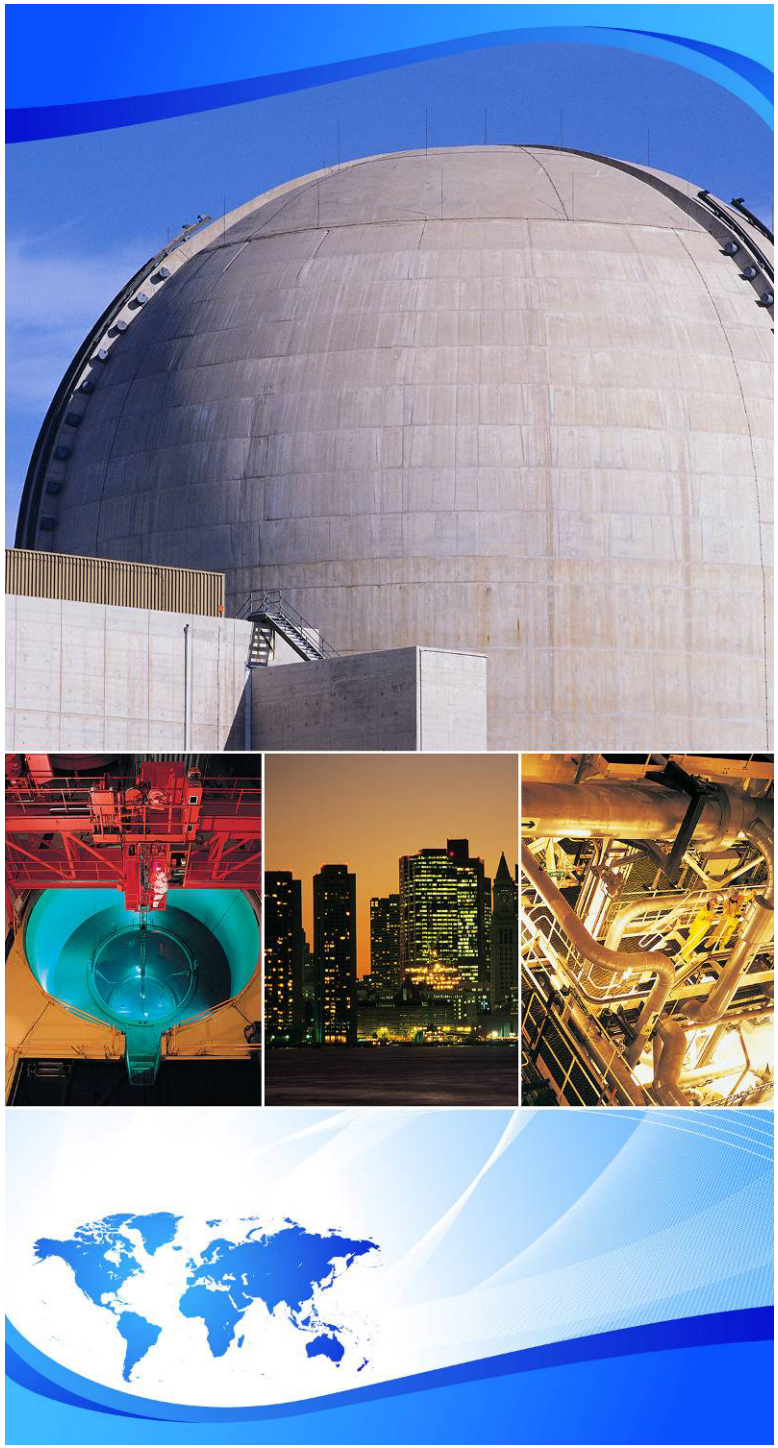

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MRP PWR Rx Internals Industry Program

Industry-NRC Coordination Meeting

May 25-26, 2010

Tim Wells

SNC

PWR Internals Inspection & Evaluation Guidelines (MRP-227)

- Purpose
  - Support license renewal commitments
  - Support RI aging management thru end of plant life
- Identifies
  - Components to be inspected
  - Timing of Inspections
  - Inspection standards
    - Complementary document (MRP-228)
- Submitted for SE review January 2009

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MRP-227 Status

- Submitted for SE Review – January 2009
  - Review-fee waiver granted – February 2009
- RAIs
  - Set #1 – May 09 – request for documents only
    - Documents provided summer 09
  - Set #2 – August 09 - 26 questions
    - Response provided January 2010
  - Set #3 – November 09 – 14 questions
    - Draft response provided April 2010
  - Set #4 – TBD
- Current NRC Schedule – SER early 2011

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MRP-227 Status (cont'd)

