



# Industry Initiative Overview and Materials Action Plan Status

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**Annual NRC/Industry Management  
Meeting**

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# Background

- NEI 03-08 was first implemented January 2004, Rev 2 issued 2010
- EPRI Materials Action Plan Committee (MAPC) is part of the EPRI Nuclear Sector
- Forum to review RCS materials performance issues and expectations
  - Successful model for program oversight and collaboration
- Representation on MAPC and underlying committees

## NEI 03 - 08 Guideline

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- Documents the industry's Materials Initiative
- Establishes policy and protocols
- Defines roles, responsibilities, and expectations for owners and committees
- Original oversight committees and responsibilities merged into EPRI MAPC 2010

# MAPC Technical Programs and Focus

- BWRVIP: BWR internal components and primary systems materials
- MRP: PWR primary system components and materials
- SGMP: SG tube integrity, evaluation, and performance
- PSCR: Fundamental corrosion research on primary system materials to support technical programs
- Water Chemistry Controls: Chemistry control limits and methods for both BWR & PWR plants
- PWROG Materials Sub-Committee: PWR primary system materials tactical and operational issues
- WRTC: Welding and Repair Technology

# Utility Engagement and Experience

- Technical and executive advisors on program content, initiatives , and project prioritizations
  - Consistent with needs of industry
- NEI 03-08 Materials Initiative Expectations
  - Proactive management of materials issues
  - Resources to support industry work on materials issues
  - Structured approach to prioritization
  - Funding for high priority, emergent and long term issues
  - Consistent and timely implementation of guidelines
  - Share operating experience and lessons learned

# Key Deliverables

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- Strategic Plan - Issues identification, priorities, critical gaps, and objectives
- Industry guidelines establish guidance beyond Code and regulatory requirements
  - Dissimilar metal weld inspections
  - RPV internals inspections
  - Zinc injection, Noble chemical injections
- Mitigation methods and processes
- NDE technology development and application

# Guidelines Implementation

- Owners are active participants in guidelines development and reviews
- Implementation protocol per NEI 03-08
  - Consistent, timely compliance with guidelines
  - Graded approach
    - Mandatory, Needed, Good Practice
  - Deviation process
    - Exceptions documented, reviewed, reported
- INPO – A key partner with a critical role for industry compliance

# Delivering the Right Behaviors

- High level of industry coordination, alignment, and communication
- High priority projects and gaps being worked
- Predictable funding
- Processes for prioritizing projects, budgets, and planning are effective
- INPO – Fully engaged and active participants in programs, seminars, committee meetings

# Delivering the Right Behaviors

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- Operating Experience, Lessons Learned, 3<sup>rd</sup> party reviews, and root cause investigations
- Positive interactions with NRC
- Expectations understood and communicated

# Summary and Conclusions

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- Industry response to prior materials issues have produced positive impact and benefits
- Working relationships among technical programs is exemplary
- Progress made; gaps closed; however, the industry materials history is still being written



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