



NRC Update

FEMA Region V
Annual REP Scheduling Meeting
February 4, 2009

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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 investigate?

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

What alternative recommendations did we consider?

- 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?

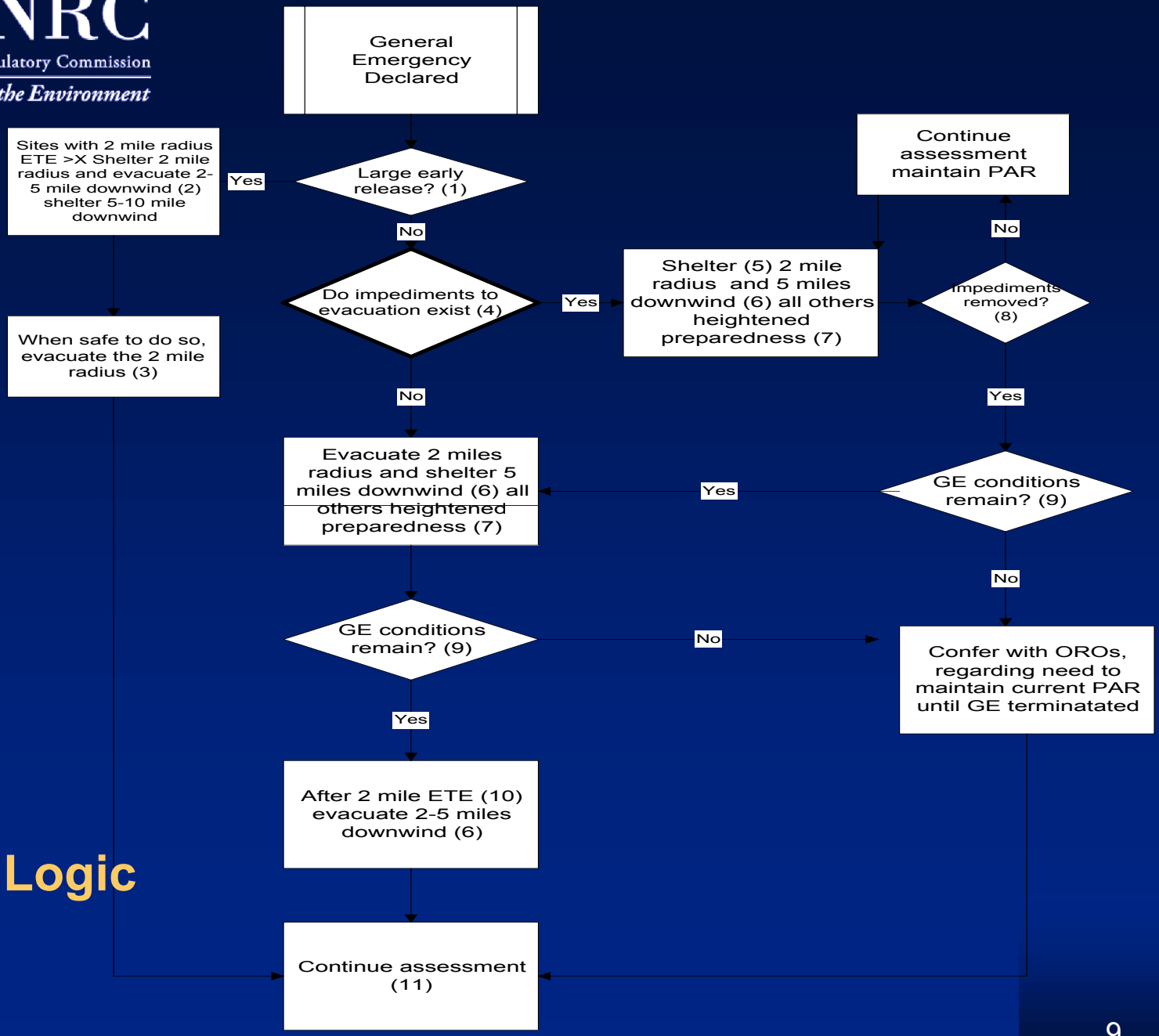
- Evacuation remains major element
- Consider staged evacuation
- Shelter in place followed by evacuation is more protective than standard PAR for large early release at sites with longer evacuation times

What did we learn from Focus Groups and the nationwide Random Telephone Survey?

- 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 to NUREG/0654/FEMA-REP-1 Supp. 3
 - Part of EP Rulemaking package
 - Draft PAR Logic Diagram
 - Gather stakeholder feedback
 - Align with FEMA
 - Formal review and approval process
 - Issue Supp. 3 guidance (planned for 2010)



Draft PAR Logic Diagram

Questions????

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