

New England Compact on Radiological Health Protection

INTERSTATE RADIATION INCIDENT PLAN

11/12/2019
N.E. Radiological Health Committee

NEW ENGLAND INTERSTATE RADIATION INCIDENT PLAN

1. AUTHORITY

This plan is authorized by the New England Compact on Radiological Health Protection, henceforth the Compact, as approved by the Legislatures and Governors of the several party States. The Act was first passed in the State of Maine on March 1, 1967 followed by Vermont on March 14, 1967, Rhode Island on April 5, 1967, New Hampshire on July 18, 1967, Massachusetts on December 30, 1967, and Connecticut on May 24, 1969. The Compact became official with the passage of the second cooperating State. The Compact, as signed into law in each of the States, followed essentially the same format. The Compact is composed of members from the six New England Radiation Control Program Directors, with federal liaisons from the Food and Drug Administration (FDA) Regional Radiological Health, the Department of Energy Radiological Assistance Program (DOE RAP) Region 1, and the U.S. Environmental Protection Agency (EPA) Region 1. The Compact also allows that any state not mentioned above that is contiguous to any party state may become a party to this Compact by enacting the same statute in their respective state.

References

The New England Interstate Radiation Assistance Plan is intended to comply with applicable laws, standards and regulations, including but not limited to:

- Connecticut General Statute 22a-159 The Connecticut New England Compact on Radiological Health
- Connecticut General Statute 22a-160 Formulation and maintenance of radiation incident plan
- Maine Revised Statutes Title 22 Chapter 163 The New England Compact on Radiological Health Protection
- Massachusetts General Laws Chapter 801 of Public Acts of 1967, The New England Compact on Radiological Health Protection
- New Hampshire Revised Statute Annotated (RSA) 125-B New England Compact on Radiological Health Protection
- The General Laws of Rhode Island 23-12.5 The New England Compact on Radiological Health Protection
- Vermont Statutes Annotated (VSA) The New England Compact on Radiological Health Protection Title 18, Chapter 31
- NCRP Report No. 138 Management of Terrorist Events Involving Radioactive Material (2001)

- NCRP Report No. 165 Responding to a Radiological or Nuclear Terrorism Incident: A Guide for Decision Makers (2010)
- NCRP Report No. 175 Decision Making for Late-Phase Recovery from Major Nuclear or Radiological Incidents (2014)
- NCRP Report No. 179 Guidance for Emergency Response Dosimetry (2017)
- NCRP Commentary No. 19 Key Elements of Preparing Emergency Responders for Nuclear and Radiological Terrorism (2005)
- NCRP Commentary No. 28 Implementation Guidance for Emergency Response Dosimetry (2019)

2. CONCEPT OF OPERATIONS

The purpose of this plan is to delineate the manner in which the Compact will be implemented. The purpose of the Compact is to:

- (a) Promote the Radiological Health Protection of the public, and individuals within party states,
- (b) Provide mutual aid and assistance in radiological health matters including, but not limited to, radiation incidents and preventative radiological/nuclear detection; and
- (c) Encourage and facilitate the efficient use of personnel and equipment by furthering the orderly acquisition and sharing of resources useful for programs of radiation protection.

This plan outlines the manner in which this interstate mutual aid and assistance and exchange of personnel, equipment, and services will be accomplished. This plan includes specific information on the channels of communication among the states, the availability of equipment, laboratory capabilities, the procedures for requesting assistance from the party states and notifying party states of radiological incidents, as well as clarification on the procedures of the loan of personnel and equipment, and financial obligations encountered.

3. DELEGATION OF AUTHORITY

The Compact Secretary, henceforth the Secretary, shall be the primary contact person in the State of Connecticut. The Compact Administrator or designee for each party state shall notify the Secretary of the Compact of the identity of any subordinate or subordinates to whom his authority as Compact Administrator has been delegated. (See Appendix A) This is in accordance with the paraphrase of each compact holder's State statutes:

Compact Administrators

Each party state shall have a compact administrator who shall be the head of the state agency having principal responsibility for radiation protection, and who:

- 1. Shall coordinate activities pursuant to this compact in and on behalf of his state.*

2. *Serving jointly with the compact administrators of the other party states, shall develop and keep current an interstate radiation incident plan; consider such other matters as may be appropriate in connection with programs of cooperation in the field of radiation protection and allied areas of common interest; and formulate procedures for claims and reimbursement.*

4. POINTS OF EMERGENCY CONTACT

Each Compact Administrator and Delegate shall provide the home or mobile as well as office telephone number of himself or herself and/or such staff members as he or she may designate as emergency contacts. In addition, he or she shall provide a second channel of communication that will be operative 24 hours a day, seven days a week, and shall arrange within his or her state for emergency communications to reach a responsible staff member. Each Compact Administrator shall notify the Secretary of the above designation; and, this information shall be updated at least annually in Appendix A of this plan.

