

# **U.S. Nuclear Regulatory Commission Update**

**Robert Lewis, Director**

**Division of Preparedness and Response  
Office of Nuclear Security and Incident Response**

# ***Accomplishments***

- SECY papers completed for emergency preparedness (EP) decommissioning exemptions at four sites
- 27 HAB exercises inspected and lessons learned completed during the process
- Completed all communication and staffing submittals for the Fukushima Near Term Task Force rulemaking efforts
- Completed and issued Fermi 2 combined license
- Small modular reactor EP - - Commission Paper

# ***Priorities***

- Maintain readiness of the response organization and headquarters operations center
- Enhance preparedness and response guidance, ensuring clear expectations with stakeholders, and compatibility with broader all-hazards approaches; especially for NUREG-0654 revisions, decommissioning emergency preparedness guidance, and incident response manual chapters/procedures
- Prepare for and conduct the full-federal, whole community exercise – Southern Exposure 2015

# **Emergency Preparedness Activities**

**Joseph Anderson**

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

# ***EP Licensing Activities***



- Reactor Decommissioning Status
- Operating Reactors
  - ERO Augmentation Submittals
  - Common (Fleet) EPlan Submittals
- New Reactors
- Small Modular Reactors

# Reactor Decommissioning



# ***Reactor Decommissioning***



- Kewaunee Power Station (**SECY-14-0066**)
  - SRM Issued: August 7, 2014
  - Exemption Granted: October 27, 2014 (*ML14261A223*)
  - LAR (PDEP/EAL) Approved: October 31, 2014 (*ML14279A482*)
- Crystal River, Unit 3 (**SECY-14-0118**)
  - SRM Issued: December 30, 2014
  - Exemption Granted: March 30, 2015 (*ML14183B338*)
  - LAR (PDEP/EAL) Approved: March 31, 2015 (*ML15027A209*)
- SONGS (**SECY-14-0144**)
  - SRM Issued: March 2, 2015

# ***Reactor Decommissioning***



## Vermont Yankee

- Pre-Exemption LAR (PDEP/EALs)
  - LAR Granted: February 4, 2015 (*ML14346A065*)
- Exemption: **SECY-14-0125**
  - SRM Issued: March 2, 2015

## **Emergency Response Data System (ERDS)**

- Appendix E to Part 50 (Section VI.2)
  - Not required if permanently or indefinitely shut down
  - Removal under 50.54(q)
- NRC Memorandum of Understanding with States
  - Provide ERDS feed in support of protective action decision-making

# ***Reactor Decommissioning***



## NSIR/DPR-ISG-02, “Emergency Planning Exemption Requests for Decommissioning Power Plants”

- Purpose
- Status: Publicly Available (ML14106A057)

<http://www.nrc.gov/reading-rm/doc-collections/isg/emerg-planning-npp.html>

# ***Reactor Decommissioning***

## Future Focus / Activities:

- **Oyster Creek (2019)**
- Integrated Decommissioning Rulemaking
- NEI EP Decommissioning Transition Task Force
  - Proposed Emergency Plan Template for Independent Spent Fuel Storage Installations

# Operating Reactor Licensing



# ***ERO Augmentation Submittals***



## NUREG-0654/FEMA-REP-1, Table B-1

- Planning Basis
  - No single specific accident sequence
- Initial accident response in key functional areas
  - On-Shift Staffing
- Timely augmentation of response capabilities
  - 30 and 60 minute responders

# ***ERO Augmentation Submittals***



- NSIR/DPR-ISG-01
  - Provides accident or event scenarios to be used in **on-shift staffing** analysis
- NEI 10-05
  - No competing priorities (on-shift staffing)
  - Does not provide a justification for timing extension or elimination of **function/capability**
- Opportunity:
  - Proposed Revision 2 to NUREG/FEMA-REP-1

