

# U.S. Nuclear Regulatory Commission Update

**Mark Thaggard**

Deputy Director

Division of Preparedness and Response  
Nuclear Security and Incident Response

# ***Accomplishments***

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- Endorsement of NEI 99-01, Revision 6
- Issued NTTF EP 9.3 Communication Safety Assessments for all sites and developed Tier 2 EP Near Term Task Force Recommendation 9.3 Implementation Plan
- Stakeholder alignment for Nuclear/Radiological Incident Annex rewrite, and long-term contamination cleanup criteria
- Supported efforts for agency and interagency After-Action Reports for Hurricane Sandy

# ***Priorities***

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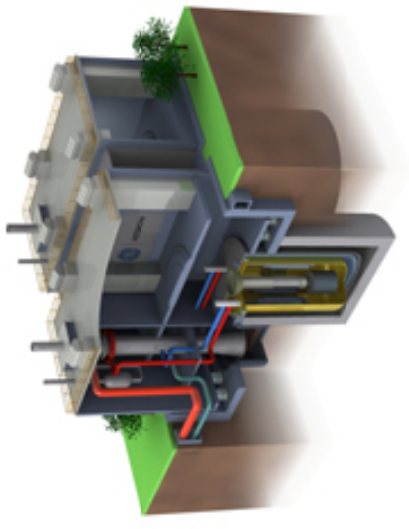
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- EP decommissioning for nuclear power plants
- NUREG-0654 revision
- HAB exercise implementation
- NTTF staffing assessments
- Tier 2 NTTF 9.3 EP items
- Completion of new operations center and subsequent training of response teams

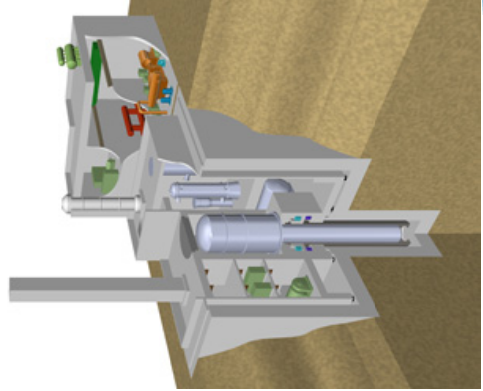
# Emergency Preparedness Activities

**Joseph D. Anderson**

**Chief, Operating Reactor Licensing and Outreach Branch  
Division of Preparedness and Response**



# Status of Small Modular Reactors



# ***SMR Regulatory Activities***

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- **SECY-11-0152 (October 28, 2011)**
  - “Scalable” EPZ / EP Framework
  - Modularity / Co-location Issues
- **RIS 2012-12 (December 28, 2012),**
  - Establish a predictable and consistent method for reviewing applications
- **Continued stakeholder engagement**

# Points of Contact

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# Status of New Reactor Licensing





## ***Completed Items***

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- **Vogtle Units 3 & 4**
  - COLs issued February 10, 2012
  - Construction in progress
- **Summer Units 2 & 3**
  - COLs issued March 30, 2012
  - Construction in progress

# ***Suspended Items***

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- Callaway
- Bellefonte 3 & 4
- Nine Mile Point
- River Bend
- Grand Gulf
- Victoria
- Harris



# ***In-Progress Items***

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- ABWR, South Texas Project, R-COL
- US-APWR, Comanche Peak, R-COL
- AP1000, Levy, S-COL
  - Lee, S-COL
  - Turkey Point, S-COL

## ***In-Progress Items (Cont'd)***

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- EPR, Calvert Cliffs, R-COL
  - Bell Bend, S-COL
- ESBWR, Fermi, R-COL
  - North Anna, S-COL
- PSEG, ESP
- Watts Bar Unit 2
- Bellefonte Unit 1

