Nevada National Security Site
Emergency Management Overview

Asylum Road-17 Exercise Overview
Welcome

• This presentation will provide you an overview of
  – The Nevada National Security Site (NNSS)
    • NNSS Facilities, Hazards and Protective Actions
    • Emergency Management Program Review
    • Sitewide Exercise – Asylum Road 17
NNSS Facilities, Hazards and Protective Actions
NNSS Facilities

• Device Assembly Facility (DAF)

• Hazardous Waste Storage Unit (HWSU)/Hazardous Waste Accumulation Area (HWAA)

• Joint Actinide Shock Physics Experimental Research Facility (JASPER)

• Nonproliferation Test and Evaluation Complex (NPTEC)

• Radioactive Waste Management Complex (RWMC)

• U1a Complex (underground)
NNSS Hazards

- Nuclear/Radiological
- Low Level and Mixed Low Level Waste
- Chemical Hazards
- Explosives
- Legacy Contamination Sites
Assessing Hazards – Emergency Action Levels (EALs)

- Facility-specific, predetermined, observable criteria
- Used to promptly detect, recognize, and determine the classification of an incident
- Assist with determining rapid Protective Actions/Protective Action Recommendations
- Scenarios developed and consequences calculated for:
  - Spill
  - Fire
  - Explosion
PAR Card Program Overview

- Nine locations with potential for offsite consequences warranting PARs
  - DAF
  - HWSU
  - NPTEC (6 different locations)
  - Transportation Incidents
- Concentric rings around facilities
  - Rings are at 5 km, 10 km, 15 km, 20 km, 25 km

<table>
<thead>
<tr>
<th>Stability Class</th>
<th>5 km</th>
<th>10 km</th>
<th>15 km</th>
<th>20 km</th>
<th>25 km</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>01:02</td>
<td>02:04</td>
<td>03:06</td>
<td>04:08</td>
<td>05:10</td>
</tr>
<tr>
<td>B</td>
<td>00:46</td>
<td>01:33</td>
<td>02:19</td>
<td>03:06</td>
<td>03:53</td>
</tr>
<tr>
<td>C</td>
<td>00:32</td>
<td>01:05</td>
<td>01:37</td>
<td>02:10</td>
<td>02:43</td>
</tr>
<tr>
<td>D</td>
<td>00:23</td>
<td>00:47</td>
<td>01:10</td>
<td>01:34</td>
<td>01:57</td>
</tr>
<tr>
<td>E</td>
<td>04:52</td>
<td>09:45</td>
<td>14:38</td>
<td>19:30</td>
<td>&gt;24:00</td>
</tr>
<tr>
<td>F</td>
<td>03:21</td>
<td>06:43</td>
<td>10:05</td>
<td>13:27</td>
<td>16:49</td>
</tr>
</tbody>
</table>

Recommended Roadblock Mile Markers

<table>
<thead>
<tr>
<th>Road</th>
<th>5 km</th>
<th>10 km</th>
<th>15 km</th>
<th>20 km</th>
<th>25 km</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. Highway 95</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>CL 132.14</td>
</tr>
<tr>
<td>Nevada State Route 160</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>NY 9</td>
</tr>
<tr>
<td>Nevada State Route 373</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>
NNSS Emergency Management Program
Emergency Response Organization

- Operations Command Center Fire Dispatch takes onsite emergency calls
- Response based on Incident Command System / Unified Command Structure
- Three-tiered organizational structure
Tier I: Facility and First Responders

- Local Emergency Director (LED)
- Emergency Action Team (EAT)

- NNSS Fire and Rescue
- Contractor Protective Force
- Nye County Sheriff’s Office
Tier II: Emergency Facilities – Operations Command Center

- Primary point of contact for emergency notifications (24/7 operations), and offsite notifications
- 911 Operator receives emergency calls and dispatches Fire and Rescue assets
- Determines categorization/classification and protective actions based on Emergency Action Levels
- Activates Emergency Response Organization
- Monitors air and ground activities on NNSS and coordinates emergency response air traffic through appropriate air traffic control centers
- Responsible for coordinating Unmanned Aircraft System (UAS) support for the Incident Commander
Tier III: Emergency Facilities – Emergency Operations Center

