

SCENARIO DISCUSSION

OVERVIEW

Purpose:

- Illustrate key concepts of National Response Plan and 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

- “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 and White House interface
- Communication and/or interface with NRC licensee
- Additional State or licensee issues

Scenarios

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

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

Response (continued):

- Licensee
 - Notifications:
 - Licensee responders
 - Local government(s)
 - State (EPZ)
 - Other (e.g., offsite fire department, hospital)
 - NRC
 - Mitigation activities
 - Emergency response teams and facilities
(e.g., Operations Support Center, Technical Support Center)

Scenario 1.A – ALERT

Response (continued):

- NRC
 - Notifications:
 - NRC response organization
 - DHS (HSOC)
 - Federal departments/agencies (e.g., DOE, EPA)
 - Regional Federal departments/agencies
 - Headquarters/Regional teams and Operations Centers
 - Independent assessment of licensee actions
 - Communication to Federal agencies and the media
- State notifications and response activities
- Local government(s) notifications and response activities

Scenario 1.A – ALERT

Discussion – Federal interrelationships

- “Incident of National Significance “

Q: Is incident considered an Incident of National Significance?

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

- Coordination of Federal response to the 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 and severity level of incident. NRC is the responsible Federal agency.

- Homeland Security Operations Center (HSOC)

Q: Would DHS request NRC representation at the 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 and request NRC representation?

A: No.

Scenario 1.A – ALERT

Discussion – Federal interrelationships (cont.)

- Principal Federal Official (PFO)
 - Q: Would DHS designate a 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

Discussion – Federal interrelationships (cont.)

- **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 and 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 and/or interface directly with the 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

Discussion – Federal/State interrelationships

- State role/responsibilities and interrelationships with NRC are addressed in Nuclear/Radiological Incident Annex and correlate closely with those identified in current FRERP.
- State interrelationships with other Federal departments/agencies are addressed in NRP (e.g., incident notification to HSOC) and NIMS (e.g., Incident Command System).

Discussion – NRC/Licensee Interrelationships

- Licensee interrelationships with the NRC are unchanged.

Scenario 1: Accident

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

Response (continued):

- 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 and facilities
(e.g., Emergency Operations Facility, Joint Information Center)

Scenario 1.B – GENERAL EMERGENCY

Response (continued):

- NRC
 - Notifications:
 - NRC response organization
 - DHS (HSOC)
 - Federal departments/agencies (e.g., DOE, EPA)
 - Regional Federal departments/agencies
 - Headquarters/Regional teams and Operations Centers
 - Independent assessment of licensee actions and protective action recommendations
 - Communication to Federal agencies and media
- State notifications and response activities
- Local government(s) notifications and response activities

Scenario 1.B – GENERAL EMERGENCY

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

Discussion – Federal interrelationships (cont.)

- **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: Probably yes. JFO would be structured to meet NRC's needs. NRC would participate as part of JFO Coordination Group (i.e., unified command).

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

Discussion – Federal interrelationships (cont.)

- Public protective action recommendations

Q: 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: 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

Discussion – Federal interrelationships (cont.)

- Congressional and White House interface

Q: 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 and/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

Discussion – Federal/State interrelationships

- State role/responsibilities and interrelationships with the NRC are addressed in the Nuclear/Radiological Incident Annex.
- State interrelationships with DHS and other Federal departments/agencies are addressed in the Nuclear/Radiological Incident Annex, the NRP, and NIMS.

Discussion – NRC/Licensee Interrelationships

- Licensee interrelationships with the NRC are unchanged.
- The licensee may also interface with Federal departments/agencies at the JFO

Scenario 2: Terrorism Incident

- 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

Response (continued):

- 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

Response (continued):

- 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 and Operations Centers
 - Independent assessment of licensee actions and protective action recommendations (as appropriate)
 - Communication to Federal agencies and media.
- State notifications and response activities
- Local government(s) notifications and response activities

Scenario 2: Terrorism Incident

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: 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: DHS request NRC representation at HSOC?

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

- Interagency Incident Management Group (IIMG)

Q: DHS establish an IIMG and request NRC representation?

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

Scenario 2: Terrorism Incident

Discussion – Federal interrelationships (cont.)

- Principal Federal Official (PFO)

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

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

Scenario 2: Terrorism Incident

Discussion – Federal interrelationships (cont.)

- 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 and 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 and/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

Discussion – Federal/State interrelationships

- State role/responsibilities and interrelationships with the NRC are addressed in the Nuclear/Radiological Incident Annex.
- State interrelationships with the FBI are addressed in the Terrorism Incident Law Enforcement and Investigation Annex.
- State interrelationships with DHS and other Federal departments/agencies are addressed in the Nuclear/Radiological Incident Annex, the NRP, and NIMS.

Discussion – NRC/Licensee Interrelationships

- Licensee interrelationships with the NRC are unchanged.
- The licensee may also interface with the FBI, DHS and other Federal departments/agencies at the JOC and JFO

Conclusion / Summary

Nuclear Power Plant Incidents

- “Incident of National Significance” – incident severity threshold above which DHS coordinates overall Federal response – is a key concept formalized in the National Response Plan.
- Accident (“operations”) incidents of GENERAL EMERGENCY severity are considered Incidents of National Significance
- Terrorism incidents – regardless of emergency classification levels - are considered Incidents of National Significance