

*NCRP Homeland Security Recommendations
Related to Nuclear/Radiological Terrorism:*
**“Key Decision Points and Information Needed by
Decision Makers in the Aftermath of a Nuclear or
Radiological Terrorism Incident”**

DHS FY08 Standards Program Review

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Homeland
Security



NCRP Goals in Homeland Security and Importance of Current Report Project

Key Elements of U.S. Readiness for Radiological Terrorism



Technical Approach:

- Establish committee of subject-area experts to review world's literature and prepare focused technical report
- Conduct rigorous peer review of draft report and make recommended report revisions
- Publish document as NCRP Report after 30 months and distribute worldwide

Scope Statement:

- This report will provide the framework for an effective response against nuclear or radiological terrorism incidents by describing: (1) pre-event planning processes; (2) essential policy recommendations; (3) key decision points and issues to be addressed; (4) actions to protect public health, safety, and security; (5) critical information needed by decision makers in all phases of response

Order of Magnitude Cost and Schedule:

- FY08 - \$169K
- FY09 - \$210K
- FY10 - \$94K

Deliverable: Published NCRP Report in 30 months

POC Information:

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Project Overview

- Many reports have been issued by international (IAEA, ICRP), national (DHS, NCRP), and state-level (CRCPD) organizations on response to nuclear/radiological terrorism incidents
- These documents provide: (1) technical and public policy bases for planning responses, and (2) evaluation of critical roles of adequate planning, preparation and availability of assets required for timely and effective emergency response actions
- A third essential component of emergency preparedness and consequence management is to develop conduct of operations recommendations that are concise and easily understood by key emergency response decision makers (on-site commanders, asset managers, and officials responsible for decisions affecting public health, safety, and security)

Project Overview (con't)

- NCRP preparing report with two primary components:
 - (1) recommendations on key decision points, including levels of radiation doses, dose rates, and concurrent hazards (e.g., fire) at which response must be initiated, and the nature, timing and extent of response
 - (2) information needed by decision makers to protect health and safety of emergency responders and public, and to ensure security of affected area
- Stakeholder audience: city managers, emergency planners and responders (e.g., police and fire departments, HAZMAT), state radiation control program directors, and federal-level planners and responders

Project Overview (con't)

- **Report activity funded by DHS in August 2007 and committee formed by September 2007**
- **NCRP Scientific Committee 2-2 met and began drafting report in October 2007:**
 - **Chairman: Dr. John W. Poston, Sr.**
 - **Drafting committee contains 12 members representing national laboratories (LLNL, BNL), federal agencies (DHS, NRC, DOE, OSTP), city/county emergency responders (LA, NYC), state responders (WA, FL), medical emergency planners and responders, international organizations**

Project Objectives

FY06-09 (Recent Accomplishments and Near-Term Goals)

- NCRP has recently completed two publications of importance in nuclear/radiological terrorism response planning and weapons detection:
 - Commentary No. 19 (December 2005): *Key Elements of Preparing Emergency Responders for Nuclear and Radiological Terrorism*
 - Commentary No. 20 (December 2007): *Radiation Protection and Measurement Issues Related to Cargo Scanning with Accelerator-Produced High-Energy X Rays*
- Goal in new “decision makers” report is to complete drafting of the report and extensive peer review in FY2009

NCRP Publications on Homeland Security: Report 138 and Commentaries 16, 17, 19, 20 Available at <http://NCRPpublications.org>

NCRP COMMENTARY No. 20

**RADIATION PROTECTION
AND MEASUREMENT ISSUES
RELATED TO CARGO SCANNING
WITH ACCELERATOR-PRODUCED
HIGH-ENERGY X RAYS**



National Council on Radiation Protection and Measurements

Project Objectives (con't)

FY10-11 (Longer-Term Goals)

- **Publish “decision makers” report by February 2010**
- **Initiate preparation of new reports related to:**
 - detection and deterrence of transport of weapons-grade materials,**
 - efficient response and consequence management of nuclear/radiological accidents and incidents (including mitigation and treatment of traumatic injuries and psychological effects), and**
 - optimization of recovery and site restoration and cleanup of affected sites**

Project Requirements Identification

- Identify and analyze key literature and recommendations from U.S. and international sources on planning guidance and response to nuclear/radiological terrorism
- Characterize differences in effective responses to nuclear *versus* radiological terrorism incidents
- Define key decision points and roles of decision makers at all levels of response
- Define preparedness requirements (medical, instrumentation, communication strategies, coordination of responses at local, state and federal levels, mutual aid agreements)
- Define immediate and protracted health protection actions, treatment of affected population, triage criteria, and post-event monitoring
- Training and requirements for realistic field exercises
- Preparation of easily used and readily understood information on response actions (e.g., CD and/or web-based info) for planning, training, and field deployment (avoiding technical jargon)

Technical Approach/Issues/Challenges

- **Obtain input on key issues and needs of planners and decision makers at local, regional, state and national levels through correspondence and in-person interviews**
- **Obtain buy-in from stakeholders on completeness and utility of report for preparedness, training and in-field applications**
- **Prepare concise, user-friendly version of discussion of key decision points and recommended actions by decision makers for effective response and mitigation of effects of nuclear/radiological terrorism incident (CD and/or web-based information)**

Milestone Status

Task	Completion Date
Project start	August 2007
Committee formed and first meeting held	October 2007
Report drafting and four meetings of committee	February 2008 – February 2009
Draft report completed for initial peer review	April 2009
Draft report revised and submitted for Council review	June 2009
Final revisions completed in response to Council reviews	October 2009
Final editorial work performed and report published	February 2010

Project Budget

- **Total Funding: \$483,450**
- **Funding Expended to Date: \$152,955**
- **Funds Remaining (after billed funds received): \$330,500**
- **FY08 Funding: \$170,000**
- **Request for Out-Years: Remainder of Funds in FY09-FY10**