# ***Emergency Plan Submittals***

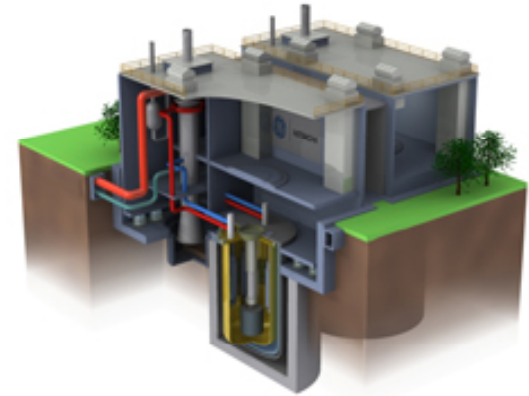
- Re-Baselining or Combining into Common (Fleet) Emergency Plan
  - Regulatory Basis for Review?
  - Possible Unintended Consequences
  - Consideration of Existing License Commitments
  - Review Against Current Standards/Guidance

# New Reactor Licensing

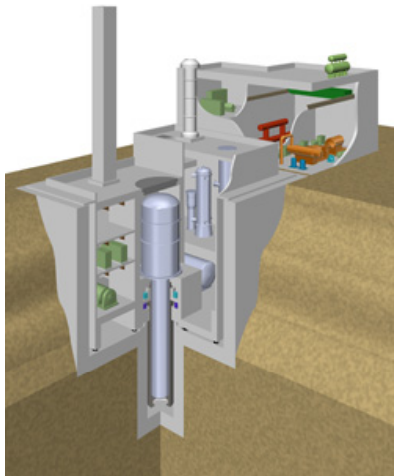


# ***EP Licensing***

- Vogtle and Summer (AP1000)
- Watts Bar
- Design Certifications
- Early Site Permits (PSEG)
- Combined Operating License applications
- Mo-99 Production Facilities
- Anticipated Future Applications



# Small Modular Reactors



# ***EP Licensing: SMR Policy Issues***



- “Right Sized” Emergency Preparedness Program
- NEI White Paper
  - December 23, 2013-White Paper on EPZ sizing methodology provided to the NRC
  - April 8, 2014-NEI and NRC held public meeting to exchange ideas and receive public comments
- TVA Early Site Permit Application for SMRs
  - May 5, 2015 public meeting, TVA discussed intent to propose both a site boundary and 2-mile EPZ to be bounding for all SMR designs
- NRC staff has prepared a policy paper for Commission decision on SMR EP
  - Due to Commission June 3 2015

# **Incident Response Activities**

**Paul Peduzzi, Chief  
Coordination Branch  
Division of Preparedness and Response**

# SOUTHERN EXPOSURE 15



**FEMA**



# Participating Organizations

Federal Agencies	State/Local Agencies/Organizations	Non-Governmental Organizations
A-Team	SC Department of Agriculture	American Red Cross*
DHHS	Chesterfield County	ANI*
DHHS-NIH/NIEHS	Clemson Cooperative Extension Service	Carolinas Hospital
DOE	Clemson Livestock-Poultry Health	Duke Energy/HB Robinson Plant
DOE RAP	Darlington County	INPO
DOE-ESF12	Dillon County	McLeod Regional Medical Center
DOE-FRMAC	Florence County	NEI
DOI	Lee County	The Salvation Army*
DOL-OSHA	Marion County	
DOT	Marlboro County	
EPA	SC Department of Health and Environmental Control	
FDA	SC Department of Natural Resources*	
FEMA	SC Department of Social Services*	
NRC	SC Department of Transportation*	
NRI TF	SC Emergency Management Division	*Denotes agencies/organizations that do not have agency-specific objectives but will be participating in the exercise in accordance with the exercise objectives
USDA	SC Forestry Commission*	
VA-OEM	SC Law Enforcement Division*	
White House	SC National Guard WMD Civil Support Team*	
	Sumter County	

# ***Southern Exposure Executive Steering Group***

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Hampton Hart (Chair)  
FEMA National Exercise Division

