

# National Response Plan (NRP) and the Nuclear/Radiological Incident Annex

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# Purpose

- **Discuss NRP Base Plan**
- **Provide Summary of Key Operational Components of NRP**
- **Provide Overview of Nuclear/Radiological Incident Annex to NRP**



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# Mandate

***Homeland Security Act of 2002 & HSPD-5***  
**Require Development of National Response Plan (NRP)**

- **Single Comprehensive, National Approach**
- **Federal Coordination Structures / Mechanisms**
- **Direction for Incorporation of Existing Plans**
- **Consistent Approach to Managing Incidents**



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# Construction of the NRP

## Fully Incorporates

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- Federal Response Plan
- Domestic Terrorism Concept of Ops Plan
- Federal Radiological Emergency Response Plan
- Initial NRP
- Other national-level contingency plans



## NATIONAL RESPONSE PLAN

## Incorporates key INRP concepts

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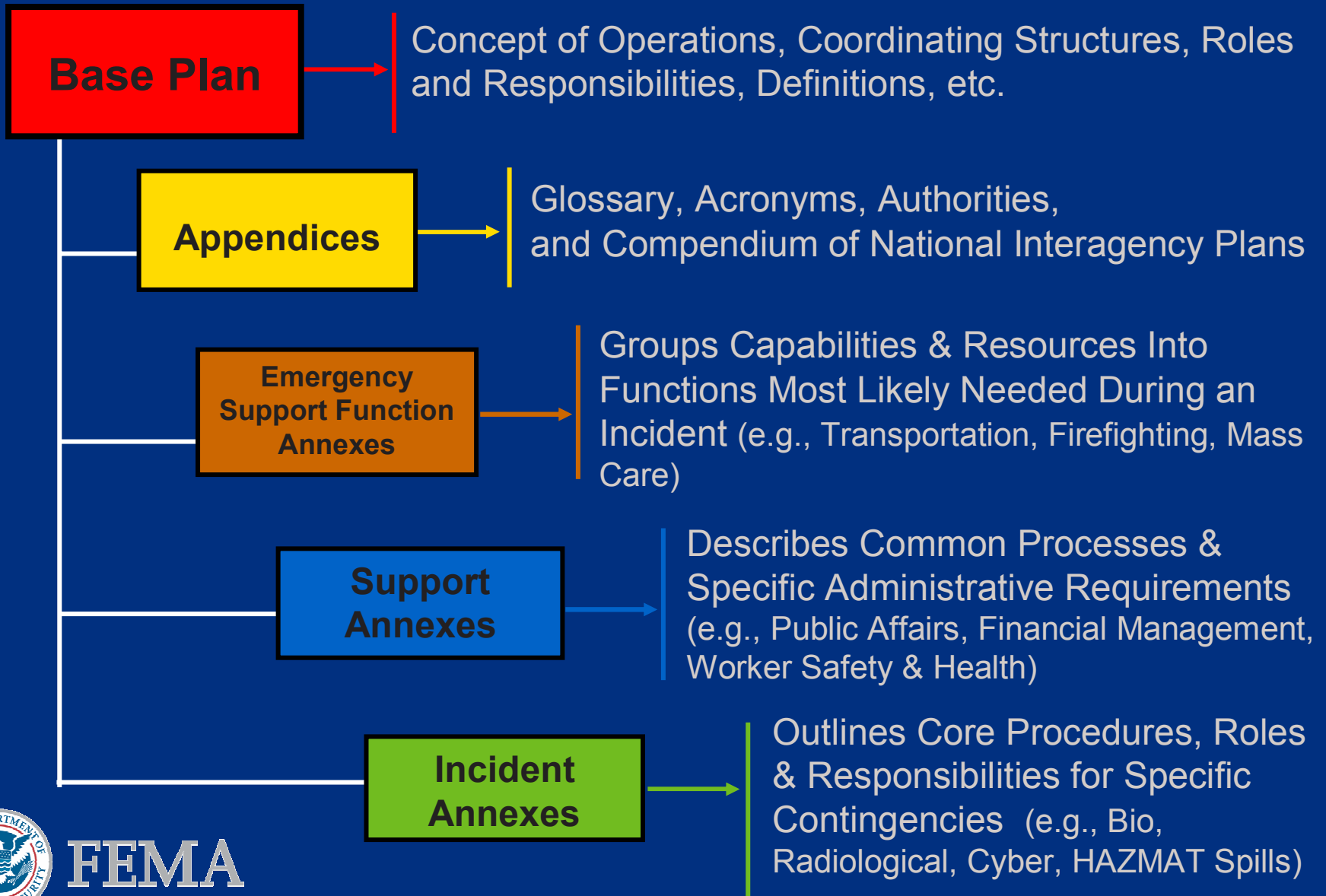
- Homeland Security Ops Center (HSOC)
- Interagency Incident Management Group (IIMG)
- Principal Federal Official (PFO)
- Joint Field Office (JFO)

Foundation: National Incident Management System (NIMS)



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# Organization of the NRP



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# Scope/Applicability

## Incidents of National Significance (HSPD-5) Criteria:

- **When Another Federal Department or Agency Has Requested DHS Assistance**
- **When State/Local Capabilities Are Overwhelmed & Federal Assistance Is Requested**
- **When an Incident Substantially Involves More Than One Federal Department/Agency**
- **When the Secretary Has Been Directed by the President to Assume Incident Management Responsibilities**



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# Concept of Operations

- **Incidents Handled at Lowest Possible Jurisdictional Level**
- **Consultation/Coordination With Other Departments / Agencies**
- **Multi-Agency Coordinating Structures Activated to Provide Standardized Approach for Implementing Federal Responsibilities**
- **Coordinating Structures Provide National Capability**



# Emergency Support Functions (ESFs)

- ESF 1: Transportation
- ESF 2: Communications
- ESF 3: Public Works & Engineering
- ESF 4: Firefighting
- **ESF 5: Emergency Management**
- **ESF 6: Mass Care, Housing & Human Services**
- ESF 7: Resource Support
- **ESF 8: Public Health & Medical Services**
- ESF 9: Urban Search & Rescue
- **ESF 10: Oil & Hazardous Materials**
- **ESF 11: Agriculture & Natural Resources**
- ESF 12: Energy
- **ESF 13: Public Safety & Security**
- **ESF 14: Long-term Community Recovery & Mitigation**
- **ESF 15: External Affairs**



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# Support Annexes

- Financial Management
- International Coordination
- Logistics Management
- Private Sector Coordination
- Public Affairs
- Science & Technology
- Tribal Relations
- Volunteer & Donations Management
- Worker Safety & Health



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# Incident Annexes

- **Biological Incident**
- **Catastrophic Incident**
- **Cyber Incident**
- **Food & Agriculture Incident**
- **Nuclear/Radiological Incident**
- **Oil & Hazardous Materials Incident**
- **Terrorism Incident Law Enforcement & Investigation**



