



## **NRC Update**

**FEMA Region VII  
Radiological Assistance Committee (RAC) Meeting  
March 24-25, 2009**

**Joseph D. Anderson, Chief  
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US Nuclear Regulatory Commission**

# Proposed EP Rulemaking

## EP Rulemaking Areas

#	RULEMAKING TOPIC
1	On-Shift Multiple Responsibilities
2	Emergency Action Levels for Hostile Action Events
3	ERO Augmentation at Alternative Facility
4	Licensee Coordination with Offsite Response Organizations
5	Protective Actions for Onsite Personnel
6	Challenging Drills and Exercises
7	Alert and Notification System Backup Means
8	Emergency Classification Timeliness
9	Consolidated Emergency Operations Facility (Performance-Based Approach)
10	Evacuation Time Estimate Updating
11	Emergency Plan Change Process
12	Removal of TMI Action Items

# Questions?

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# Update to NUREG/0654/FEMA-REP-1 Supplement 3

## Update to **NUREG/0654/FEMA-REP-1 Supp. 3**

### Why are we updating Supp. 3?

- Commission direction
- Investigate if the use of alternative protective actions can reduce public dose during severe accidents

## Update to **NUREG/0654/FEMA-REP-1 Supp. 3**

### How did we evaluate?

#### ***NUREG/CR-6953: Review of NUREG-0654, Supplement 3, “Criteria for Protective Action Recommendations for Severe Accidents”***

- Sandia National Labs conducted:
  - **Volume 1:** Protective Action Recommendation (PAR) Study, Published Dec. 2007
  - **Volume 2:** Focus Groups & Telephone Survey, Published Oct. 2008

## **Alternatives considered?**

- Shelter in place for various times
  - Currently allowable, but limited use
- Preferred sheltering for various times
  - Large public buildings, etc.
- Lateral evacuation
  - Crosswind, using roads to move laterally
- Staged evacuation
  - Evacuation nearby, initially shelter others

## What were the results?

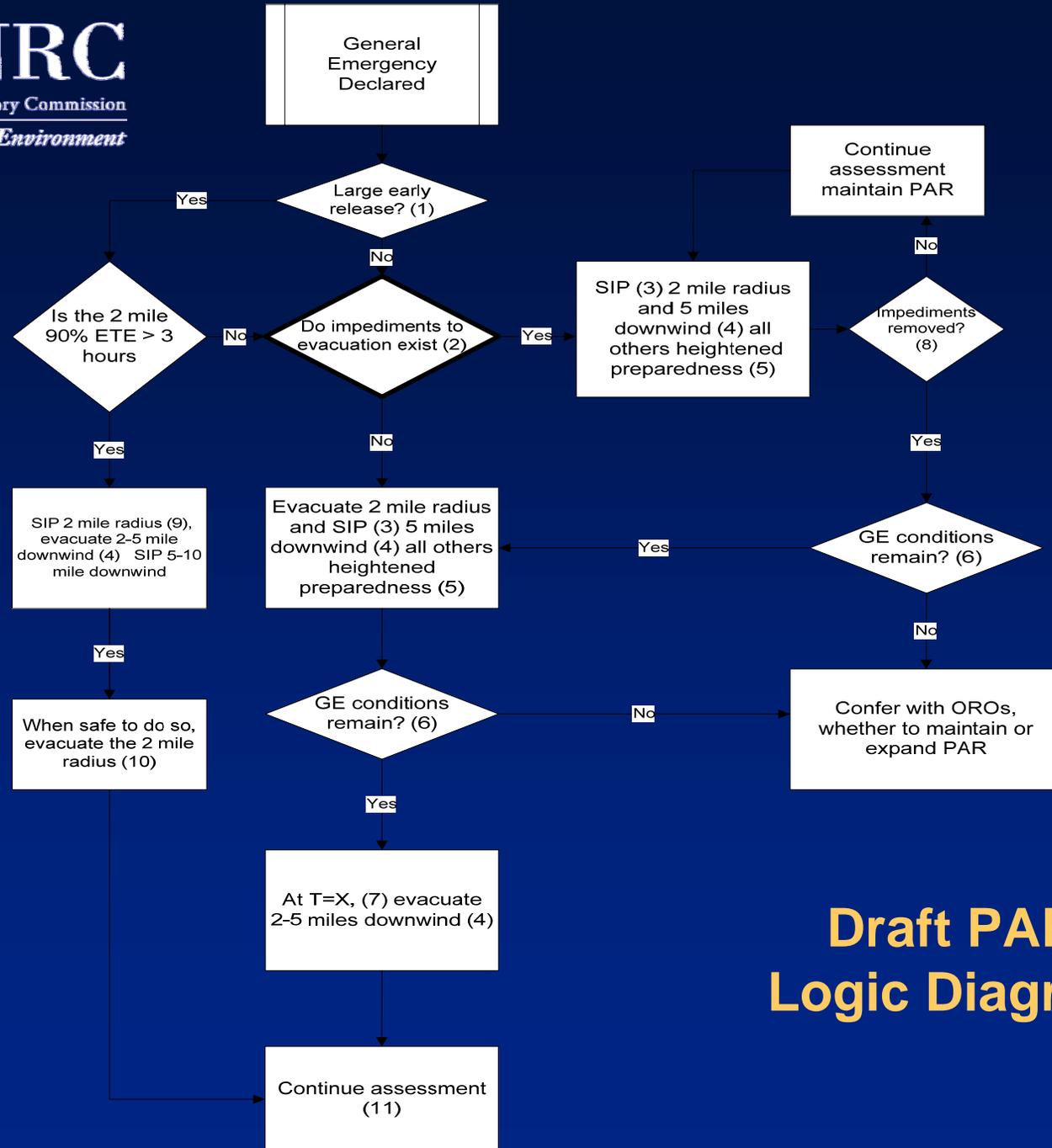
- Evacuation remains major element
- Consider staged evacuation
- Shelter in place followed by evacuation is more protective than standard PAR for large early release at sites with longer evacuation times

