

Center for National Response Operational Test and Evaluation Program

MEMORIAL TUNNEL

Prepared for
NDIA International Test and
Evaluation Summit and Exhibition

Prepared by
Jon Stewart and Allison Voight

27 February 2003





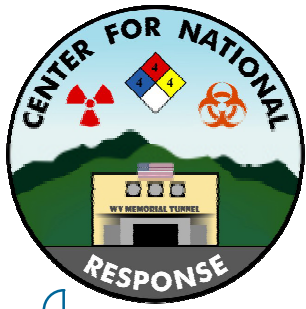
CNR Background

In fiscal year 2000, the United States Congress directed the Department of Defense to “establish a cost effective counterterrorism training program for first responders and concurrent testing of response apparatus and equipment at the [West Virginia] Memorial Tunnel.”



The CNR

The CNR is a weapons of mass destruction (WMD) consequence management (CM) and counterterrorism (CT) training and testing facility for local, state, Federal, agencies and departments. Within the CNR are realistic venues, props, and special effects to enhance the testing and training experience.



HAZMAT/Highway Venue

- HAZMAT, Accident, or Terrorist Event
- Props include cars, a bus, fire engines, and/or a tractor-trailer

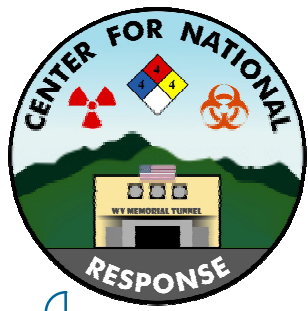




Restaurant Venue

- Family style Italian restaurant overlooking subway/train tracks
- Multiple entrances and exits





Subway Venue

- Real subway car
- 200-feet of track
- Subway platform
- Accessible electrical and ventilation rooms





Illicit Laboratory Venues

- Three different level of sophistication
- Simulates biological, chemical, or illicit drug labs
- Contain real equipment and many precursors

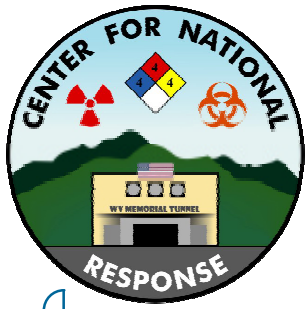




Cave Venue

- Simulates an underground or mountainous system of narrow tunnels
- Props include manuals, weapons, and laboratory equipment





Post-Blast Rubble Venue

- Partially collapsed building with hazards and vehicles
- Second story accessible via stairwell or elevator shaft





Confined-Space Egress Trainer

- Three-level structure
- Near zero light, confined-space operating environment
- Debris within creates additional challenges





Our Mission

To evaluate the utility of equipment, technology, and apparatus to materially aid emergency response personnel in a WMD-contaminated environment.



Our Goal

Our goal is twofold:

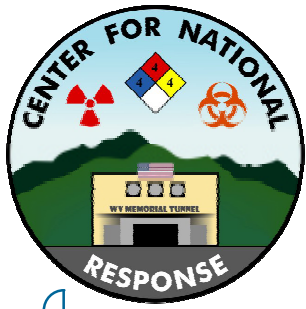
- Allowing emergency responders to operationally test equipment in a realistic WMD environment prior to purchase so that they are able to identify equipment that meets their needs.
- Provide manufacturers with test results and feedback from the testing organizations, which presents them with product strengths and ways in which they can improve their product.



Examples of Equipment Tested

- Personal Protective Equipment
- Detectors (Chemical, Biological, and Radiological)
- Communications Equipment (Wireless Video and Radio)
- Decontamination (Berms, Foam, and Tents)
- Robotics (EOD and Search and Rescue)
- Thermal imagers and Night Vision Equipment





Selection of Equipment

Equipment



Main Menu

Products Organizations Points of Contact Log Out

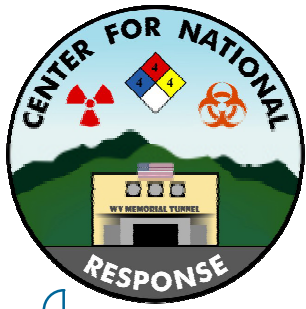
SAIC

Hello Jon, welcome.