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# NRP Roll-Out Strategy

- **National Announcement**
- **Federal Partner/Congressional Briefings**
- **Seminars & Briefings**
  - 6 intergovernmental/interagency seminars in key locations:
    - Miami, Chicago, Los Angeles, Seattle, New York, Washington DC
    - Briefings and workshops at other regularly scheduled conferences & meetings
- **Training**
  - Web-based training through FEMA/EMI
  - Distance learning through EENET Satellite broadcast
  - Interagency coordination of ongoing training



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# Nuclear/Radiological Incident Annex Overview

- Annex Replaces '96 Federal Radiological Emergency Response Plan (FRERP)
- Key Provisions of '96 FRERP Included in Annex
- Greater Emphasis on Response to Terrorist Incidents Involving Radioactive Materials (RDD, IND, etc.)
- Outlines Federal Agencies' Roles in Incidents of National Significance
- Outlines Federal Agencies' Roles in Other Radiological Incidents of "Lesser Severity" (Not Requiring DHS Coordination)



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# Scope

*...applies to nuclear/radiological incidents, including sabotage and terrorist incidents, involving the release or potential release of radioactive material that poses an actual or perceived hazard to public health, safety, national security, and/or the environment.*



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# Planning & Preparedness Structure

- **Federal Radiological Preparedness Coordinating Committee (FRPCC)**
  - National-Level Forum for Development & Coordination of Radiological Prevention & Preparedness Policies & Procedures
  - Interagency Body Consisting of Coordinating & Cooperating Agencies, Chaired by DHS-FEMA
- **Regional Assistance Committees (RACs)**
  - Primary Coordinating Structure at Federal-Regional Level in 9 FEMA Regions, Chaired by DHS-FEMA
  - Membership Mirrors FRPCC with Addition of State Emergency Management Representatives
  - Provides a Forum for Information-Sharing, Consultation, & Coordination of Federal Regional Awareness, Prevention, Preparedness, Response & Recovery Activities.



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# Operational Responsibilities

- **Department of Homeland Security (DHS)**
  - Overall Incident Manager for Incidents of National Significance
- **Coordinating Agencies**
  - Facilitate Nuclear/Radiological Aspects of Response in Support of DHS
  - Lead Federal Response to Nuclear/Radiological Incidents of Lesser Severity
- **Cooperating Agencies**
  - Provide Technical & Resource Support to DHS & Coordinating Agencies



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# Coordinating Agency

*...the Federal agency that owns, has custody of, authorizes, regulates, or is otherwise designated responsibility for the nuclear/radioactive material, facility, or activity involved in the incident.*



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# Coordinating Agency

- **Determined by Type of Incident/Ownership/Regulatory Authority**
  - Radiological Terrorism Incidents (e.g., RDD/IND or Radiological Exposure Device)
  - Nuclear Facilities
  - Transportation of Radioactive Materials
  - Space Vehicles Containing Radioactive Materials
  - Foreign, Unknown or Unlicensed Material
  - Nuclear Weapon Accident/Incident



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# Potential Coordinating Agencies

- Nuclear Regulatory Commission (NRC)
- Department of Energy (DOE)
- Department of Defense (DOD)
- National Aeronautics & Space Administration (NASA)
- Environmental Protection Agency (EPA)
- DHS - US Coast Guard (USCG)



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# Assignment of Coordinating Agencies

Type of Incident	Coordinating Agency
a. Radiological terrorism incidents (e.g. RDD/IND or Radiological Exposure Device): (1)Material or facilities owned or operated by DOD or DOE <b>(2)Material or facilities licensed by NRC or Agreement State</b> (3)All others	(1) DOD or DOE <b>(2) NRC</b> (3) DOE
b. Nuclear facilities: (1)Owned or operated by DOD or DOE <b>(2)Licensed by NRC or Agreement State</b> (3)Not licensed, owned, or operated by a Federal agency or an Agreement State, or currently or formerly licensed, but of which the owner/operator is not financially viable or is otherwise unable to respond	(1) DOD or DOE <b>(2) NRC</b> (3) EPA
c. Transportation of radioactive materials: (1)Materials shipped by or for DOD or DOE <b>(2)Shipment of NRC or Agreement State-licensed materials</b> (3)Shipment of materials in certain areas of the coastal zone that are not licensed or owned by a Federal agency or Agreement State (see USCG list of responsibilities for further explanation of “certain areas”) (4)All others	(1) DOD or DOE <b>(2) NRC</b> (3) DHS/USCG (4) EPA
d. Space vehicles containing radioactive materials: (1)Managed by NASA or DOD (2)Not managed by DOD or NASA impacting certain areas of the coastal zone (3)All others	(1) NASA or DOD (2) DHS/USCG (3) EPA
e. Foreign, unknown or unlicensed material: (1)Incidents involving foreign or unknown sources of radioactive material in certain areas of the coastal zone (2)All others	(1) DHS/USCG (2) EPA
f. Nuclear weapon accident/incident (based on custody at time of event)	DOD or DOE
g. Other types of incidents not otherwise addressed above	DHS designates



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# Response Coordination Functions\*

## DHS

- **Actions of Federal Agencies for Overall Response**
- **Release of Federal information to:**
  - **Public**
  - **Congress**
  - **White House**
- **Demobilization of Federal Assets**

\* For incidents below the threshold of Incidents of National Significance, Coordinating Agency performs these functions



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# Response Coordination Functions\* (cont'd)

## DHS & Coordinating Agency

- **Federal Activities Related to Radiological Aspects of Response**
- **Incident Security**
- **Technical Data (Collection, Analysis, Storage & Dissemination)**
- **Federal Protective Action Recommendations**



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# Protective Action Recommendations

- **Federal Protective Action Recommendations – Advise State/Local/Tribal Governments on Measures to Avoid or Reduce Exposure of the Public to Radiation From a Release of Radioactive Material:**
  - **Sheltering**
  - **Evacuating**
  - **KI Usage**
  - **Food Restrictions**
  - **Temporary Relocation**
  - **Permanent Resettlement**

<b>Incidents of National Significance</b>	DHS, in consultation with the coordinating agency, oversees the development of Federal Protective Action Recommendations and provides advice and assistance to State, tribal, and local governments.
<b>Other Radiological Incidents</b>	The coordinating agency, in consultation with the Advisory Team, develops and provides Protective Action Recommendations.
<b>Incidents of National Significance and any radiological event</b>	State, local, and tribal governments are responsible for implementing protective actions as they deem appropriate.



