



# Hostile Action-Based Exercise Operating Experience

2014 EP Forum

# **Reviewed Operating Exercise from 2013 & 2014 HAB Exercises**



**Share this material  
with your drill  
managers and  
scenario writers**

# General Emergency Condition

- Some General Emergency declarations did not occur as anticipated
  - All were critiqued by the site
  - No findings to date
- Verify that the described scenario condition(s) are aligned with the targeted EAL wording and basis
  - Vigorous scenario challenge reviews

# General Emergency Condition

Specify/describe the  
“safety functions” not maintained

**HG1**

## Initiating Condition - **GENERAL EMERGENCY**

HOSTILE ACTION resulting in loss of physical control of the facility.

**Operating Mode Applicability:** All

**Example Emergency Action Level:** (1 or 2)

1. A HOSTILE ACTION has occurred such that plant personnel are unable to operate equipment required to maintain safety functions.
2. A HOSTILE ACTION has caused failure of Spent Fuel Cooling Systems and IMMINENT fuel damage is likely for a freshly off-loaded reactor core in pool.

Specify/describe the plant and radiological conditions  
that constitute “IMMINENT fuel damage”

# General Emergency Condition

- The scenario timeline should state the start time for the 15-minute classification assessment period
  - When do conditions meet the EAL?
- List all applicable EALs
  - For example, an attack resulting in a total loss of AC power may exceed EAL HG1 AND GE EAL SG1 – *Prolonged loss of all Off-site and all On-Site AC power to emergency busses*



# Protective Action Recommendation (PAR)

- As with General Emergency declarations, some PARs did not occur as anticipated; all critiqued
- Information flow is dynamic/times can vary
- IF your PAR is contingent upon certain information being available to a decision-maker, THEN describe the expected PAR for **both** outcomes
  - Information set 1 = PAR 1
  - Information set 2 = PAR 2



# Communications

- Map out needs for facilities and field locations
  - Look at player and controller networks

ERO	OROs
Onsite	ICP
Security	LLEA
Fire/Medical	Fire/Medical
EOF	EOCs
Alternate Facility	Other

Voice	Data
Telephone	ISP
Cell phone	Wireless network
Radio	Facility Wi-Fi
VoIP	Devices
Other	Power supplies

- Test/verify all communications paths

# Communications

UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
OFFICE OF NUCLEAR REACTOR REGULATION  
WASHINGTON, DC 20555-0001

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Review  
this RIS



## **NRC REGULATORY ISSUE SUMMARY 2009-10 COMMUNICATIONS BETWEEN THE NRC AND REACTOR LICENSEES DURING EMERGENCIES AND SIGNIFICANT INCIDENTS**

### **Communication of Security-Related Information**

One method of meeting the requirement for “an open and continuous communication channel” for discussing security-related information is the use of a separate telecommunications Security Bridge. The NRC anticipates that the licensee will join the Security Bridge upon request from the NRC during events that meet the threshold for continuous communication with the NRC and have security implications. The use of this line will promote a clear communication method for security-related discussions and not interfere with operational communications established by the Emergency Notification System (ENS) or Health Physics Network (HPN). The spokesperson representing the licensee on the Security Bridge should be able to speak knowledgeably regarding security status and activities.



# HAB Exercise OE

- Airline attack scenario timeline
  - Keep realistic/avoid excessive time duration from initial threat report to impact (e.g., <30 minutes)
- Suspension of, or inability to maintain, Security Plan functions
  - Process for invoking 10 CFR 50.54(x) and (y), and notifying the NRC
  - Personnel are trained and aligned on the process

## HAB Exercise OE

- Instructions for onsite personnel movement in post-attack environment
  - Clarity and completeness of instructions
  - Methods for delivery of messages to personnel
- Coordinating and tracking ERO personnel movement
  - Multiple/different locations during HAB response
  - Maintain control of personnel assignments

# HAB Exercise OE

- LLEA, fire and medical responses
  - Have scripted controller information for simulated offsite resources – vehicles and personnel. Where and how many? Reporting times and task completion times (e.g., when is the fire out)?
- For multi-unit sites
  - Communicate status of unaffected unit(s) to offsite stakeholders (OROs, NRC, ICP, etc.)
  - Control use of the “unaffected unit” personnel

# HAB Exercise OE

- Public information
  - Impaired/slow information flow between facilities; particularly the ICP/LLEA and JIC
    - Untimely press/information releases
    - Consider HAB impacts to JIS/virtual JICs
  - From NEI 06-04, Revision 2, consider:
    - Conducting a PI tabletop prior to the exercise
    - A quick hit self-assessment against listed good practices

## HAB Exercise OE

- **Success Factor** – ERO Liaisons at the ICP
  - Assign individuals that can actively promote effective coordination with ERO facilities
- **Good Practice** – Include HAB event response in licensed operator simulator training
  - Include security supervision
  - Invite OROs/LLEAs to observe
  - Consider NRC participation for aircraft scenarios

# HAB Exercise Resources from NEI

- Links on NEI EP website
  - HAB exercise Operating Experience (e.g., critiques)
  - Generic HAB exercise preparation schedule
  - Example State planning materials
  - FEMA HAB exercise evaluation materials
  - “Pre-job briefing” video
- Pre-submittal scenario review



# HAB Exercise Resources from NEI

- <http://www.nei.org/Member-Center/Committees/Working-Groups/Emergency-Preparedness-Working-Group/Hostile-Action-Event-Resources>

Home > Member Center > Committees > Working Groups > Emergency Preparedness Working Group > Hostile Action Event Resources

## Committees

Advisory Committees

Standing Committees

Executive Task Forces

Working Groups

Print 

## Hostile Action Event Resources

View Our Hostile Action-Based (HAB) Scenario Video

### Hostile Action-Based Drills and Exercises

NEI 06-04, Conducting a Hostile Action-Based Emergency Response Drill, Revision 2

HAB Drill/Exercise Operating Experience



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**Please hold questions until the end**

**Do you have HAB drill/exercise OE  
and Lessons Learned to share?**

**Please do so during  
the Q&A session!**