- NRC Identified Some Concerns with Review - April 2010
  - Level of detail provided to get to Section 4 Tables
  - Documents have been provided – Summer 09
    - No 'detailed' presentation
  - Core Team working to resolve
    - Conference call with NRC – 5/21/2010
    - Meeting with NRC – June 8-9
  - NRC waiting to issue RAI 4th Set
    - June 8 meeting will determine how we proceed

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Aging Management Strategy Development

- Based on
  - Operating experience and prior examination results
  - Prior evaluations: OG efforts, License Renewal (GLRP)
  - Results of functionality assessment
  - Engineering judgment assessments
  - Component inspectability

- Provides program elements for maintaining the long-term function of the Rx internals

- Results into 4 groups of components: 'Primary', 'Expansion', 'Existing Programs' and 'No Additional Measures'

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I&E Guidelines Recommendations

Primary

- Susceptible location expected to experience degradation first

Expansion

- Components less susceptible to degradation
- Potential pool of components for enlarging or expanding inspections

Existing Programs

- Components for which existing industry programs are capable of managing those effects

No Additional Measures

- No concerns
- No inspections required

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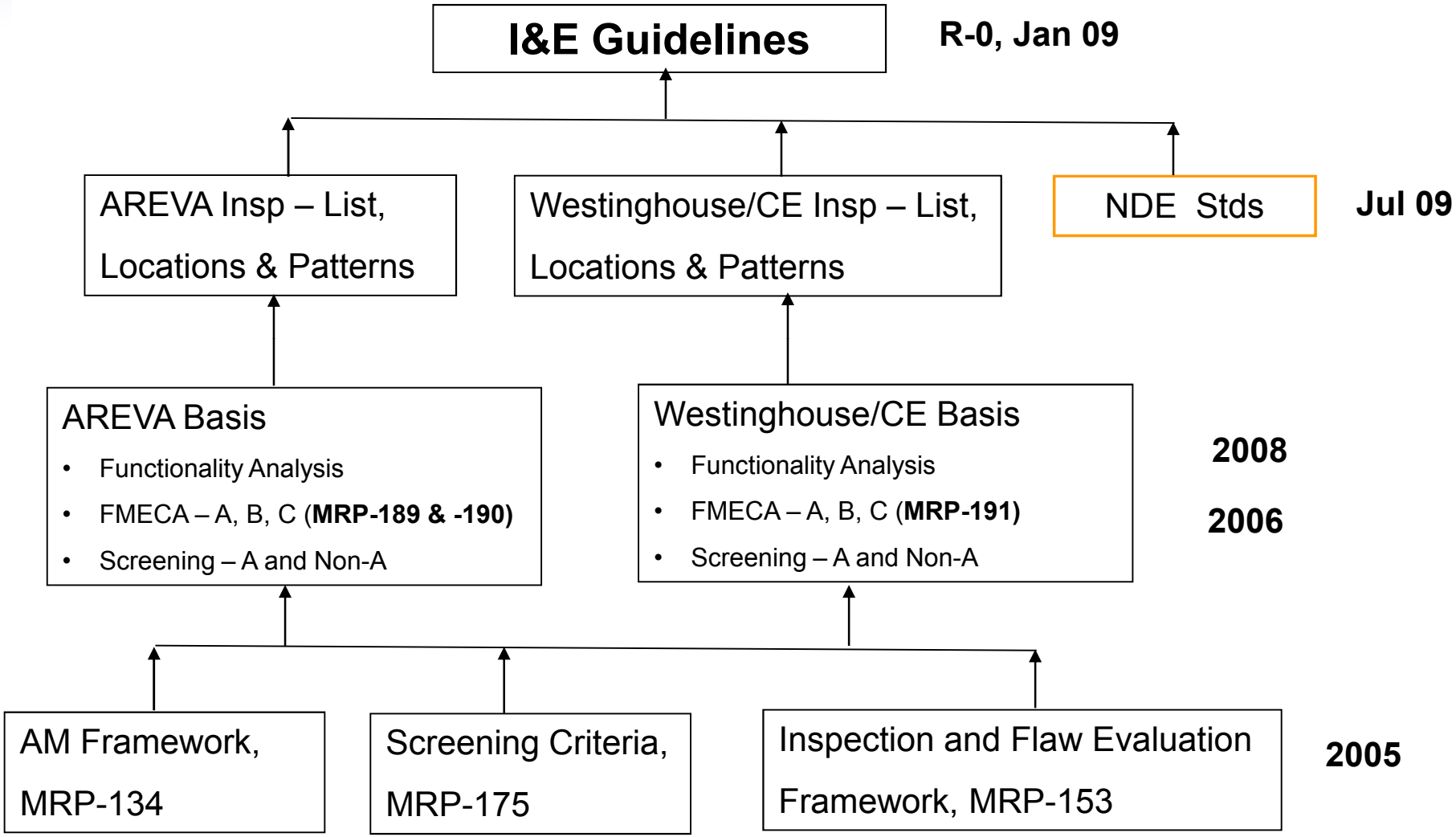
I&E Guidelines