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# DHS & Coordinating Agency Response Functions

Response Function	Incidents of National Significance	Other Radiological Incidents
a. Coordinate actions of Federal agencies related to the overall response.	DHS	Coordinating agency
b. Coordinate Federal activities related to response and recovery of the radiological aspects of an incident.	DHS and coordinating agency	Coordinating Agency
c. Coordinate incident security.	DHS and coordinating agency	Coordinating Agency
d. Ensure coordination of technical data (collection, analysis, storage, and dissemination).	DHS and coordinating agency	Coordinating Agency
e. Ensure Federal protective action recommendations are developed and provide advice and assistance to State, local, and tribal governments.	DHS and coordinating agency	Coordinating Agency
f. Coordinate release of Federal information to the public.	DHS	Coordinating Agency
g. Coordinate release of Federal information to Congress.	DHS	Coordinating Agency
h. Keep the White House informed on all aspects of an incident.	DHS	Coordinating Agency
i. Ensure coordination of demobilization of Federal assets.	DHS	Coordinating Agency



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# Other Coordination Functions

- **International - Department of State (DOS)**
- **Victim Decontamination/Population Monitoring - Department of Health & Human Services (HHS), Through ESF-8**
- **Provision of Federal Resources & Assistance to Affected State, Local & Tribal Governments - DHS-Federal Emergency Management Agency (FEMA)**





# Recovery

- **For Incident of National Significance, DHS Coordinates Overall Federal Recovery Activities**
- **Coordinating Agency Maintains Responsibility for Managing Federal Technical, Radiological Cleanup Activities**
  - **Coordinates Environmental Remediation/Cleanup With State, Local & Tribal Governments & Owner/Operators**
  - **May Require Support From Cooperating Agency With Significant Cleanup/Recovery Expertise & Capabilities (e.g., EPA, US Army Corps of Engineers (USACE))**
  - **Coordinating Agency Role May Be Transitioned to Cooperating Agency to Manage Long-Term Cleanup Efforts**



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# Other Radiological-Specific Assets

- **Federal Radiological Monitoring and Assessment Center (FRMAC)**
  - Led by DOE, With Representation EPA, Department of Commerce (DOC), National Communications Systems (NCS), & USACE
  - Coordinates Radiological Monitoring & Assessment Activities for Initial Phases of Response
  - Established at, or Near, Incident Location



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# Other Radiological-Specific Assets (cont'd)

- **Advisory Team for Environment, Food, & Health**
  - Includes Representatives from DHS, EPA, USDA, Food & Drug Administration (HHS-FDA), Centers for Disease Control & Prevention (HHS-CDC) & Other Agencies, as Needed
  - Develops Coordinated Advice & Recommendations on Environmental, Food Health & Animal Health Matters
- **DOE Radiological Assistance Program (RAP)**
  - RAP Teams Located at DOE Operations Offices, National Labs & Some Area Offices
  - Can Be Dispatched to Incident by DOE Regional Coordinating Offices
  - Additional DOE Planning & Response Teams Located Throughout the Country Can Be Dispatched, as Needed



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# Summary

- **Nuclear/Radiological Annex to NRP Replaces '96 FRERP**
- **DHS Overall Incident Manager for All Incidents of National Significance**
- **Coordinating Agencies:**
  - **Coordinate Nuclear/Radiological Aspects of Radiological Incidents of National Significance**
  - **Lead the Federal Response to Nuclear/Radiological Incidents of Lesser Severity**
- **NRC is Coordinating Agency for All Incidents Involving Facilities & Materials Licensed by NRC or Agreement State**



# Questions?



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# NRP and NIMS Implementation

Impact on the NRC Incident Response Program,  
State/Local/Tribal Response & Licensee  
Response

Office of Nuclear Security and Incident Response  
U.S. Nuclear Regulatory Commission

April 2005





# Topics

- **NRC Incident Response Program**
  - Overview
  - NRC Roles
  - Relationships With Other Federal Agencies
- **Impact of NRP/NIMS Implementation**
  - NRC Impact
  - Stakeholder Impact
    - State/Local/Tribal
    - Licensee



# Incident Response Program Overview

- **NRC's Role**
  - **Statutory Responsibility**
  - **To Protect Public Health & Safety Should an Incident Occur Involving NRC-Regulated Site or Activity**
  - **Other Responsibilities**
    - **Assesses Plant Conditions**
    - **Evaluates Protective Action Recommendations**
    - **Supports Offsite Officials**
    - **Coordinates With Other Agencies**
    - **Keeps Media Informed**
- **Licensee's Role**
  - **Controls Regulated Materials & Facilities It Owns/Operates**
  - **Protects Public Against Releases**
  - **Mitigates Consequences of an Incident**
- **Federal Role**
  - **Coordinates Protective Actions With State/Local Governments**
  - **Overall Coordination During Incidents of National Significance**





# NUREG-0728, *NRC Incident Response Plan*

- Guides NRC in Assuring Appropriate Level of Response
- Delineates Responsibilities of NRC Responders
- Identifies Interrelationships Between NRC & Other Organizations
- Guidance for Agency Readiness
- “Licensee still has primary responsibility for response effort.”





# NRC Response Modes\*

- **Normal** – Routine state of readiness. 24/7 presence in the NRC Operations Center. Headquarters and Regional NRC managers are “on call” for routine or event notifications. May staff HSOC if needed.
- **Monitoring** – Heightened state of readiness. NRC Regional Office typically has the lead. Regional IRC is staffed. Some extra staffing possible at HQ.
- **Activation** – Incident sufficiently complex or uncertain and warrants extensive NRC analysis and possible Site Team deployment. NRC Headquarters has lead, with Operations Center partially staffed. Region continues to staff IRC and may prepare Site Team.
- **Full Activation** – Incident Severity and/or uncertainty warrants full agency capabilities to support overall Federal response. Headquarters has the NRC lead under direction of the NRC Chairman. Operations Center fully staffed. Regional IRC fully staffed. Site Team may or may not be deployed depending on circumstances. Chairman may delegate certain authorities to the Site Team Director.

\* Proposed NRC Response Modes submitted to the Commission for approval.