# Points of Contact

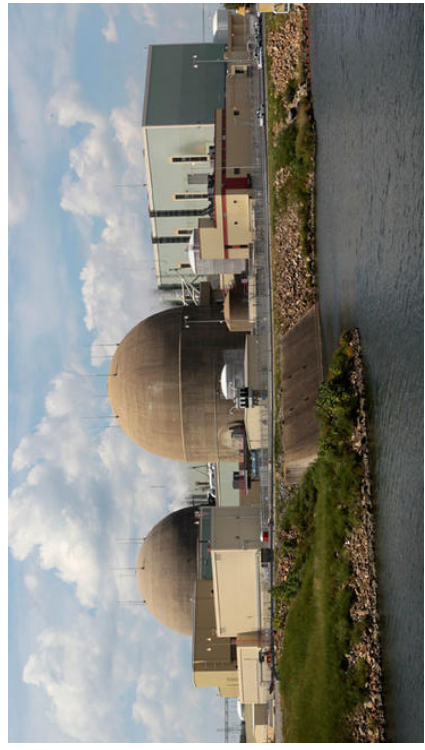
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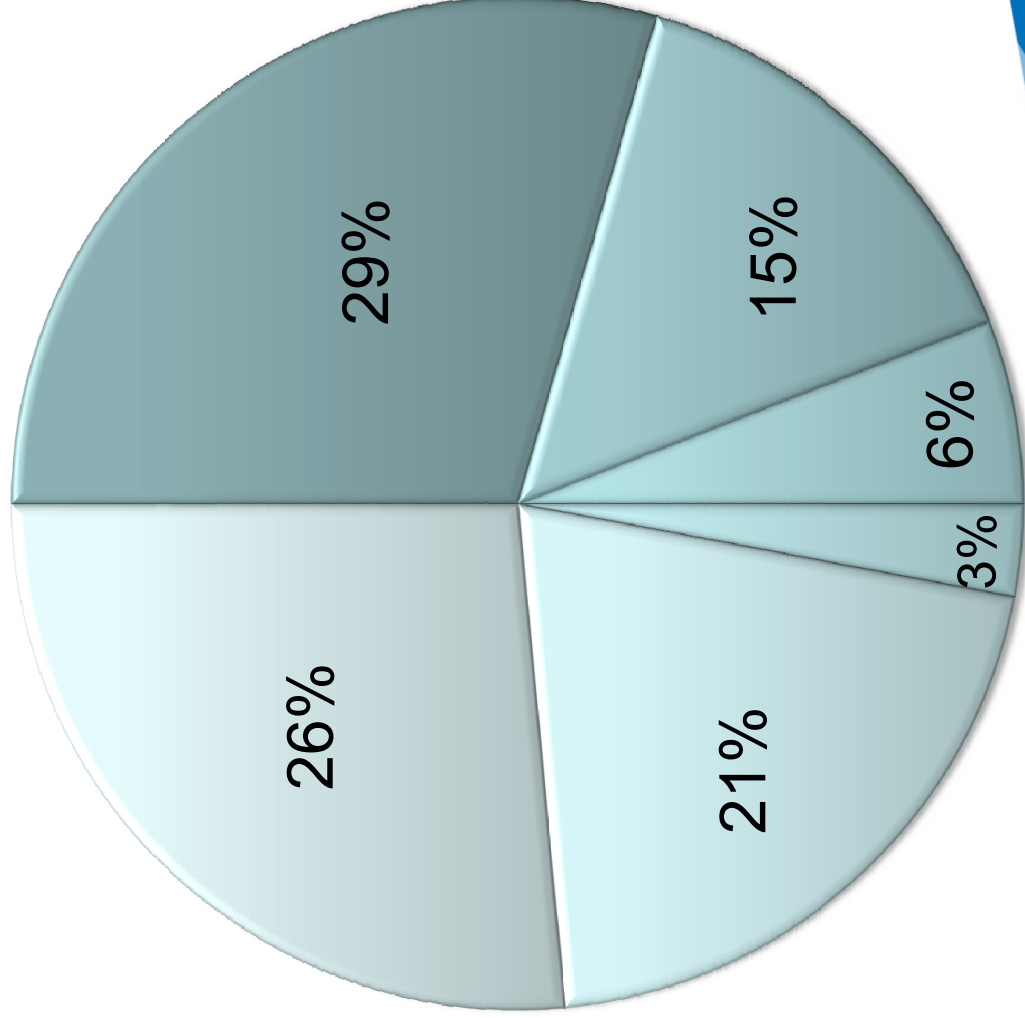
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# EP Licensing Submittals



