

Conference of Radiation Control Program Directors (CRCPD) Board Brief to NRC Commissioners

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Topics

- Collaboration successes
- Offsite Emergency Preparedness for Decommissioned and Next Generation Reactors
- Radiological Operations Support Specialist (ROSS) Program

Collaboration Successes

- CLIA Letter
- Non-military radium MOU with EPA
- Training Support

Offsite Emergency Preparedness for Decommissioned and Next Generation Reactors

CRCPD supports graded approach to offsite EP

- Recognize Emergency Preparedness (EP) represents a significant cost and resource driver
- Support integration of Radiological Emergency Plan (REP) organization into an all-hazards Incident Command Structure (ICS)
- Degree of safety should be commensurate with risk
 - The public helps define acceptable risk
- Do not expect EP to be supported at same level as with operating light water reactors (LWRs)

Myopic focus on EPZ size should not overly drive all other EP requirements

- Special and unique hazards require unique response capabilities/preparedness
- General All-Hazards capabilities are not sufficient to address potential radiological hazards
- ORO radiological capabilities require licensee support
 - Other funding is challenged
- Next generation reactors may have unique and unfamiliar hazards (different chemical hazards, source terms, etc.)
- Due to the loss of experienced Offsite Response Organization (ORO) personnel, additional support will be required to respond to radiological events
- Homeland security response capabilities are not wholly consistent with those required for nuclear power plant (NPP) response

NPP preparedness is a public confidence issue

- Despite analytical calculations, the public expects a “trust but verify” approach should any accident occur at a NPP
- At a minimum, sampling and analysis of any offsite release would be expected
- History has taught us that physics has a better imagination than designers (Salem ATWS, Browns Ferry, TMI, Fukushima, etc.)
- Licensees should provide support for offsite preparedness as part of their obligation to local communities

State and Local stakeholders should have meaningful input

- All events are local - Municipalities must deal with impacts
- CRCPD can provide consensus input and local insights
- Experience in coordination and outreach from Naval Nuclear Power Program and Independent Spent Fuel Storage Installations (ISFSIs)
- ROSS offers opportunity for state/locals to provide mutual aid and support to control costs
- Meaningful engagement minimizes potential for alternate strategies

Radiological Operations Support Specialist (ROSS) Program



ROSS

- During Radiological Incidents: *SME Demand >> SME Resources*
- Radiological Operations Support Specialist (ROSS)
 - Joint NNSA – FEMA – CRCPCD effort
 - State/Local SME (FEMA-typed) asset
 - Translate between local and federal response organizations
 - Technical Interpreter, - Incident Commander's Health Physicist
 - Provide the expertise necessary to clearly explain the implications of modeling, measurement, and analysis methods as well as, health risks and hazards existing during a radiological incident
 - Prepared for diverse radiological events

Building the ROSS Cadre

- Over 100 trained since 2016
 - Many ROSS are retired or private sector SMEs
- Qualification requires exercise participation as ROSS
 - Vibrant Response (IND)
 - Silent Thunder (RDD)
 - Cobalt Magnet (RTG)
 - NPP and CRC exercises
 - Southern Exposure
 - Duane Arnold
 - Millstone (including CRCs)
 - Pilgrim



Flexible, Cost-Effective Enhancement to REP

- Incorporating ROSS volunteers into Rad Emergency planning provides a simple and cost effective enhancement to preparedness.
 - Effective and flexible alternative to leverage additional radiological SMEs
- State response procedures should incorporate guidance for requesting and activating ROSS
- Cadre management handled by the FEMA-ROSS steering committee
- ROSS are being successfully used in graded exercises

Support for ROSS Program

- Incorporate in Emergency Response Plans
- Exercise Support for ROSS
- Credentialing
 - Access to training and tools for non-government ROSS
- Encourage the opportunity
- Questions:
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 - Represents the CRCPD on the ROSS Steering Committee