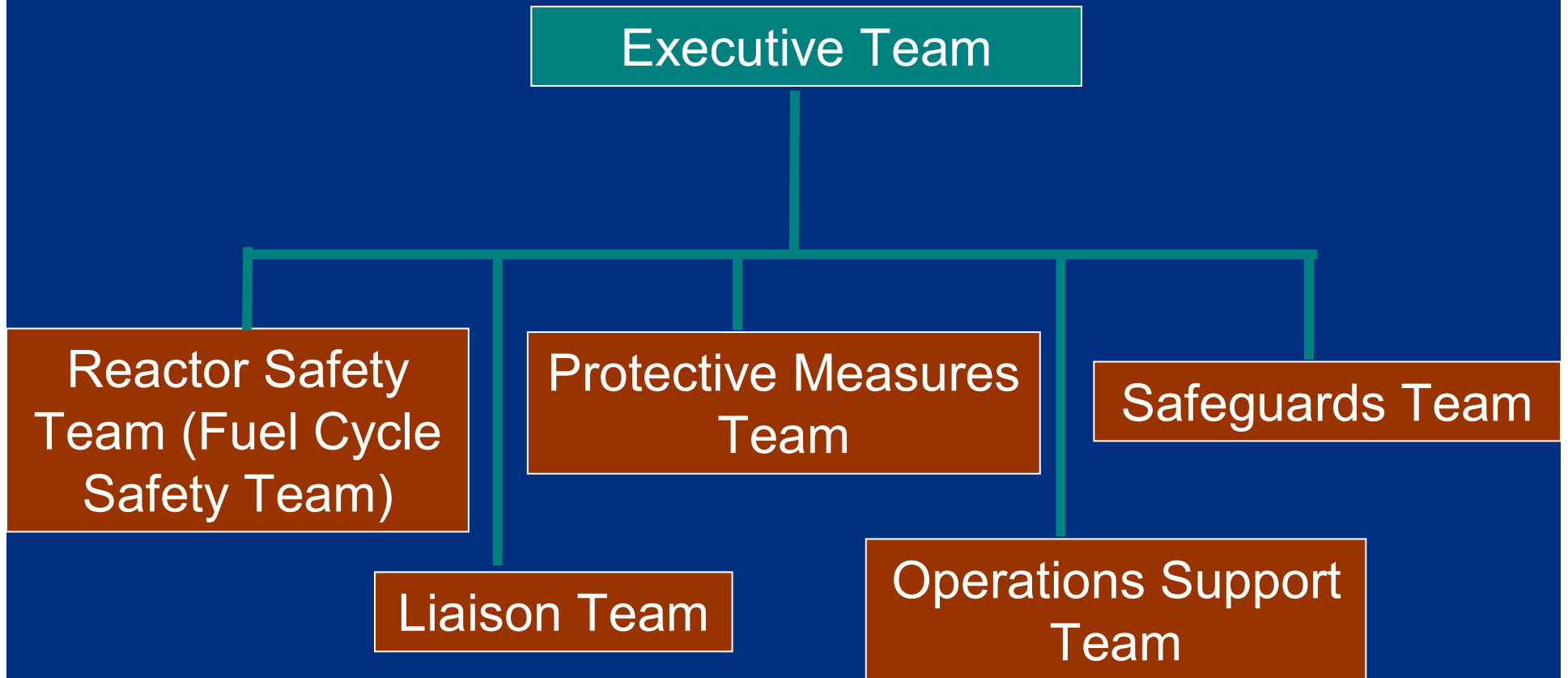


# NRC Response Modes (cont'd)

- **Graded Approach Based on NRC's Assessment of Incident Severity & Uncertainty**
- **If Event Is at an NRC-Licensed Facility, Licensee's Event Classification Considered in Response Mode Decision**
- **If Event Is Not at a Specific NRC-Licensed Facility, Other Factors Drive NRC's Response Mode Decisions**
  - **Transportation Incident**
  - **Electric Grid Incident**
  - **Natural Disasters**
  - **Domestic Threat (Changes in HSAS Level)**
  - **Terrorist Attack**



# NRC Headquarters Response Organization





# NRC Regional Response Organization (Initial & Expanded Activation)





# NRC External Interactions

- Examples of NRC Communications With Government & Private Sector Organizations During an Incident
  - White House/Congress
  - DHS
  - NORAD/NORTHCOM
  - FBI
  - EPA
  - HHS
  - Department of Agriculture
  - State Governor's Office
  - Nuclear Industry Advisory Groups/Vendors
  - Public/Media



# Impact of NRP/NIMS

- **Changes Already Incorporated Into NRC Procedures**
- **No Significant Changes to Licensee Response**
- **Areas Where Changes Are Anticipated**
  - Homeland Security Operations Center (HSOC)
  - Interagency Incident Management Group (IIMG)
  - Incident of National Significance (INS)
  - Principal Federal Official/Joint Field Office (PFO/JFO)
  - Interagency Modeling and Atmospheric Assessment Center (IMAAC)



# Homeland Security Operations Center (HSOC)

- **NRP Requires 24/7 Staffing of HSOC by DHS & Other Selected Agencies**
- **NRC Approach**
  - 24/7 Staffing Not Required Due to 24/7 HOO-HERO Staffing at NRC Headquarters
  - NRC Desk Officer Sent to HSOC When Requested by DHS to Provide “Reach-Back” Capability
  - NRC Sent Desk Officers on As-Needed Basis for Significant Events/Exercises Since Issuance of Initial NRP
  - More Formalized Procedure for HSOC Staffing to Be Developed to Meet NRP Requirements
- **Impact to States - HSOC Will Be Notified for Certain Types of Events**
- **No Impact to Licensees**





# Interagency Incident Management Group (IIMG)

- **Convened by DHS During Incident of National Significance in Order to Have Senior Personnel on Hand Who Can Represent Respective Agencies**
- **NRC Staffed IIMG for Exercises/Events Since INRP Issuance**
- **NRC Will Establish More Formal Internal Procedures for IIMG Staffing to Meet NRP Requirements**
- **Affected States May Be Represented on IIMG**
  - Via DHS Office of State & Local Gov't Coordination and Preparedness
  - or
  - Via State Liaison to IIMG
- **No Impact on Licensees**