## What did we learn?

- People will implement protective actions when asked
- Message affects rate of compliance
- Emergency responders will report for duty

### What are we doing with the results?

- Update Supplement 3 to NUREG-0654/  
FEMA-REP-1
  - Preliminary Draft of PAR Logic Diagram
    - Gather stakeholder feedback
    - Align with FEMA
  - Formal review and approval process
  - Issue guidance (planned for 2010)



## Draft PAR Logic Diagram

# Questions?

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<http://www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6953/>

**Open Forum** (afternoon of Thursday, April 24)

**Hostile Action-Based EP Drills: “Improving Coordinated Stakeholder Response Through Discussions of Preparation Techniques and Key Observations”**

# Hostile Action Drill/Exercise Requirements and Initiatives

<u>TOPIC</u>	<u>FOF</u>	<u>IPCE</u>	<u>HABD</u>
Regulatory Requirement	Yes	None	Yes (Rule pending)
Exercise Planning	60 days notice	Scheduled	Scheduled (cycle)
Mock Adversary Force	Yes	Yes	No
Safeguards Information	Yes	Yes	No
<u>Licensee Participants:</u>			
• Operations	Yes (limited)	No	Yes
• Security Force	Yes	Yes (limited)	Yes (limited)
• ERO	No	No	Yes
<u>Offsite Participants:</u>			
• Law Enforcement	No	Yes (tactical)	X (non-tactical)
• Fire/Medical Services	No	No	Yes
• ICP/UC (ICS)	No	X (Tactical)	Yes
Communication Interfaces	Yes (onsite)	Yes (Sec/Law Enf.)	Yes

## Public Information Activities

- Proposed NUREG/CR, “Joint Information Centers and Communication of Radiological Risks”
  - Dr. Vincent Covello (Center for Risk Communications)



# Public Information Activities

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# NRC Incident Response Activities

## Technology Initiatives

- Web EOC
- ERDS
- e-Library

# NRC Incident Response Activities

## Generic Communications

- National Response Framework Information Notice (IN)
- Draft Regulatory Issue Summary (RIS):  
“Communications between the NRC and Reactor Licensees during Emergencies and Significant Incidents”

# Questions?