

Practical Experiences In Developing Nuclear/Radiological Incident Awareness And Response Training

50th Annual Meeting
of the Health Physics Society

July 14, 2005

Spokane, WA

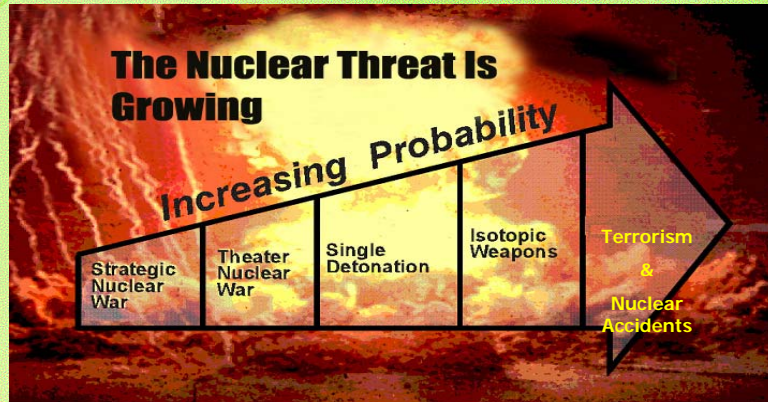
By

John J. Lanza, MD, PhD, MPH, FAAP
Florida Department of Health

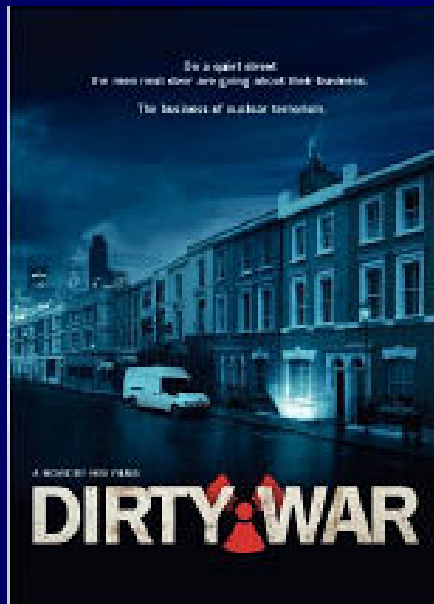
OUTLINE

- The Nuclear Threat
- Perception of Rad Issues
- Development of NIT
- Further Training Recommendations
- Homeland Defense Equipment Reuse Program (HDER)

Safeguard Americans from Nuclear Attack



Three Mile Island



Critical Assembly

9/8 pm Tonight

In this heart-pounding NBC original movie, four globally minded college students secretly build a nuclear device just to prove how easy it is.

Wednesday, July 23



TONIGHT

8/7 PM

8:30/7:30/PM

9/8 PM

Perception Of Radiation Issues

- "I don't know anything about it, but I know I don't like it."
- West Palm Beach Incident

Development Of Nuclear Incident Training (1)

- Attended two AAHP Courses:
 - 2003 HPS Mid Year Meeting in San Antonio
 - Materials and Methods for Training Responders to Radiation Emergencies
 - Materials and Methods for Informing the Public of Simple Protection Actions in Radiation Emergencies
- Sent Presentation Slides to Health Department Directors in Florida

Development Of Nuclear Incident Training (2)

- Developed day long Awareness/Hands-on Training Program designed to provide an introduction into the basic concepts of radiation health/protection, the threat of the use of nuclear/radiological devices, and the effect on the public/first responder if nuclear/radiological terrorism should occur.

Development Of Nuclear Incident Training (3)

- Directed towards audience consisting of: Physicians, Nurses, Physician Assistants, Emergency Management, EMS, Fire/ Rescue, Law Enforcement, Hospital Staff, Public Health Staff, and the Media.
- Provided CME's / CEU's

NUCLEAR INCIDENT TRAINING AGENDA

What is the Threat of Nuclear Terrorism?

John J. Lanza, MD, PhD, MPH, FAAP
Florida Department of Health

Basic Radiation Health

Wesley Bolch, PhD, PE, CHP, University of Florida

Radiation Biology

Wesley Bolch, PhD, PE, CHP, University of Florida

Effects of Nuclear Weapons/Reactor Events

John Auxier, PhD, CHP, Auxier & Associates

Symposium Agenda continued

Radiation Injuries: A Medical Perspective

John J. Lanza, MD, PhD, MPH, FAAP
Florida Department of Health

Radiological/Nuclear Terrorism: What is the Threat & What Instrumentation is Needed for Prevention and Emergency Response?