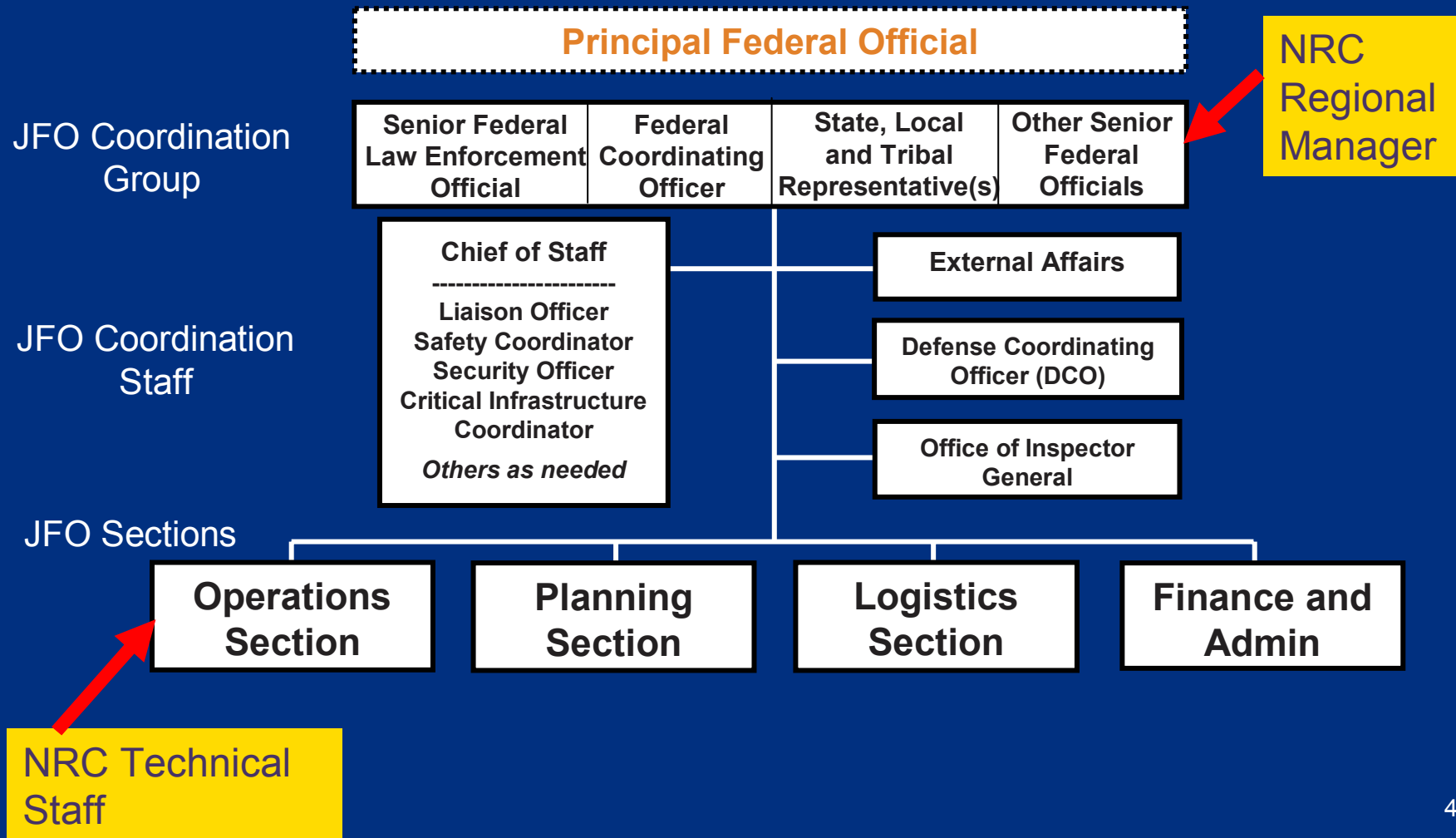


# Incident of National Significance (INS)

- **Incident of Size, Scope & Threat That Requires Coordinated Federal, State, Local & Private Entity Response Coordinated by DHS. For NRC Licensees, Following Thresholds Apply**
  - Reactor Event That Escalates to Level of General Emergency
  - Any Terrorist-Related Event
- **Secretary of Homeland Security Declares INS**
- **PFO Assigned to Locally Represent the Secretary**
- **For Nuclear/Radiological INS, NRP's Nuclear/Radiological Incident Annex Defines Federal Organizations Involved**
- **Structure of NIMS/JFO Provides Framework for Communications Once INS Declared & All Federal/State/Local Responders Identified**



# Principal Federal Official/Joint Field Office (PFO/JFO) Concept





# PFO/JFO Impact on NRC

- **INS Involving NRC-Regulated Activity Will Most Likely Result in Dispatch of NRC Site Team, Led by Director of Site Operations (DSO)**
- **In Addition, As a Coordinating Agency, NRC Will Provide a Senior Federal Official (SFO) As Representative to JFO Coordinating Group.**
  - SFO Is Senior NRC Manager (SES), Initially From Affected Region
  - SFO Accompanied by NRC Technical Staff
- **Public Affairs Tasking (Press Releases, Briefs, etc.) Will Be Coordinated With Joint Information Center (JIC)**



# PFO/JFO Impact on State/Local/Tribal Response

- **Affected Jurisdictions Should Be Prepared to Provide Representatives to JFO Coordinating Group.**
- **State & Local EOCs Will Be Tied Into JFO Coordination & Communications Structure**
- **State May Send Public Affairs Personnel to JIC to Assist With Media Communications**

