

Enhancing Security and Emergency Effectiveness through Total Team Preparedness

Challenge

The U.S. government recognizes that our nation's infrastructure is increasingly vulnerable to terrorist activity and other induced events. Managers of critical infrastructure are learning what their military counterparts have known for years—Training in a near-real environment is essential. Proper facilities, training, and information management will dramatically improve safety, response, and recovery for all types of adverse events.

Solution

The noncommissioned, nonradioactive (cold) Experimental Gas-Cooled Reactor, constructed during the 1960s and located at the Oak Ridge National Laboratory (ORNL), is available for use in nuclear power plant (NPP) emergency preparedness training. The site offers a variety of training opportunities in a real reactor setting. Also available at the site are conference rooms, video-conferencing capability for exercise training classes or command center operations, office space, large experimenter cells for testing new processes, and space for display of various security systems technologies. To facilitate decision making through all critical phases of planning, exercises, training, operations, and recovery for emergency management and response, the Nuclear Science and Technology Division (NSTD) can support an integrated set of six core modules:

- **Validation for Tabletop and Simulation Exercises**
- **Vulnerability Assessment and Security Procedure Validations**
- **Situational Awareness**
- **Event Mitigation**
- **Event Recovery/Remediation**
- **Consequence Management**

Features

The cold NPP at ORNL provides the following unique features:

- True-to-life environment for training
- Demonstration and testing site for security technologies designed for Homeland Security applications
- Realistic setting for preincident planning and the tight integration of these plans into operations
- Customized training to meet user needs
- Ability to develop strategic, operational, and tactical situational plans
- Support for development of integrated communications between agencies
- A facility to test the applications and functionality of the latest situational awareness software
- Environment to test hypotheses to facilitate more informed selection of technology
- Integration of resource management programs to enhance response efficiency

ORNL can provide integrated planning, training, logistics, and operations support to facility and emergency managers as well as to field personnel.

For More Information

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Benefits

- Enhanced NPP infrastructure security
- Development of total emergency preparedness and response infrastructure
- Improved training and situational awareness
- Improved communications
- Remote site for controlled training and testing
- Reduced costs for site remediation through advanced training

Potential Customers

Nuclear power plant operators
Private security force companies
State Homeland Security agencies
Department of Defense

Potential Strategic Partners

Crisis Prep Services, LLC
E2 Consulting
Safe Skies