- Two locations:
  - NNSS
  - NLVF

- Primary roles include:
  - Supporting the Incident Commander
  - Taking action to protect people and property within site boundaries
  - Planning and coordinating field team (chemical/radiological) response
  - Communicating with offsite agencies
  - Enacting mutual aid agreements with offsite agencies
  - Planning recovery activities
  - Coordinating news releases, social media and press conferences
Tier III: Emergency Facilities – Emergency Operations Center

Legend:
- Activate as Needed
- Minimum Staffing

Offsite Liaison
Public Affairs Officer
JIC

Operations Group Lead
- Fire/EMS
- Security/Law Enforcement
- Medical/Public Health
- Safety-HP/Safety-IH
  - RERT
  - IHERT

Planning Group Lead
- Documentation Unit
- Support Unit
- Geographic Information System
- Consequence Assessment Team
- Classification Advisor
- Intelligence

Logistics Group Lead
- Energy
- Construction
- Facilities
- Waste/Water
- Transportation
- Feeding
- Housing
- Communications

Finance Group
- Contracting Officer

COOP/CRT
- NNSA/INFO COOP
- NSTec COOP
- Centerra-Nevada COOP
Exercises

- NNSS maintains a robust exercise program
  - High Hazard Facilities and ERO components are tested annually through a formal evaluation
- Supports regional exercises with offsite partners
ASYLUM ROAD-17 Full Scale Exercise
Asylum Road-17 Full Scale Exercise

Scope

• Multiple Emergency Events
  • Transportation accident onsite results in offsite consequences
  • Earthquake causes heavy damage in the Mercury and U1a
• U1a Evacuation
• 16 Buildings in Mercury Evacuated
• Emergency Operations Center / Operations Command Center relocated
• Integration of mutual aid partners from across Southern Nevada
Asylum Road-17 Participants

**NNSS Participants**
- Facility Occupants
  - Mercury Campus
  - U1a Facility
- NNSS Fire and Rescue
- Contractor Protective Force
- Industrial Hygiene Emergency Response Team
- Mine Rescue Team
- Nye County Sheriff’s Office
- Operations Command Center
- Emergency Operations Center
- Joint Information Center

**External Partners (Field Play)**
- Nye County Emergency Services
- Clark County Fire Department
- Las Vegas Fire and Rescue
- Mercy Air Helicopter Medevac

**External Partners (Notification)**
- Nye County Office of Emergency Management
- Clark County Office of Emergency Management
- Lincoln County Office of Emergency Management
- Nellis Air Force Base Command Post
- State of Nevada Watch Office
- Department of Energy HQ Watch Office
Area 22
Chemical Transportation

Area 1 U1a
Collapse

Area 23 Multiple building collapses
“Firsts”

• Evacuating large NNSS population center
• Number of Participants (750+)
• Integrated Technical Rescue with multiple fire departments
• Distance between multiple event scenes (3 events spanning 30+ miles)
• Establishing “Area Command” to manage multiple incident scenes
Opportunities

- More pre-exercise training for controllers and role-players
- Enhance NNSS Fire and Rescue capability for responding to structural collapses
- Additional training and procedures for Area Command and complex incidents
- Increase frequency of field monitoring team training (Radiological, Chemical)
- Increase frequency of Emergency Operations Center cadre training
Summary

• Asylum Road-17 was a rigorous test of our Emergency Response Organization
• Responders both onsite and offsite were tested with a challenging scenario
• Simulations provided large and realistic incident scenes
• Enhanced safety and security considerations were heavily integrated into the planning process
Any Questions?

Contact Information Below:

National Security Administration, Nevada Field Office

Chudi Onowu, Federal Point of Contact
NNSA/NFO Emergency Management Program Manager
(702) 295-3108

National Security Technologies, LLC (Contractor to U.S. DOE)

William Knipper, Manager
Emergency Planning and Preparedness
(702) 295-4819