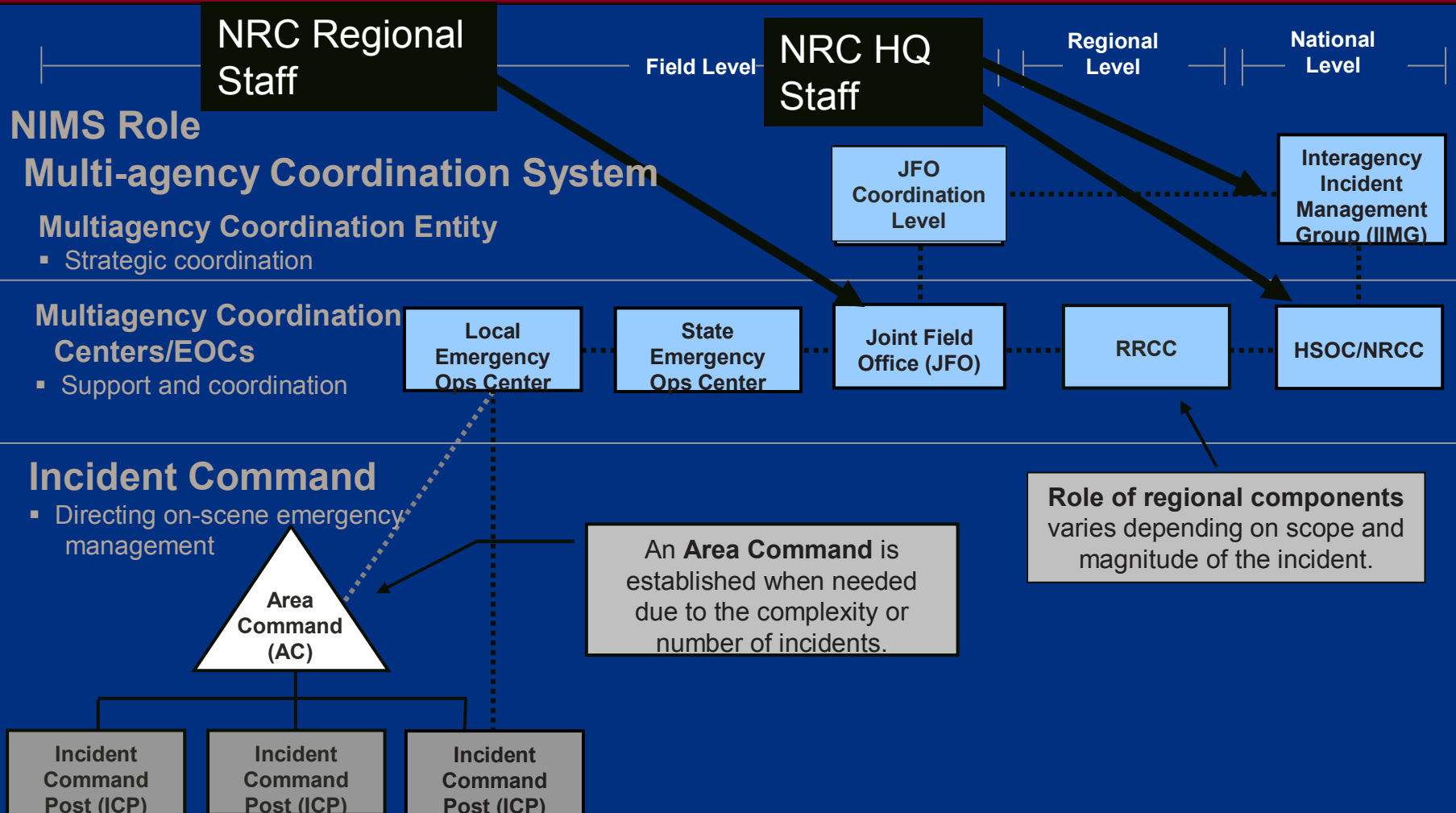


# PFO/JFO Impact on Licensees

- **Designation of Incident Command Post (ICP)**
  - ICP is Field Location Where Primary Tactical-Level, On-Scene Incident Command Functions Are Performed. May Be Co-Located With Incident Base or Other Incident Facilities. For Nuclear Power Plant Incident, Licensee's EOF May Serve as Incident Command Post
  - ICP Passes Information to JFO Directly or Via State/Local EOCs
- **May Be Asked to Dispatch Representatives to JFO**
  - Coordination Staff to Provide Additional Intelligence Information (Most Likely for Terrorist-Related Event)
- **Licensee May Send Public Affairs Representatives to JIC to Aid With Media Communications.**



# Multiagency Coordination





# Interagency Modeling and Atmospheric Assessment Center (IMAAC)

## ■ **Impact on NRC**

- Close Coordination With NRC's Protective Measures Team to Determine Effects of Release
- Uses Source Term Supplied by NRC
- Coordinated Federal Prediction of Atmospheric Dispersion & Predictions

## ■ **Impact on States**

- Interface With IMAAC Via NRC/Licensee to Corroborate Protective Action Recommendations

## ■ **Impact on Licensees**

- Reiterates Importance of Licensee Communicating Pertinent Plant Data to NRC and States
  - Plant Data Used to Predict Source Term Before Actual Release, Allowing for Maximum Time to Inform Public of Recommended Protective Actions





# Summary/Conclusions

- **NRC Role Remain the Same**
- **Licensee Responsibilities Unaffected**
- **Additional Organizational Interface (e.g., DHS, JFO, HSOC)**
  - **May Require Notification & Staffing by NRC/State Depending on Severity of Incident**
- **New Terminology (PFO, HSOC, Coordinating Agency, IIMG)**

# SCENARIO DISCUSSION

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## OVERVIEW

### Purpose

- **Illustrate Key Concepts of NRP & Nuclear/ Radiological Incident Annex Applicable to NRC-Licensed Facilities**
  - Federal Interrelationships
  - Federal/State Interrelationships
  - NRC/licensee Interrelationships

### Approach

- **Scenario-Based Discussion**
- **Nuclear Power Plant**
  - Scenario 1: Accident (“Operations”) Incident
  - Scenario 2: Terrorism Incident

# Discussion Topics

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- **“Incident of National Significance”**
- **Coordination of Federal Response to Incident**
- **Homeland Security Operations Center (HSOC)**
- **Interagency Incident Management Group (IIMG)**
- **Principal Federal Official (PFO)**
- **Joint Field Office (JFO)**
- **Radiological Consequence Modeling/Analysis**
- **Public Protective Action Recommendations**
- **Media/Public Interface**
- **Congressional & White House Interface**
- **Communication &/or Interface With NRC Licensee**
- **Additional State or Licensee Issues**

# Scenarios

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## Nuclear Power Plant

### **Scenario 1: Accident (“Operations”) Incident**

- 1.A: Emergency Classification – ALERT
- 1.B: Emergency Classification – GENERAL EMERGENCY

### **Scenario 2: Terrorism Incident**

- Emergency Classification – Multiple

# Scenario 1: Accident

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## Scenario 1.A – ALERT

- **Initial Conditions** - Notional NRC-Licensed Commercial Power Reactor Operating at 100% Power
- **Incident** - Degradation of Reactor System(s) – Meeting Criteria (i.e., EAL) for **ALERT** Emergency Class
- **Response** - Licensee Declaration of **ALERT**

# Scenario 1.A – ALERT

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## **Response** (cont'd)

- **Licensee**
  - Notifications
    - Licensee Responders
    - Local Government(s)
    - State (EPZ)
    - Other (e.g., Offsite Fire Department, Hospital)
    - NRC
  - Mitigation Activities
  - Emergency Response Teams & Facilities  
(e.g., Operations Support Center, Technical Support Center)

# Scenario 1.A – ALERT

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## **Response** (cont'd)

- **NRC**
  - Notifications
    - NRC Response Organization
    - DHS (HSOC)
    - Federal Departments/Agencies (e.g., DOE, EPA)
    - Regional Federal Departments/Agencies
  - Headquarters/Regional teams & Operations Centers
  - Independent Assessment of Licensee Actions
  - Communication to Federal Agencies & Media
- **State Notifications & Response Activities**
- **Local Government(s) Notifications & Response Activities**

# Scenario 1.A – ALERT

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## Discussion – Federal Interrelationships

- **“Incident of National Significance”**

Q: Is incident considered an Incident of National Significance?

A: No. Federal response guided by the Nuclear/Radiological Incident Annex & other applicable/interfacing Annexes.

- **Coordination of Federal Response to Incident**

Q: Is DHS responsible for overall coordination of Federal response to incident?

A: No. Overall Federal coordination by DHS is not necessary for this type & severity level of incident. NRC is responsible Federal agency.

- **Homeland Security Operations Center (HSOC)**

Q: Would DHS request NRC representation at HSOC?

A: No. However, DHS would likely request written notification of incident status/updates in addition to verbal notifications from NRC.

- **Interagency Incident Management Group (IIMG)**

Q: Would DHS establish an IIMG & request NRC representation?

A: No.



# Scenario 1.A – ALERT

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## Discussion – Federal Interrelationships (cont'd)

- **Principal Federal Official (PFO)**

Q: Would DHS designate Principal Federal Official (PFO) in response to incident?

A: No. NRC (Coordinating Agency) lead responsibilities are addressed in Nuclear/Radiological Incident Annex.

