



#### **Nader Mamish, Director**

Emergency Preparedness Directorate Division of Preparedness and Response Office of Nuclear Security and Incident Response

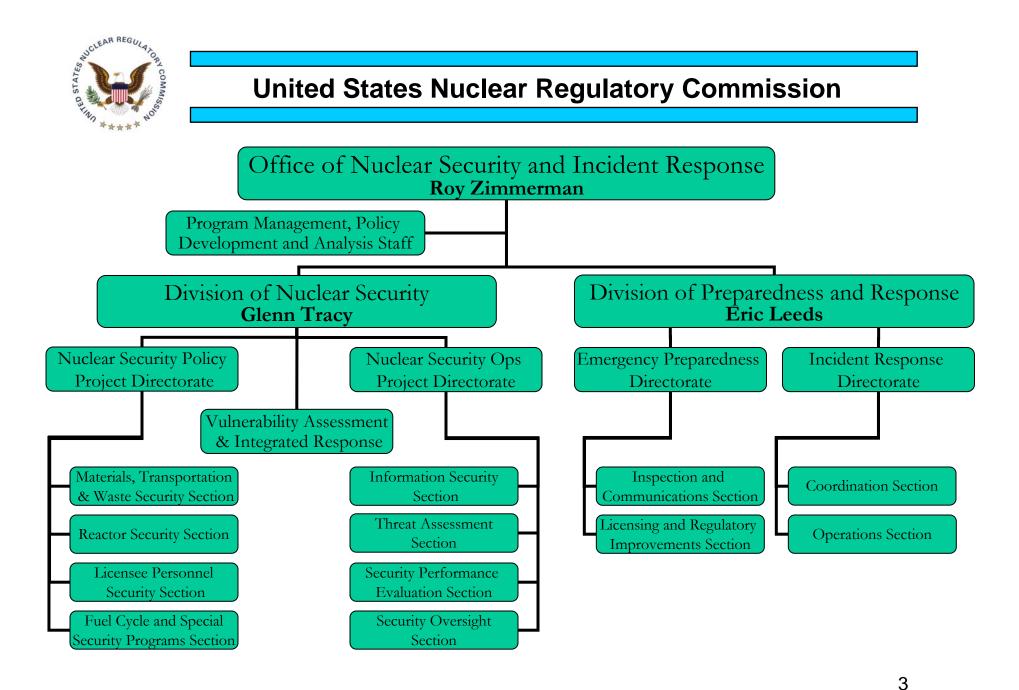
National Radiological Emergency Preparedness Conference Harrisburg, Pennsylvania