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Utility Impact of RI I&E Guidelines

- Requires 'Reactor Internals Aging Management Program'
  - Per NEI 03-08 implementation protocol
  - Continue current programs for internals and follow new requirements from the Guidelines

- Basis for license renewal submittals to NRC committing to additional inspections
  - Early LR plants to submit based on Rev. 0
  - Later plants under post-SER version

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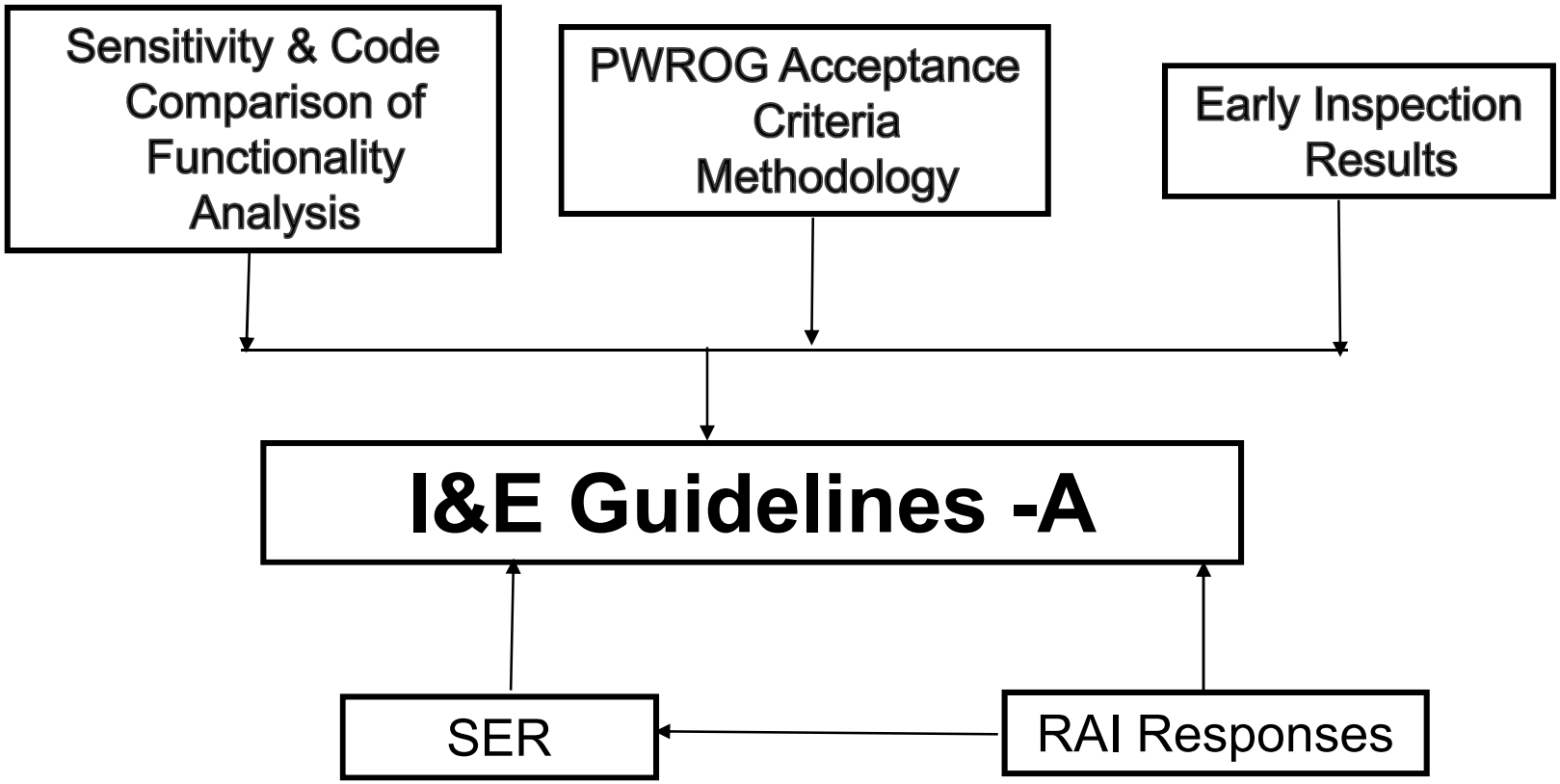
RI I&E Guidelines Ongoing Work



