

# PWR Reactor Internals Engineering Evaluations and Functionality Assessments - 2020

## Updates to MRP-230 for SLR

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**OPEN SESSION**



# Introduction

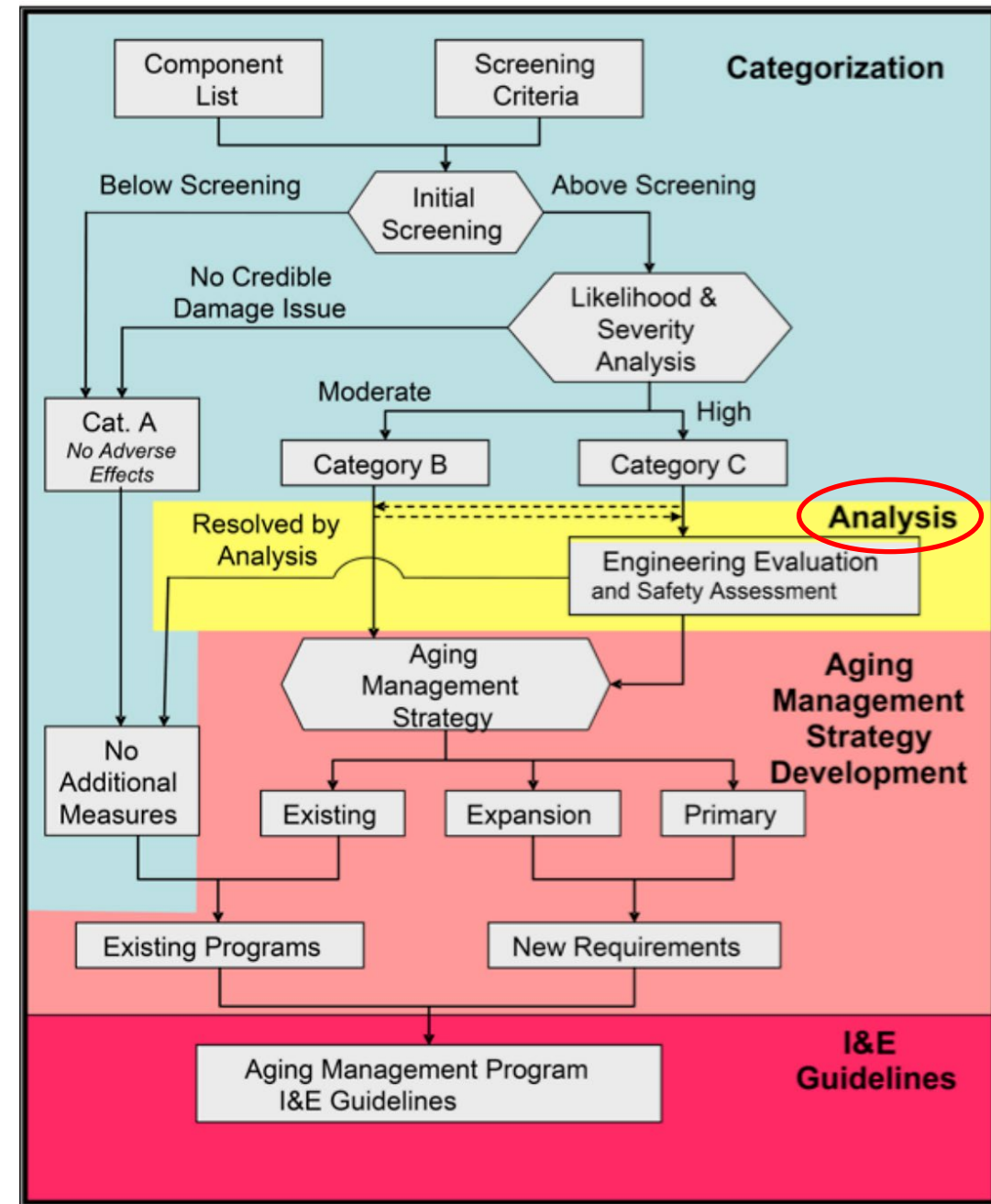
- Today's meeting is the latest in a series of NRC-industry technical information exchange meetings related to MRP-227 guidance
- Industry endeavors to support continued operations of PWRs
- Subsequent License Renewal (SLR) is a critical initiative for fleet
- Use of EPRI MRP materials research and testing results forms the foundation of a solid materials aging management strategy
- Multiple technical exchange meetings with NRC have taken place since mid-2000s
- These exchange meetings are beneficial and important to review continuing research findings that result in guidance updates

# Background

- MRP-230 Revision 0 originally published in 2008 (product ID 1016597)
- Revision 1 published in 2009 (product ID 1019091)
- Revision 2 published in 2012 (product ID 1021026)
- Revision 2 Supplement 1 published in 2016 (product ID 3002007955)
- Revision 2 Supplement 2 published in 2019 (product ID 3002013070)
- Revision 3 published in 2020 (product ID 3002018248)
- EPRI submitted to NRC for information in August 2020 under letter MRP 2020-016 (ML20244A027)
  - Supports subsequent license renewal and forthcoming MRP-227, Revision 2
- Technical report performs critical role in developing MRP-227
  - Evaluates materials aging functionality of component for CE and Westinghouse plants
  - Documents the results of finite element modeling evaluations for components
  - Key input document for MRP-227 guidance for subsequent license renewal

# Background (cont.)

- MRP-230 contains everything in the “Analysis” box
  - Provides key input to downstream steps
  - Made updates based on new test data
- Higher risk category components
  - Become leading components (“Primary”)
- Approach is the same as for MRP-227 Revision 0 and 1



# CLOSED SESSION BEGINS

# Together...Shaping the Future of Electricity