John Smalling, JPS Consulting

Defining and Explaining Dirty Bombs

Joseph Alvarez, PhD, CHP, Auxier & Associates

Experiencing and Lessons for Managing Persons Contaminated with Radioactive Materials

Ken Miller, Milton S. Hershey Medical Center

Symposium Agenda continued

Psychological Issues in Preparing the Public to Reduce Injury and Trauma After Radiologic Attack

James Barnes, CHP, Rocketdyne Propulsion & Power/The Boeing Company

Communicating with the Public and Media

Andy Karam, PhD, CHP, University of Rochester

Florida Department of Health Radiation Control Program

Harlan Keaton, BS, Administrator
Florida Department of Health, Bureau of Radiation Control

FEMA / EMI COURSES

IS – 3	Radiological Emergency Management
IS – 100	Introduction to ICS
IS – 195	Basic ICS
IS – 301	Radiological Emergency Response
IS – 700	National Incident Management System (NIMS)
IS – 800	National Response Plan (NRP)

Homeland Defense Equipment Reuse (HDER) Program

Enhancing the domestic preparedness capabilities of our nation's emergency responders by:

- Providing excess radiological detection instrumentation and other equipment to emergency responder agencies nationwide
- Providing training and local long-term technical support on this equipment to the emergency responders

A Collaborative Effort

- U.S. Department of Homeland Security (DHS) Office for Domestic Preparedness (ODP)
www.ojp.usdoj.gov/ODP/equipment.htm
- U.S. Department of Energy (DOE), Office of Assets Utilization-National Center of Excellence for Materials Reuse (AU/NMR)
- U.S. Navy (USN), Naval Sea Systems Command (NAVSEA)
- Health Physics Society (HPS)



HDER Program Details

- Responder agencies obtain excess radiological detection
- Equipment is rehabilitated and provided at no cost
- Training on many of the equipment items is available through the ODP Domestic Preparedness Equipment Technical Assistance (DPETAP) Program
- Long-term Technical Support is available through a partnership with the Health Physics Society

Participation In The HDER Program

- ODP utilizes its established relationships with governor-designated State Administrative Agencies (SAAs)
- SAA HDER POCs are provided with a list of available instrumentation and equipment, as well as form for requesting the desired items and any associated training and local technical support via ODP's secure web portal
- ODP coordinates with DOE on the delivery of the equipment, with DPETAP to schedule the requested training, and with HPS on the delivery of local technical support

HDER Program Equipment

- Excess instrumentation and equipment available through this program includes:
Hand-held dose rate meters (e.g., ionization chambers), electronic pulsers, microrem meters, count rate meters used for contamination surveys, instrument probes (i.e., alpha and gamma scintillation and Geiger Mueller (G-M) probes), pocket ionization chambers (self-reading pocket dosimeters), portable beta/gamma survey meters (HDERG-01) and personal protective equipment (full and half-face respirators)
- Additional instrumentation and equipment items have been and will continue to be added as the program expands and matures.

HDER Program Training

- Training on the use of the equipment is available through ODP's Domestic Preparedness Equipment Technical Assistance Program (DPETAP)
 - A comprehensive, national equipment technical assistance program for emergency responders conducted in partnership with the U.S. Army's Pine Bluff Arsenal
 - Assists responders in the proper operation and maintenance of their radiological, chemical, and biological detection and response equipment
 - Provides detailed technical information and hands-on equipment operation and maintenance training
 - Training provided on-site through mobile training teams

HDER Program Technical Support

- Local long-term technical support is available through a partnership with the Health Physics Society (HPS) as part of the HPS commitment to Homeland Security
- Volunteers from local chapters are available to provide:
 - Initial operability check of the instrumentation upon its delivery
 - Annual field checks and basic maintenance
 - Hands-on refresher training
 - Local source of expertise for questions regarding instrumentation

HPS Volunteer Training Manual

The HPS Volunteer Training Manual provides local chapter members and volunteers information about the HDER Program that will assist them in their support of first responders that need radiological technical support assistance.

- HDER Program Fact Sheets;
- A HDER Program Overview Briefing;
- A HDER Services Management Tool User Guide;
- HPS and State Administrative Agency (SAA) Points of Contact (POC);
- Equipment Field Check Protocols; and
- Refresher Training Materials and Updates.

HDER Status (06/08/05)

- States involved: 28
- HPS Involvement: 12 states; 10 requested tech assistance
- Training: 36 sessions
- Recent Expansion to urban areas:
 - 29 urban areas
 - 7 pending FY 2005 Q3
- Equipment delivery total: 17,932 items
- Value of equipment: \$6,425,114

Contact Information

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