# Licensing Actions Completed January 1, 2012 – May 17, 2013



- EAL Scheme Upgrades (10)
- Individual EAL Changes (5)
- Exercise Exemption Requests (2)
- Facility Changes (1)
- Decommissioning: EP Rule Exemptions (7)
- Fuel Facility/Materials (9)

# ***EP Rule Implementation***

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- ETE Update “completeness reviews”
- On-shift staffing analysis
- Incorporation of Bulletin 2005-02 Enhancements
  - Onsite protective measures
  - Alternate facility
  - Declaration timeliness
- Performance-based EOF



# Other EP Activities



# ***NEI 99-01, Revision 6***

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- Endorsed via letter (ML12346A463) March 29, 2013
  - Regulatory and Technical Analysis (ML13008A736)
  - Package (ML13091A209)
- Significant changes:
  - Spent fuel pool level events (NRC Order EA-12-051)
  - Simultaneous loss of all AC and Vital DC power sources
- EAL Scheme Change
  - 10 CFR 50, Appendix E (IV.B.2)

# ***Protective Action Guidelines***

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- EPA published draft PAG manual
  - for interim use
- Revised PAG manual includes guidance on long-term recovery
- Relocation
- Use of KI
- Comments requested on an appropriate water PAG

# ***EP Decommissioning***

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- EP regulations do not distinguish between operating reactors and decommissioning nuclear power plants (*spent fuel stored in Spent Fuel Pools*)
  - Exemption process
- Historically: Ability to exceed EPA PAGS
  - 10 CFR 50.54(d): Initial fuel load / low power testing
- Proposed process moving forward
  - Existing precedence (exemptions granted)
  - Previously proposed rulemaking
  - Informed by recent studies

# ***Event Reportability***

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- NRC revised NUREG-1022
- 10 CFR 50.72(b)(3)(xiii), “Loss of Emergency Preparedness Capabilities”
  - Emergency assessment
  - Offsite response
  - Offsite communications
- Additional issues have arisen since publication
- NEI 13-01, “Reportability Action Levels”

# Contact Information

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# Incident Response Activities

Jason Kozal

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Division of Preparedness and Response