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PWR License Renewal Lead Plants

- 14 plants: original licenses expire prior to 2014
- 4 plants: planning some scope of ‘Primary’ examinations by end of 2011
- 6 more plants: planning some scope of ‘Primary’ examinations by the end of 2013

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2010 Planned NRC Interactions & Training

NRC Interactions - Reactor Internals

- June 8-9:
  - Screening and FMECA Process (Closed);
  - RAIs;
  - GALL and LRA RI AMP (Public)
- Likely need for mid-to-late summer technical meeting
- October 13-14: Public

MRP-227 Program workshops

- One in-person meeting: TBD, mid-2010, possibly at summer PWROG meeting
- One webcast: TBD, late 2010

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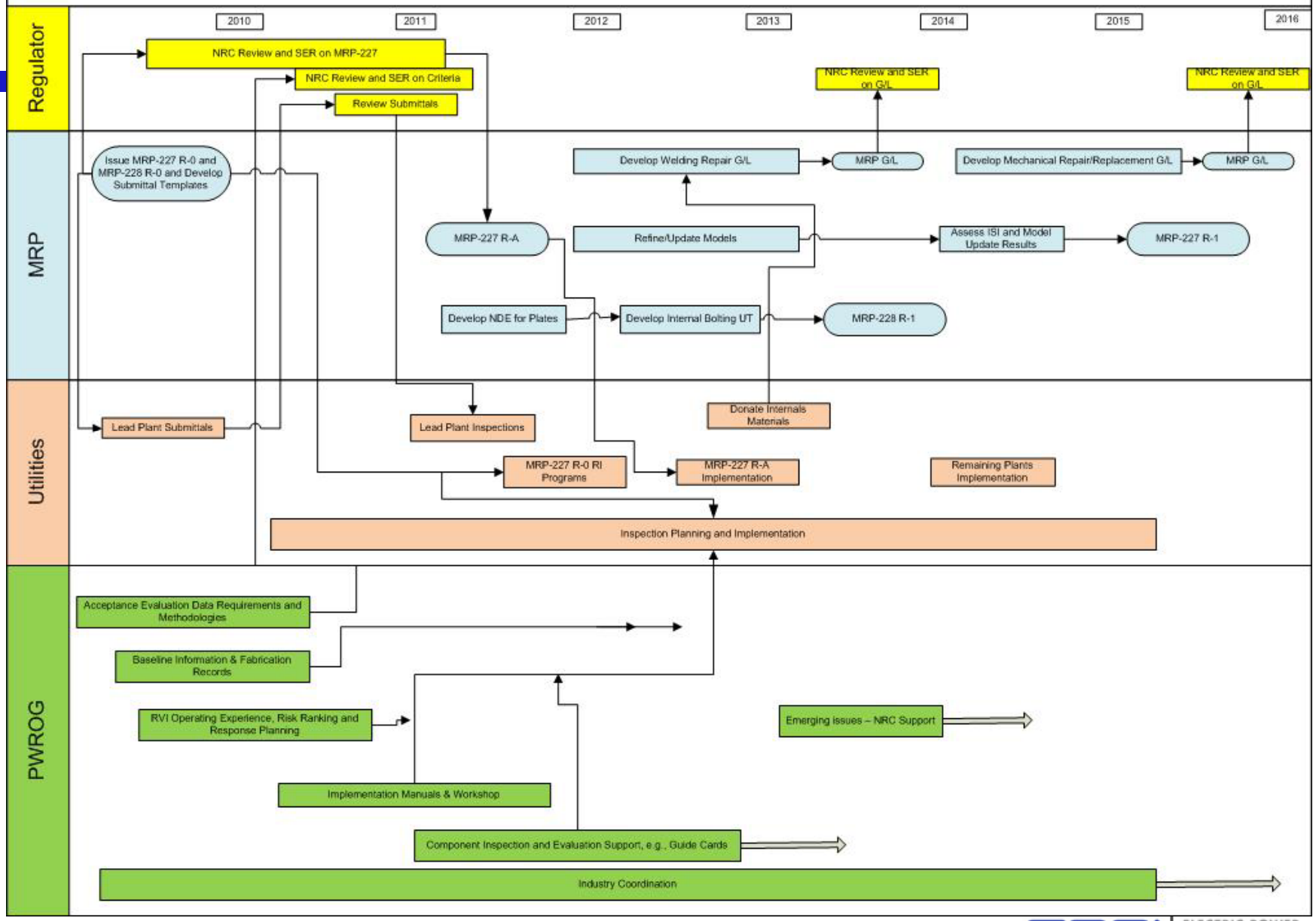
Reactor internals Management Roadmap



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