Dr. Dan Blumenthal  
DOE Exercise Director

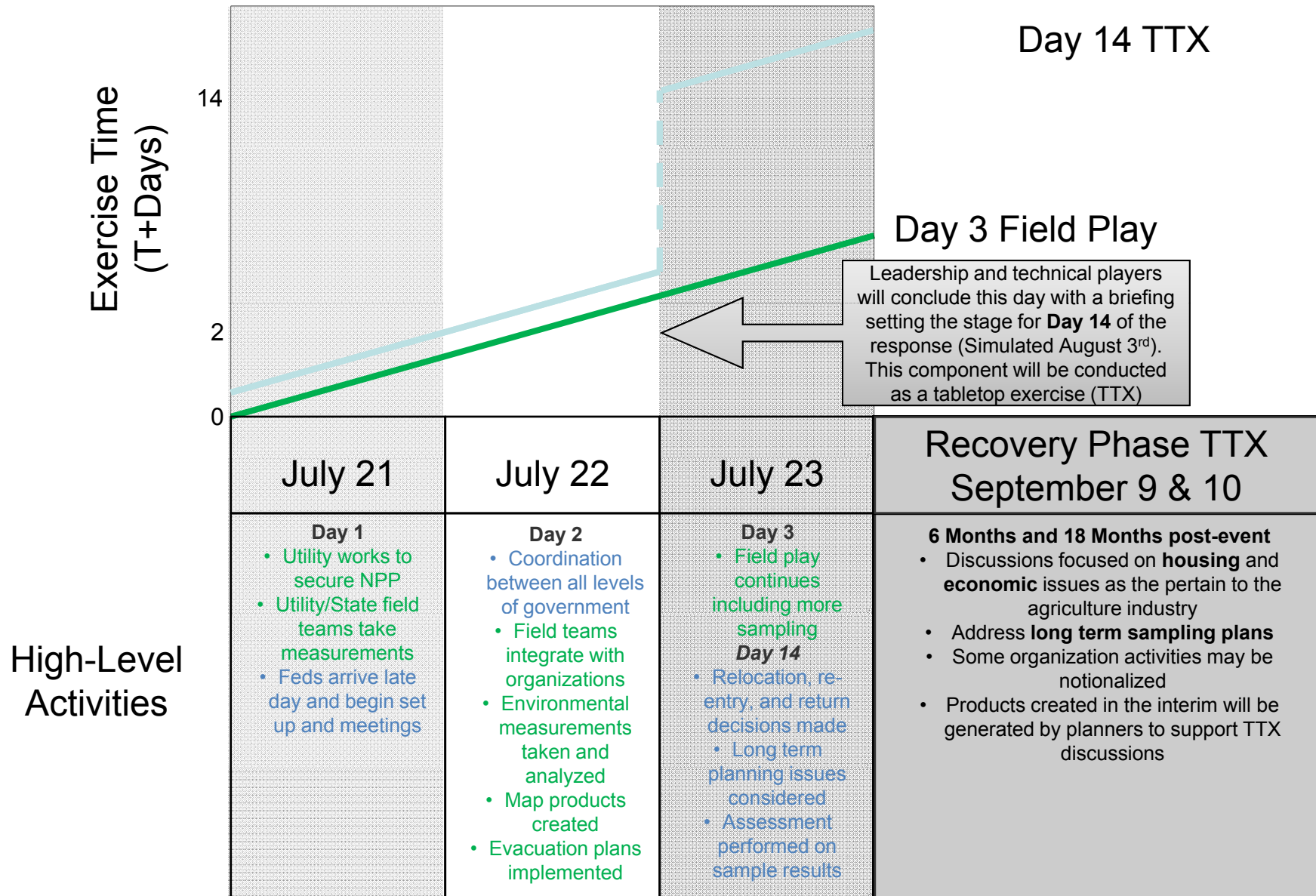
Patti Gardner  
FEMA Exercise Director

Tony Pilo  
Licensee Exercise Director

Sally Billings  
NRC Exercise Director

Lee Jackson  
SCEMD Exercise Director

# Scenario Course of Action



# WebEOC

- The NRC uses WebEOC for coordinating event information, task tracking, and team management
- Primarily used internally within NRC; sharing through WebFusion
  - Utilities
    - INPO 13-10
    - NRC connection through INPO
  - State/Local
    - Working with CRCPD to promote consistency
  - Federal

# ***RASCAL v4.3.1***

- Newest minor revision released in February 2015
  - Fixes minor bugs
  - Addresses default 2-hour spent fuel fire time assumption
- Radiation Protection Computer Code Analysis and Maintenance Program (RAMP)
  - Requires annual membership or single purchase for utilities
  - <https://www.usnrc-ramp.com/>

# Thank You

