

Lessons Learned Phase III Hostile Action-Based Drills

NRC Public Meeting

Marty Hug
Nuclear Emergency Institute
November 9, 2007

Recap - Phases of the Initiative

- **Phase I & II – Pilot Phase**
 - **Conduct of tabletops and drill to develop, refine and validate new onsite and offsite guidance and objectives**
- **Phase III – 1st year industry threat-based drills**
 - **Eight Drills conducted to date in 2007;**
Susquehanna in November
 - **NEI, NRC and FEMA observation**
 - **NRC feedback from the drills**



NEI Task Force

- **NEI Task Forces:**
 - **Pilot Task Force**
 - **Current Task Force**
 - **NEI 06-04 Revision 1**
- **Goal of Task Forces**
 - **To Help Licensees Pull all Expectations and Revised Requirements Together into a Consistent Demonstration**



Consistency in Drill Process

- **NEI 06-04 Revision 0 Not Applied Consistently**
- **NEI Determined the Need**
 - **Revise NEI 06-04**
 - **Conduct the Workshop**

Drills in 2007

- **NEI Observed**

- Vogtle
- Quad Cities
- Seabrook
- Point Beach
- Perry
- Brunswick

- **NEI Received Feedback**

- Braidwood
- Prairie Island

Facilities NEI Observed

- **Control Room / Central Alarm Station**
 - Two Airliner Events
 - One Hostile Force Drill
- **Unified Command Post**
- **Alternate Facilities**
- **Off Site Mustering Location**
- **County Emergency Operation Center**

ICP / UC

- **Resources Available at ICP Limited Space**
 - Limited Phones
 - Mimic Resources
- **Plant Experience**
 - Operation, Security and Radiological Experience Needed
- **ICP/UC and EOC Interface**
 - Demonstration of UC
 - Location of UC

Communications

- **NIMS Adds New Communications Paths**
 - **Develop a Road Map**
 - **Example in NEI 06-04 R1**
 - **Discuss in Table Top**
 - **Determine Communication Tools**
 - **Test Tools Drill**
 - **Radios Did Not Work**

Instill a Sense of Event Recovery Urgency

GENERAL EMERGENCY: Events are in progress or have occurred which involve actual or imminent substantial core degradation or melting with potential for loss of containment integrity or **HOSTILE ACTION** that results in an actual loss of physical control of the facility...

**Imminent Substantial Core Damage
Potential for Loss of Containment**

General Emergency
But
No Radioactive Release
However
Potential For a Release if
Event Not Mitigated

Protective Action Recommendation

- **General Emergency**
 - Two Miles 360 Degrees
 - Key Hole Out to 5 Miles
 - Possibly not Appropriate
- **Security Event Consideration**
 - Putting General Public on Road
 - Other Hostile Acts
 - Equipment moving to Site
 - Mutual Aid Not in Place

Airliner Threat Communications

- **Need for NRC to Familiarize Licensee with Protocols**
- **Protocol Provided to NEI in August 2, 2007 Letter**
- **Training Provided to Industry in a Workshop**
- **Discussions Ongoing**

Joint Information Center

- **FBI**
 - **Public Confidence**
 - **Information Provided**
- **Need for Separate Public Information Table Top**

Questions?

- **Contact:**

Marty Hug

Sr Project Manager Emergency Preparedness

Nuclear Energy Institute

Phone: (202) 739-8129

Mobile: (202) 439-0768

Email: mth@nei.org