# NRC Participation in HAB

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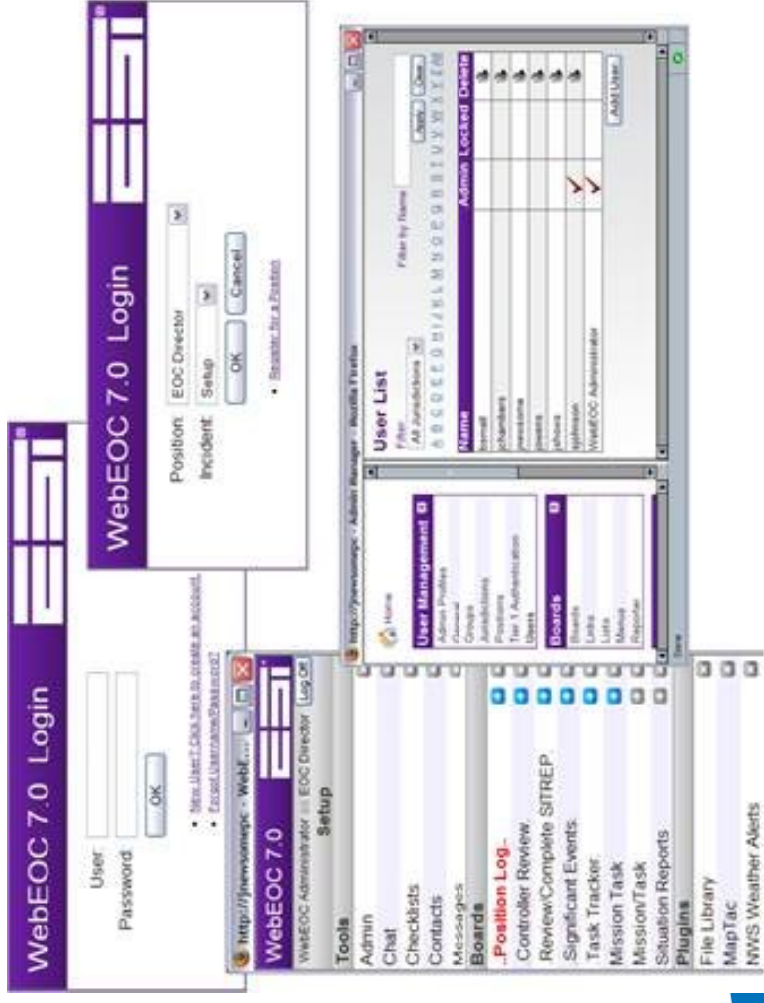
How does the NRC  
Participate in an  
Exercise?





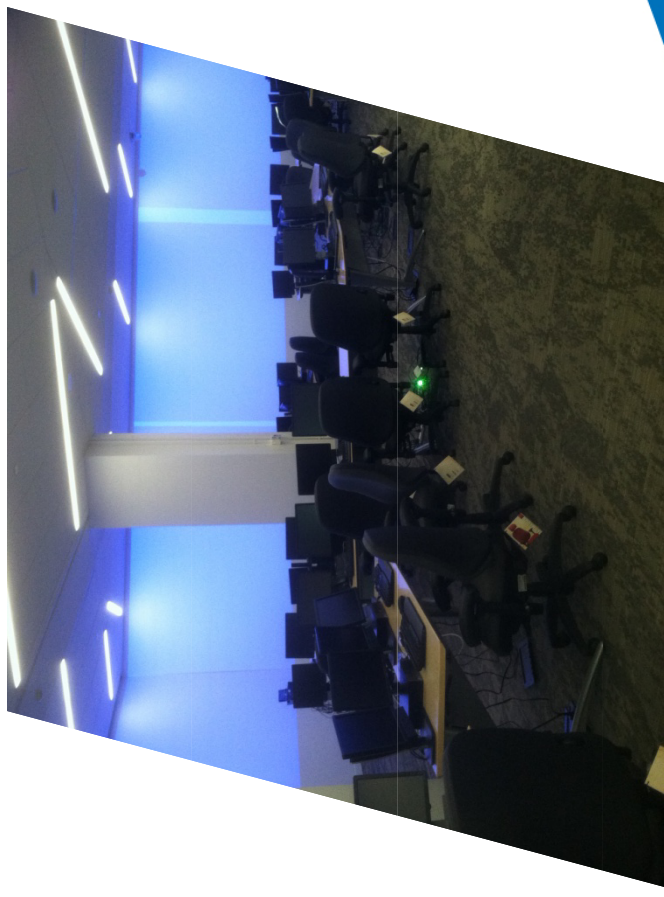
# WebEOC

- Fully implemented at NRC HQ and regional IRCs
- WebFusion server hosted by NRC
- Potential uses



# New NRC HQ Operations Center

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# ***Full Scale NPP Exercise***

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- Exercise to be multi-day
- Full FRMAC participation
- Objectives
  - Recovery
  - Exercise new PAGS

# ***Contact Information***

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