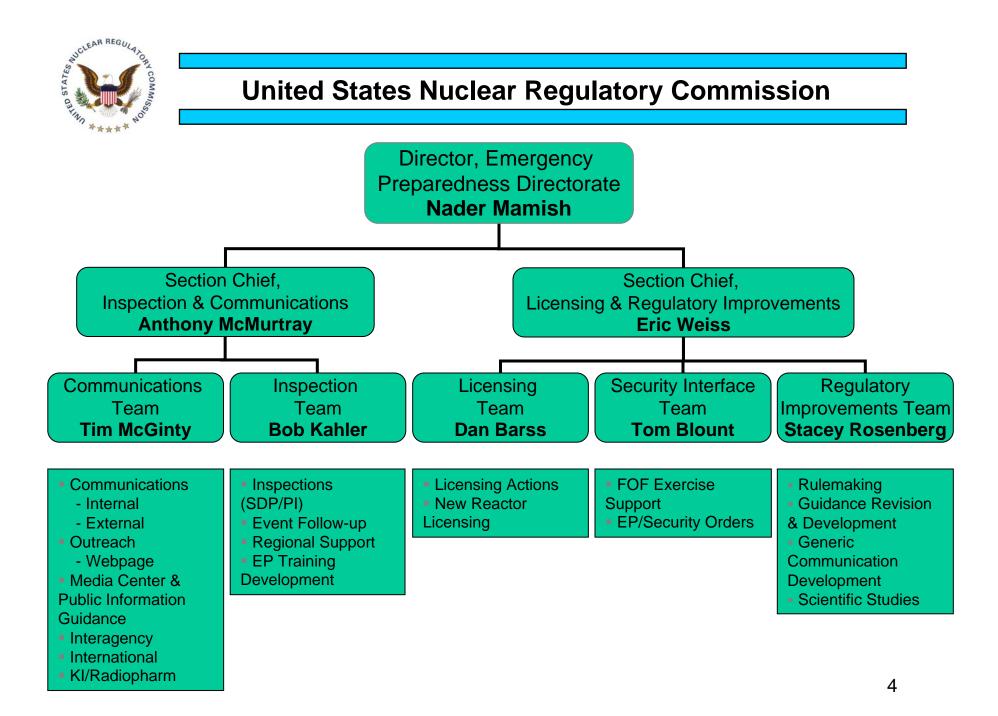
April 12, 2005

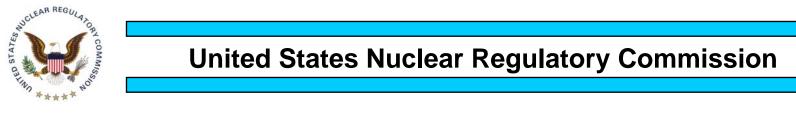


#### NRC Emergency Planning, Preparedness & Response

- NRC is a Safety, Security & Emergency Preparedness (EP) Organization
- Emergency Preparedness Directorate (EPD) Created to Enhance NRC Focus on Integration of Safety, Security & EP
- EPD Relocated to Nuclear Security & Incident Response (NSIR) to Better Coordinate with Response & Security Activities

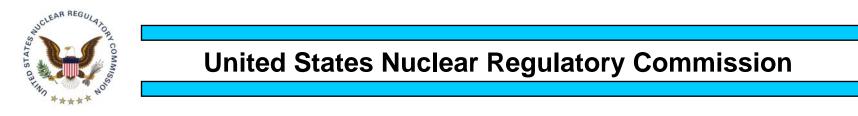






#### **Security Interface**

- Post-9/11 Changes & Enhancements
  - Onsite Changes
  - Evaluation of EP Planning Basis
  - Force-on-Force Exercises
  - Consideration of Aircraft Threat
  - EP/Security Communications



#### **EP Post-9/11 Environment**

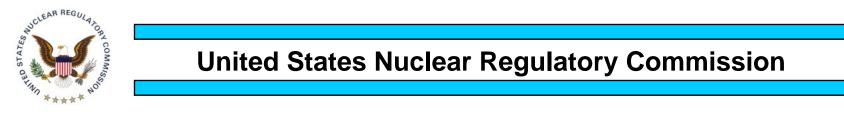
- NRC Recognizes Things Have Changed in Current Threat Environment
- Challenges for EP in Post-9/11 World
  - Supplemented Design Basis Threat
  - Coordination Among Federal Agencies (Including Dept. of Homeland Security & State DHS offices)
  - National Response Plan



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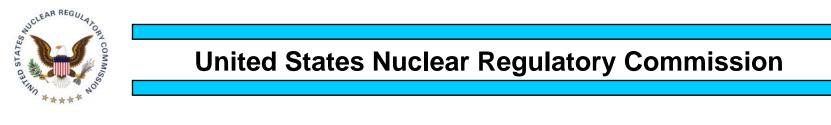
#### **Onsite Changes**

- Alternative Facilities
- Onsite Evacuation Routes
- Onsite Protective Actions
- Staffing Review



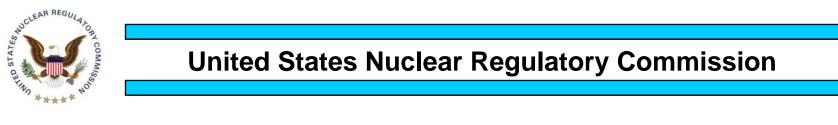
#### **Evaluation of EP Planning Basis**