- **Joint Field Office (JFO)**

Q: Would DHS establish a Joint Field Office (JFO)?

A: No. Licensee emergency facilities and, as applicable, State/local EOCs would comprise “field” emergency facilities.

- **Coordination of Radiological Consequence Modeling/Analysis**

Q: Would DHS lead Federal coordination of radiological consequence modeling/analysis?

A: No. Although no release is in progress or expected, if needed, NRC would lead radiological consequence modeling/analysis in concert with licensee’s, Department of Energy’s, and State’s capabilities. NRC may consult with IMAAC.

- **Public Protective Action Recommendations**

Q: Would DHS lead Federal coordination of public protective action recommendations?

A: No. Although no public protective actions are anticipated, NRC would lead coordination of Federal-level public protective action recommendations with the State(s).

# Scenario 1.A – ALERT

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## Discussion – Federal interrelationships (cont'd)

### ▪ **Media/Public Interface**

Q: Would DHS lead Federal coordination of media/public interface?

A: No. If activated, Joint Information Center (JIC) in vicinity of the licensee's plant (staffed by State, local, licensee, NRC, and, as applicable, other Federal agencies) would provide media/public interface. NRC would provide DHS any press releases issued by the licensee and/or NRC. DHS may respond to media inquiries.

### ▪ **Congressional & White House Interface**

Q: Would DHS lead Federal coordination of Congressional and White House interface?

A: No. NRC may communicate/interface directly with Congress and the White House. DHS would interface with Congress and the White House in close coordination with NRC.

### ▪ **Communication &/or Interface Directly With NRC Licensee**

Q: Would DHS communicate and/or interface directly with NRC licensee?

A: No. DHS would coordinate through the NRC for licensee-related matters.

# Scenario 1.A – ALERT

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## **Discussion – Federal/State interrelationships**

- State Role/Responsibilities & Interrelationships With NRC Addressed in Nuclear/Radiological Incident Annex & Correlate Closely With Those Identified in Current FRERP
- State Interrelationships With Other Federal Departments/Agencies Addressed in NRP (e.g., Incident Notification to HSOC) & NIMS (e.g., Incident Command System)

## **Discussion – NRC/Licensee Interrelationships**

- Licensee Interrelationships With NRC Unchanged

# Scenario 1: Accident

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## Scenario 1.B – GENERAL EMERGENCY

- **Initial Conditions** - Notional NRC-Licensed Commercial Power Reactor Operating at 100% power
- **Incident** - Failure of Reactor System(s) Resulting in Radioactive Release to Environment (Airborne) – Meeting Criteria (i.e., EAL) for **GENERAL EMERGENCY**
- **Response** - Licensee Declaration of **GENERAL EMERGENCY**

# Scenario 1.B – GENERAL EMERGENCY

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## Response (cont'd)

- **Licensee**
  - Notifications:
    - Licensee Responders
    - Local Government(s)
    - State (EPZ)
    - Other (e.g., Offsite Fire Department, Hospital)
    - NRC
  - Protective Action Recommendations
  - Mitigation Activities
  - Emergency Response Teams & Facilities  
(e.g., Emergency Operations Facility, Joint Information Center)

# Scenario 1.B – GENERAL EMERGENCY

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## Response (cont'd)

- **NRC**
  - Notifications
    - NRC Response Organization
    - DHS (HSOC)
    - Federal Departments/Agencies (e.g., DOE, EPA)
    - Regional Federal Departments/Agencies
  - Headquarters/Regional Teams & Operations Centers
  - Independent Assessment of Licensee Actions & Protective Action Recommendations
  - Communication to Federal Agencies & Media
- **State Notifications & Response Activities**
- **Local Government(s) Notifications & Response Activities**

# Scenario 1.B – GENERAL EMERGENCY

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## Discussion – Federal Interrelationships

- **“Incident of National Significance”**

Q: Is Incident considered an Incident of National Significance?

A: Yes. If requested, a Stafford Act declaration may be made.

- **Coordination of Federal response to the incident**

Q: Is DHS responsible for overall coordination of Federal response to incident?

A: Yes. DHS would lead overall Federal coordination; NRC retains lead for technical response.

- **Homeland Security Operations Center (HSOC)**

Q: Would DHS request NRC representation at the HSOC?

A: Yes. NRC representative would provide technical input to HSOC.

- **Interagency Incident Management Group (IIMG)**

Q: Would DHS establish an IIMG and request NRC representation?

A: Yes. NRC designated SES-level manager would participate in IIMG.

# Scenario 1.B – GENERAL EMERGENCY

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## Discussion – Federal Interrelationships (cont'd)

- **Principal Federal Official (PFO)**

Q: Would DHS designate a PFO in response to incident?

A: Yes. There are several options (e.g., FEMA Regional Director). NRC, Coordinating Agency for the Nuclear/Radiological Incident Annex, has lead responsibilities for radiological matters as provided in the Annex.

- **Establishment of Joint Field Office (JFO)**

Q: DHS establish a JFO? State and local government be represented at JFO?

A: (1) Probably yes. JFO would be structured to meet NRC's needs. NRC would participate as part of JFO Coordination Group (i.e., unified command). (2) Yes. State/local government would participate as part of the Coordination Group (decision makers), Coordination Staff (liaisons), and at the Section level. Licensee may be asked to provide a representative to the JFO.

- **Radiological Consequence Modeling/Analysis**

Q: DHS lead Federal coordination of radiological consequence modeling/analysis?

A: No. NRC, as Coordinating Agency, has technical lead for radiological consequence modeling/analysis and coordinates with DHS. NRC coordinates with IMAAC – IMAAC generates Federal-endorsed products. NRC coordinates modeling/analysis with licensee and the State(s).



# Scenario 1.B – GENERAL EMERGENCY

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## Discussion – Federal Interrelationships (cont'd)

### ▪ **Public Protective Action Recommendations**

Q: Is DHS lead Federal coordination of public protective action recommendations?

A: No. NRC, as Coordinating Agency, has technical lead for Federal-level public protective action recommendations to be coordinated with the State(s). NRC ensures close coordination with DHS. The Federal interagency Advisory Team for Environment, Food and Health is activated. DHS and NRC would speak with “one voice.”

### ▪ **Media/Public Interface**

Q: Is DHS lead Federal coordination of media/public interface?

A: Yes. DHS public affairs would lead Federal interface and may establish joint (i.e., DHS & NRC) press releases or coordinate joint DHS-NRC press conferences. NRC would issue news releases at early stages of the incident and would coordinate media/public interface with DHS. The licensee would issue news releases at early stages of the incident and would coordinate media/public interface with Federal/State/local entities through the Joint Information Center – which may subsequently be subsumed into the JFO.

# Scenario 1.B – GENERAL EMERGENCY

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## Discussion – Federal Interrelationships (cont'd)

- **Congressional & White House Interface**

Q: Is DHS lead Federal coordination of Congressional and White House interface?

