



NRC Update

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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



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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



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Office of Nuclear Security and Incident Response Roy Zimmerman

Program Management, Policy
Development and Analysis Staff

Division of Nuclear Security Glenn Tracy

Nuclear Security Policy
Project Directorate

Nuclear Security Ops
Project Directorate

Vulnerability Assessment
& Integrated Response

Materials, Transportation
& Waste Security Section

Reactor Security Section

Licensee Personnel
Security Section

Fuel Cycle and Special
Security Programs Section

Information Security
Section

Threat Assessment
Section

Security Performance
Evaluation Section

Security Oversight
Section

Division of Preparedness and Response Eric Leeds

Emergency Preparedness
Directorate

Incident Response
Directorate

Inspection and
Communications Section

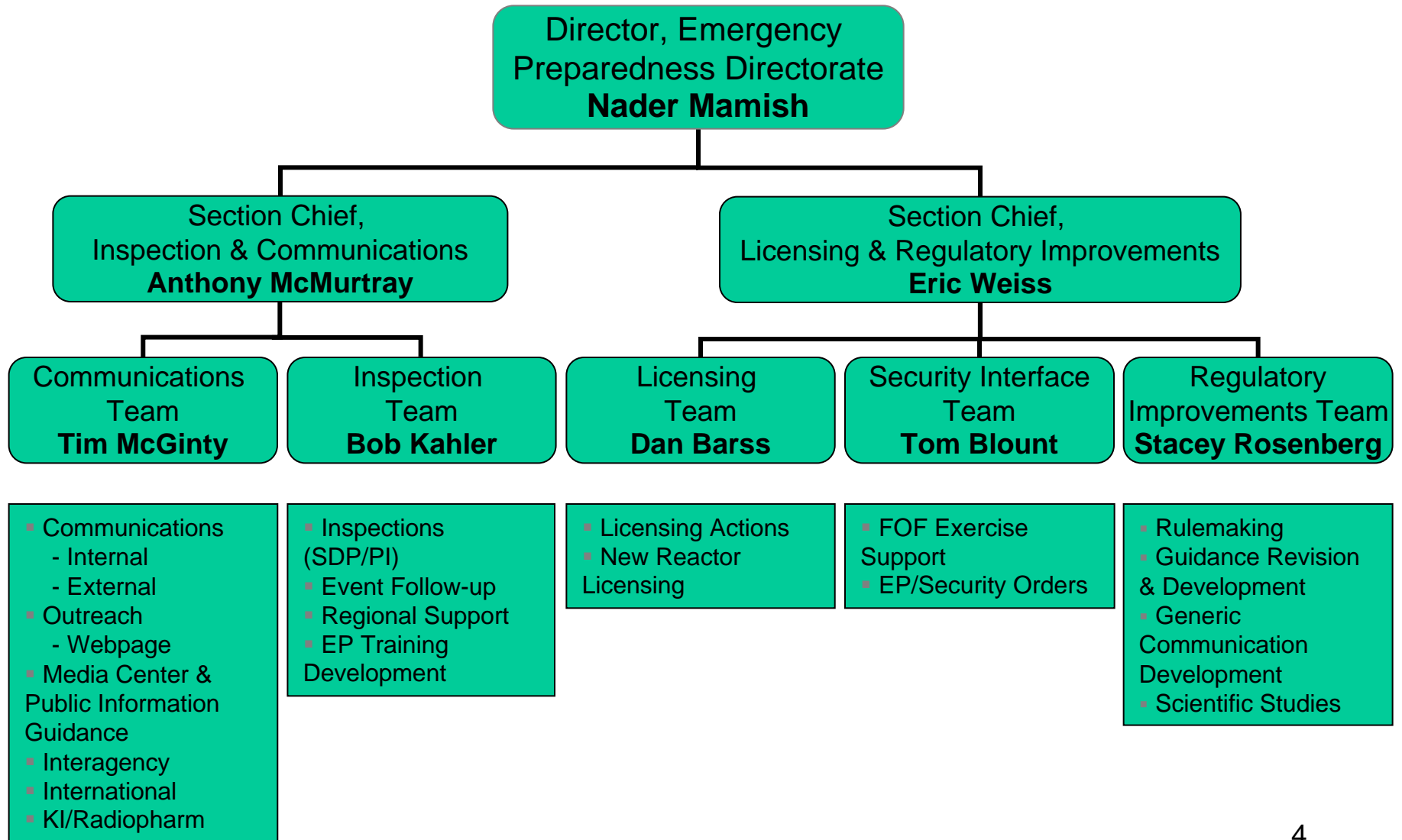
Licensing and Regulatory
Improvements Section

Coordination Section

Operations Section



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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**



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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**



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Evaluation of EP Planning Basis

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



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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**



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Exercises

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



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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**



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Consideration of Aircraft Threat

- **NRC Communications**
- **Operational Issues**
- **Personnel Safety Issues**



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EP Considerations

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



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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 security-related EALs) Will Not Be Changed
- Enhanced Security EALs Enable Licensees to Inform States More Quickly of a Threat



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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**



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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**



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Inspection

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



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Inspection

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



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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**



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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



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Regulatory Improvements

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



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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**



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Questions ...

Comments

www.nrc.gov

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