- EP Planning Basis for Nuclear Power Reactors Remains Valid
- Implementation Can Be Enhanced



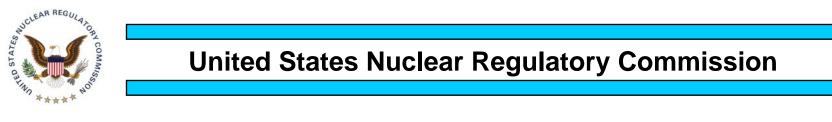
#### **Force-on-Force Exercises**

- NRC Conducting Force-on-Force Exercises With EP Participation
  - Tests EP-Operations-Security Interface
  - Exercises Conducted Every 3 Years
  - Lessons Learned by Site EP Programs



#### Exercises

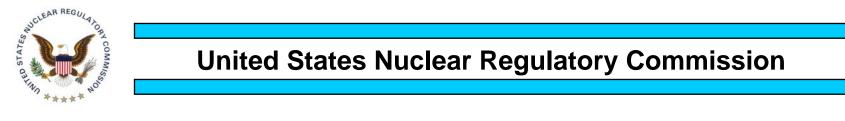
- <u>Security Exercises</u> With EP Component (FOF)
  - Significant, But Less Extensive Challenges to EP Interface
  - Detailed Demonstration & Rigorous Analysis of Security Challenges



# Exercises (cont'd)

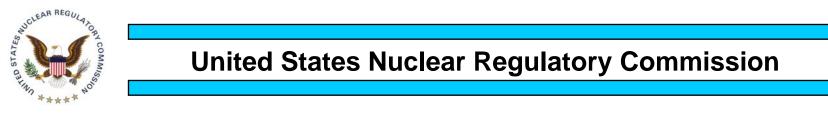
#### EP Exercises

- Detailed Demonstration & Rigorous Analysis of EP-Operations Challenges Involving Offsite Response Organization (ORO) Participation
- Security Interface Limited; Terrorism Component Not Required



#### **Consideration of Aircraft Threat**

- NRC Communications
- Operational Issues
- Personnel Safety Issues



### **EP Considerations**

- Emergency Declarations
- Timing of Events Relative to Notification
- Recovery From Potential Plant Damage
- Onsite Protective Actions



# Enhanced Security Emergency Action Levels (EALs)

- Current EAL's Based on Radiological Consequences
- Considering EAL Changes Based on Confirmed Threats
- Current EALs (with exception of securityrelated EALs) Will Not Be Changed
- Enhanced Security EALs Enable Licensees to Inform States More Quickly of a Threat



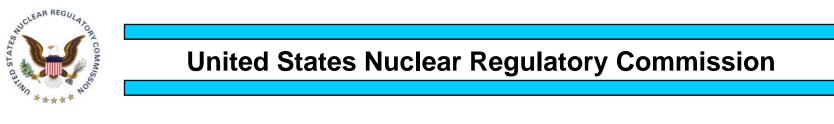
#### **Communications**

- Division of Preparedness & Response (DPR) Outreach Team
  - Enhance Communications & Interactions With Stakeholders
  - Improve Working Relationships & Connectivity Through Outreach
  - Increase Awareness of Programs, Resources & Activities
  - Communicate NRC's Roles, Responsibilities & Capabilities in Emergency Preparedness & Incident Response



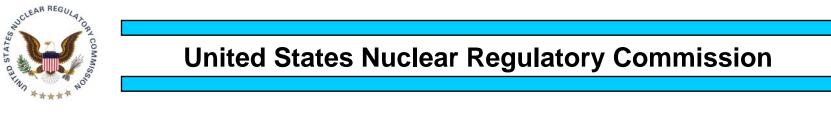
#### **Communications**

- Categories of Outreach
  - Pre/Post-Exercise Outreach
  - Meetings With Government Agencies
  - Meetings With Industry & Licensees
  - Workshops & Conferences
  - Public Meetings
  - Webpage
  - DPR Brochure & Other Public Information Materials
  - Media Center & Public Information Guidance



