
- 135,128 Total Obsolete Items
- 59,352 Total Solutions
- 13,061 Total Engineering  
Equivalencies (EE)



## By Manufacturer/Model



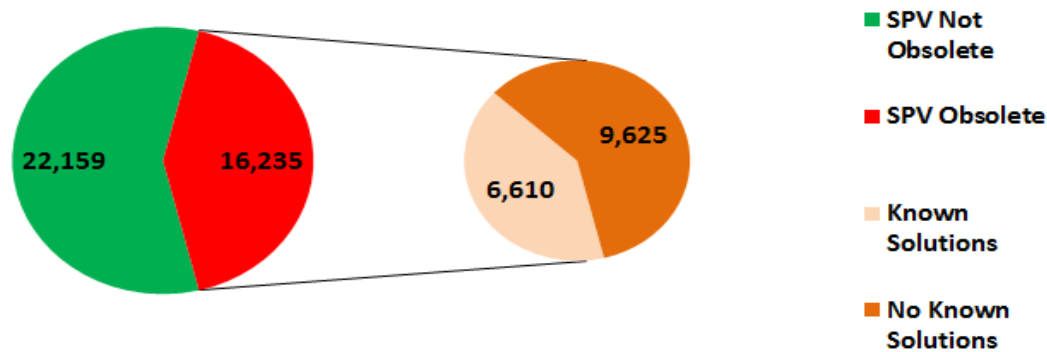
## By Installed Component



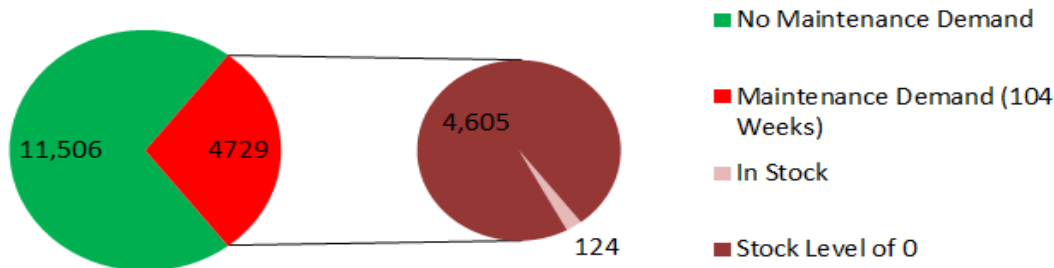
### Definitions:

- Obsolete: Identified as obsolete by OEM by the POMS Vendor Contacting Team
- Not Obsolete: Identified as currently manufacturer by the OEM b the POMS Vendor Contacting Team
- Incomplete: More information is required to be provided to OEM for them to determine an Obsolescence Status (information required found in POMS)
- Unidentifiable: The manufacturer was unable to determine an obsolescence status based on the model number provided to them (due to poor information in Utility Asset Management Systems).

## 38,394 Single Point Vulnerability Components

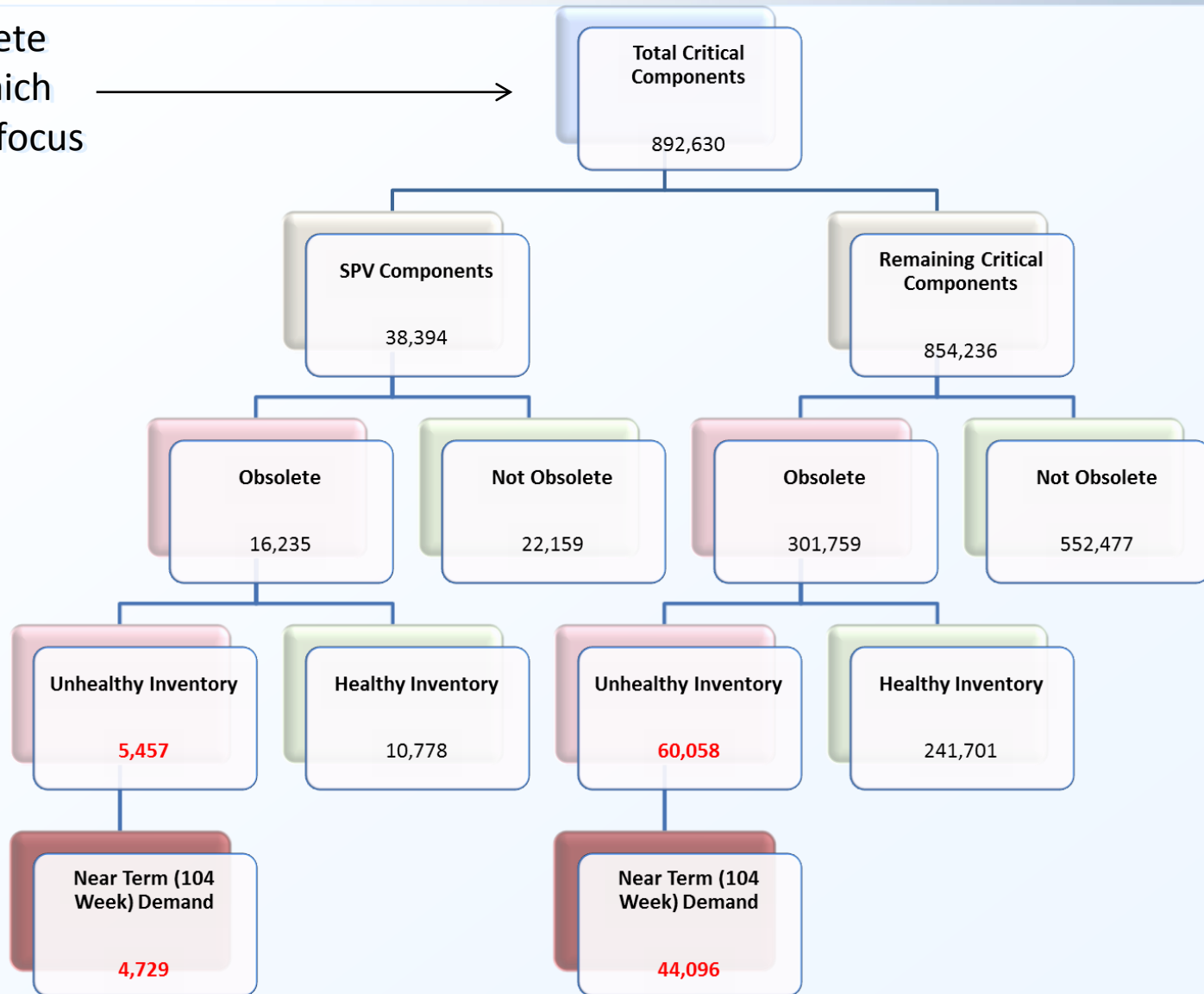


## 16,235 Obsolete Single Point Vulnerabilities with Maintenance Demand



# Breaking Down Obsolescence Risk

There are a lot of obsolete critical components, which ones does the industry focus on?



Focus on SPV's with unhealthy inventories (i.e. zero stock level) and maintenance demand in the next 104 weeks

The NUOG Steering Committee  
Proudly Announces:

**The 2016 NUOG Annual Meeting**

The Crystal Gateway Marriott  
Washington D.C.

1700 Jefferson Davis Hwy, Arlington, VA 22202  
(703) 920-3230

**July 18-20, 2016**

Surrounded by some Arlington's best  
shopping and restaurant destinations

With the Crystal City Metrorail accessed  
from the lobby, guests can easily reach the  
best museums, monuments, and attractions  
in the area.

**Offering a conference rate of \$199**

Room Block set to open March 2016