A: Yes. DHS would coordinate with NRC in interface with Congress and the White House.

- **Communication &/or Interface Directly With NRC Licensee**

Q: Would DHS communicate and/or interface directly with the NRC licensee?

A: No. DHS would coordinate through the NRC for licensee-related matters.

# Scenario 1.B – GENERAL EMERGENCY

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## **Discussion – Federal/State Interrelationships**

- State Role/Responsibilities & Interrelationships With NRC Addressed in Nuclear/Radiological Incident Annex
- State Interrelationships With DHS & Other Federal Departments / Agencies Addressed in Nuclear/Radiological Incident Annex, NRP& NIMS

## **Discussion – NRC/Licensee Interrelationships**

- Licensee Interrelationships With NRC Unchanged
- Licensee May Interface With Federal Departments/Agencies at JFO

# Scenario 2: Terrorism Incident

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- **Initial Conditions** - Notional NRC-Licensed Commercial Power Reactor Operating at 100% Power
- **Incident** - Initiation of Terrorist Incident Meeting Criteria for Emergency Classification
- **Response** - Licensee Declaration of Applicable Emergency Class

# Scenario 2: Terrorism Incident

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## Response (cont'd)

- **Licensee**

- Notifications
  - Licensee Responders
  - Local Law Enforcement Agencies
  - FBI Field Office
  - Local Government(s)
  - State (EPZ )
  - Other (e.g., Offsite Hospital)
  - NRC
- Emergency Teams/Facilities Consistent With Site Security Plan
- Mitigation Activities
- Protective Action Recommendations (as appropriate)

# Scenario 2: Terrorism Incident

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## Response (cont'd)

- **NRC**
  - Notifications
    - NRC Response Organization
    - DHS (HSOC)
    - FBI Headquarters (SIOC)
    - Federal Departments/Agencies (e.g., DOE)
    - Regional Federal Departments/Agencies
    - Other Licensees (as appropriate)
  - Headquarters/Regional Teams & Operations Centers
  - Independent Assessment of Licensee Actions & Protective Action Recommendations (as appropriate)
  - Communication to Federal Agencies & Media
- **State Notifications & Response Activities**
- **Local Government(s) Notifications & Response Activities**

# Scenario 2: Terrorism Incident

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## Discussion – Federal Interrelationships

- **“Incident of National Significance “**

Q: Is incident an Incident of National Significance?

A: Yes. Nuclear/radiological terrorism incidents are considered Incidents of National Significance. Implementation of NRP is appropriate.

- **Coordination of Federal Response to Incident**

Q: Is DHS responsible for overall coordination of Federal response?

A: Yes. DHS would lead overall Federal coordination for incident; NRC retains lead for technical response. DHS may have discussions with State Governors and may increase HSAS threat level. DHS would focus on assembling the facts of this situation using the HSOC as a focal point. DHS would focus on the implications of this event for other critical assets and key resources and on the potential for coordinated attacks elsewhere in the United States. NRC would make prompt notification to other licensees on the potential for other coordinated attacks.

- **Homeland Security Operations Center (HSOC)**

Q: Does DHS request NRC representation at HSOC?

A: Yes. NRC representative would provide technical input to the HSOC.

- **Interagency Incident Management Group (IIMG)**

Q: Does DHS establish an IIMG and request NRC representation?

A: Yes. NRC designated SES-level manager would participate in the IIMG.

# Scenario 2: Terrorism Incident

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## Discussion – Federal Interrelationships (cont'd)

- **Principal Federal Official (PFO)**

Q: Does DHS designate a Principal Federal Official (PFO)?

A: Yes. PFO would likely be the FEMA Regional Director. DHS would have a national focus – e.g., where else might a terrorist incident occur. NRC, Coordinating Agency for Nuclear/Radiological Incident Annex, would have lead responsibilities related to radiological matters. NRC would establish close liaison with DHS and coordinate with DOJ/FBI, Coordinating Agency for Terrorism Incident Law Enforcement and Investigation Annex, regarding the incident and implications for other NRC licensees.

- **Joint Field Office (JFO)**

Q: Would DHS establish a Joint Field Office (JFO)?

A: Yes. JFO would be established for an extended incident. The FBI-led JOC would be integral to the JFO (co-located or virtually connected). NRC would participate as part of the JFO Coordination Group (i.e., unified command) and, additionally, have representation at the JOC. Licensee may be requested to establish liaison at JFO.

- **Radiological Consequence Modeling/Analysis**

Q: Does DHS lead coordination of Federal radiological consequence modeling/analysis?

A: No. NRC's role is same as non-terrorist incident.



# Scenario 2: Terrorism Incident

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## Discussion – Federal Interrelationships (cont'd)

### ▪ **Public Protective Action Recommendations**

Q: DHS lead Federal coordination of public protective action recommendations?

A: No. NRC's role is same as non-terrorist incident.

### ▪ **Media/public Interface**

Q: DHS lead Federal coordination of media/public interface?

A: Yes. DHS lead is similar to non-terrorist incident. NRC would coordinate issuance of news releases with DHS and FBI. The licensee would coordinate media/public interface with Federal/State/local entities, including the FBI, through the Joint Information Center.

### ▪ **Congressional & White House Interface**

Q: DHS lead Federal coordination of Congressional and White House interface?

A: Yes. DHS, in concert with NRC and DOJ/FBI, would coordinate interface with Congress and the White House.

### ▪ **Communication &/or Interface Directly With NRC Licensee**

Q: DHS communicate and/or interface directly with the NRC licensee?

A: No. DHS would coordinate through the NRC for licensee-related matters. DHS would likely participate in conference calls with NRC and licensee.

# Scenario 2: Terrorism Incident

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## **Discussion – Federal/State Interrelationships**

- State Role/Responsibilities & Interrelationships With NRC Addressed in Nuclear/Radiological Incident Annex
- State Interrelationships With FBI Addressed in Terrorism Incident Law Enforcement and Investigation Annex
- State Interrelationships With DHS & Other Federal Departments / Agencies Addressed in Nuclear/Radiological Incident Annex, NRP & NIMS

## **Discussion – NRC/Licensee Interrelationships**

- Licensee Interrelationships With NRC Unchanged
- Licensee May Interface With FBI, DHS & Other Federal Departments / Agencies at JOC & JFO

# Conclusion / Summary

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## Nuclear Power Plant Incidents

- **“Incident of National Significance”** – Incident Severity Threshold Above Which DHS Coordinates Overall Federal Response – Is Key Concept Formalized in NRP
- Accident (“Operations”) Incidents of **GENERAL EMERGENCY** Severity Considered Incidents of National Significance
- **Terrorism Incidents** – Regardless of Emergency Classification Levels - Considered Incidents of National Significance