Main Menu for stewarttjo

- Products
 - [New Product](#)
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 - [Product List](#)
- Organizations
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 - [My Organizations](#)
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the CNR
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Otep Process

Limited Distribution



Test Series:

Center for National Response Operational Test Plan

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Operational Testing

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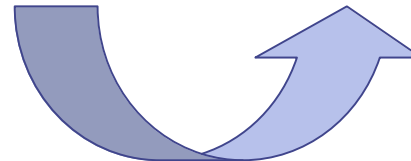
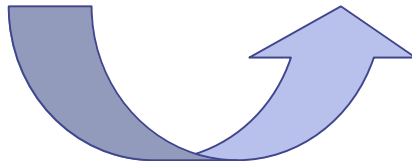


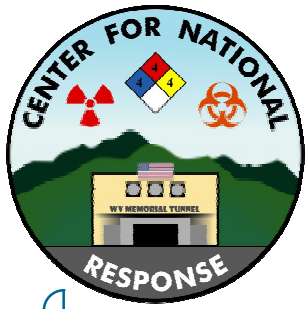
Center for National Response Operational Test Report

Test Series CNR0X-XX-XX

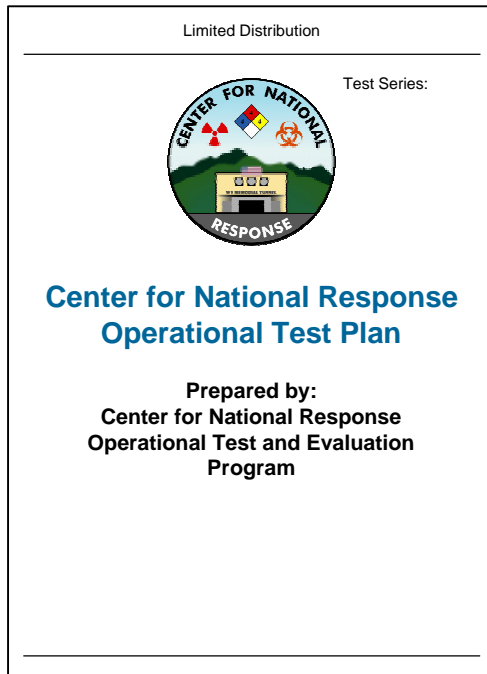
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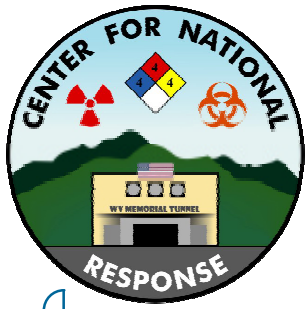




Test Plan



- Analyze all available information on the equipment
- Determine the goals and standard operating procedures (SOPs) of the test operators
- Subject matter experts are consulted regarding test procedures
- Script procedures and protocols so that they are (1) set in a realistic WMD response scenario, (2) bound within the documented capabilities of the equipment, and (3) bounded within the test operators SOPs

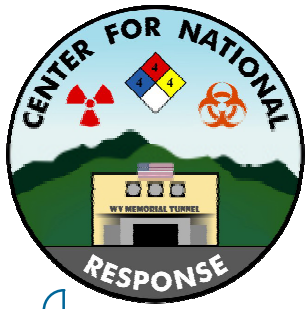


Operational Test and Evaluation



Operational Testing

- Independent tests are conducted on a selected day and /or incorporated into an exercise
- Prior to testing, the manufacturer provides briefing, demonstration, and hands on training
- Occurs in a controlled environment
- All testing conducted by appropriate, qualified emergency responders
- OTEP controllers record all relevant results and interactions



Test Report

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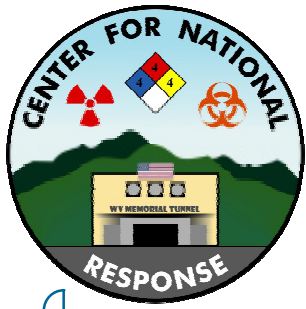
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- All relevant test conditions, outcomes, measurements, findings, and results are provided
- Focuses on the capabilities and limitations of the UUT
- “Just the facts ma’am” approach
- Final test report is sent to the NGB, the manufacturer, and the test operators
- Goal is to place all Test Reports in the public domain



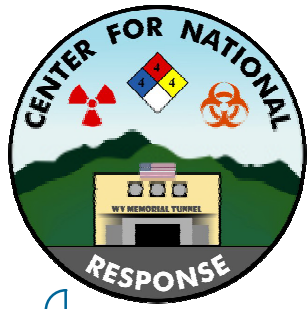
OTEP Results

Summary of results per emergency responders:

- Finding equipment does not meet their needs, expectations, or SOPs *before* they purchase it
- Selecting better equipment to meet their needs
- More aware of equipment available to them

Summary of results per equipment manufacturers:

- Redesign of equipment
- Development of new applications for equipment



Point of Contact

The CNR is committed to providing the best operational test and evaluation environment to meet your needs. For additional information on operational testing of equipment at the CNR, please contact:

Jonathan Stewart, Program Manager
Operational Test and Evaluation Program
8301 Greensboro Drive, Suite 120
McLean, Virginia 22102
Telephone: 703.676.5602
Fax: 703.676.2050
E-mail: jonathan.w.stewart@saic.com
Web: www.centerfornationalresponse.com



Questions?

*Prepared For Tomorrow
Through Testing Today*

Thank you.