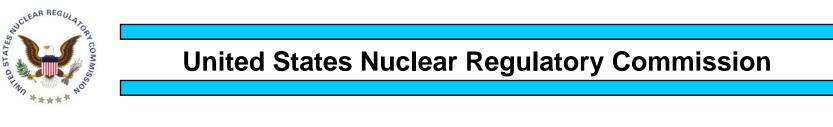
#### **Inspection**

- Programmatic Oversight
- Reactor Oversight Process (ROP)
  - Significance Determination Process (SDP)
  - Performance Indicators (PI)
  - Baseline Inspections
- Event Follow-Up



#### **Inspection**

- Restart Criteria & Guidance
- Support to NRC Regions in Observing & Evaluating Exercises
- Programmatic Support to NRC Regions for Inspection Issues
- EP Training Development



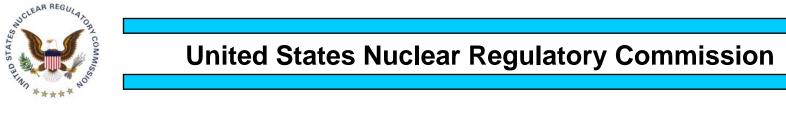
#### **Licensing**

- Operating Reactor Licensing Actions
  - 11 Emergency Action Level (EAL) Change Packages Under Review
  - 2 Combined Emergency Operations Facilities Applications Under Review
  - Shift Staffing Changes
  - Non-Power Reactor EP Changes



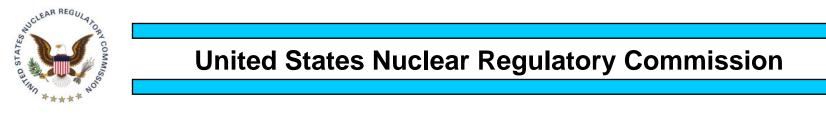
## **Licensing**

- New Reactor Licensing
  - Early Site Permits (ESPs)
    - North Anna, Clinton, Grand Gulf
    - New Applications Expected in 2006
  - Design Certification
    - AP1000, ESBWR (June, 2005)
  - Combined License (COL) Applications
    - EP Inspections, Tests, Analyses & Acceptance Criteria (ITAAC)
    - COL Application Expected in 2007



#### **Regulatory Improvements**

- Top-to-Bottom Review of Emergency
  Preparedness Program
- Rulemaking
- Regulatory Guides
- Generic Communications
- NRC-Sponsored Sandia Studies



#### **NRC-Sponsored Sandia Studies**

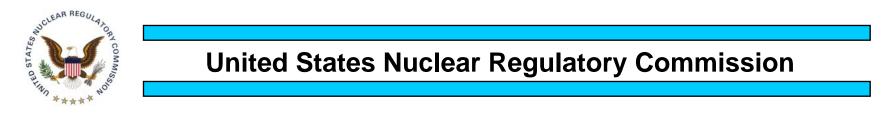
- NUREG/CR-6864, Identification and Analysis of Factors Affecting Emergency Evacuations, Vols. 1 & 2
- NUREG/CR-6863, Development of Evacuation Time Estimate Studies for Nuclear Power Plants
- Ongoing Study: Review of NUREG-0654, Supplement 3, 'Criteria for Protective Action Recommendations for Severe Accidents'



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# Protective Action Recommendation (PAR) Study

- Review of NRC PAR Guidance in NUREG-0654, Supplement 3
- Review Sheltering-in-Place
- Examine Innovative PAR Strategies
- Involve States/Local OROs in Evaluation
- 2-Year Project to Examine Technical Issues
- Changes May Be Recommended



#### Questions ...

### Comments

www.nrc.gov

www.nrc.gov/what-we-do/emerg-preparedness.html