5. INTEROPERABILITY

The Compact provides the necessary mutual aid/partnership agreement between the members and federal partners to ensure that preparedness, operations and response to nuclear/radiological incidents is consistent with the National Incident Management System (NIMS) and the Incident Command System (ICS). This enables effective and efficient incident management by integrating a combination of facilities, equipment, personnel, procedures, and communications operating within a common organizational structure, designed to enable effective and efficient incident management. The use of ICS provides standardization through consistent terminology and established organizational structures. The Compact members shall ensure any protocols, processes, and procedures are compatible with ICS.

In accordance with the Federal Emergency Management Agency's (FEMA) "Nuclear/Radiological Incident Annex to the Response and Recovery Federal Interagency Operational Plans" (NRIA) (October 2016 – Final), the RadResponder Network is the national standard and whole community solution for the management of radiological data. It is a product of collaboration between FEMA, Department of Energy (DOE) / National Nuclear Security Administration (NNSA), and the Environmental Protection Agency (EPA). RadResponder's flexible architecture enables organizations to rapidly and securely record, share and aggregate large quantities of data while managing equipment, personnel, interagency partnerships, and multijurisdictional event space. In order to ensure

interoperability with Compact partners and federal response agencies, each Compact Administrator or Delegate shall ensure state response protocols:

- Share radiological data with Compact and federal partners in a timely manner. The use of the RadResponder Network during a response to a radiological or nuclear emergency ensures radiological data is readily shared in accordance with the NRIA.
- Establish a member organization in RadResponder to access data entered by Compact and federal response partners and provide access to the other Compact members upon request.
- Ensure information on available field survey equipment is listed for their RadResponder organization or otherwise provided to other Compact members and federal partners and updated annually or more often if conditions warrant.

Upon request for personnel assistance, the requesting Compact member or Delegate shall (using Appendix E as a guide):

- Ensure that Compact personnel are properly briefed on safety, dosimetry, and personnel protective equipment (PPE) requirements. For large incidents or specialized requests, it is anticipated that requested personnel will respond with their own vehicles, survey instrumentation, dosimetry, and PPE.
- Ensure that Compact personnel are properly integrated into the state's ICS. Specifically, chain of command will be specified for each responding member.
- Identify and, if necessary, provide appropriate communication capabilities to ensure the ability to communicate with essential personnel, other agencies and organizations. The system should be able to operate within 1 to 3 hours.
- Ensure Compact personnel have necessary procedures and other written guidance
- Ensure Compact personnel assisting are provided access to facilities required by the response
- Ensure that all equipment provided is either properly calibrated or noted any limitations to equipment use (such as qualitative use only)
- Ensure that Compact personnel are briefed on state protocols for emergency response including identification and use of emergency lights and sirens (if applicable)

6. CAPABILITIES

Each Compact Administrator or Delegate shall ensure that their member radiological response capabilities are provided to the Secretary. These capabilities shall be listed in Appendix B of this plan and updated at least annually. Each member shall notify Compact partners of any significant changes to their response capabilities.

7. REQUEST FOR ASSISTANCE

- a) Upon determination by a Compact Administrator or Delegate that a radiation incident has taken place within his/her state of a magnitude sufficient to require additional personnel, services, or equipment, the Compact Administrator or Delegate should contact the Secretary to request such aid, as he/she deems necessary. The Secretary shall contact such other party state(s) to request aid as he/she judged to be best able to assist under the circumstances using Appendix C or equivalent facsimile. The state(s) receiving such a request should respond with personnel, services, and/or equipment to the best of their ability, while maintaining sufficient capability for the protection of the public health within their own state. At the time of the request, said personnel should be advised of their assigned tasks and of the location and individual (including contact information) to which they are to report. Provisions for further briefing, when necessary, may also be arranged at the time of such request.
- b) Any state responding to a request for aid under this compact shall operate while in a party state, in accordance with the radiation incident plan and procedures of that state.
- c) Reimbursement by the state receiving aid or assistance under this Article for any loss or damage to, or expense incurred in the operation of any equipment; for cost of all materials, transportation and maintenance of officers, employees, and equipment; and, for any compensation or benefits for injuries or death incurred by officers or employees of an aiding state shall be in accordance with Section 11 and this paraphrase of each compact holder State's statutes:

Liability

1. *Whenever the officers or employees of any party state are rendering outside aid pursuant to the request of another party state under this compact, the officers or employees of such state shall, under the direction of the authorities of the state to which they are rendering aid, have the same powers, duties, rights, privileges and immunities as comparable officers and employees of the state to which they are rendering aid.*
2. *No party state or its officers or employees rendering outside aid pursuant to this compact shall be liable on account of any act or omission on their part while so engaged, or on account of the maintenance or use of any equipment or supplies in connection therewith.*
3. *All liability that may arise either under the laws of the requesting state or under the laws of the aiding state or under the laws of a third state, on account of or in*

connection with a request for aid, shall be assumed and borne by the requesting state.

4. *Any party state rendering outside aid to cope with a radiation incident shall be reimbursed by the party state receiving such aid for any loss or damage to, or expense incurred in the operation of any equipment answering a request for aid, and for the cost of all materials, transportation and maintenance of officers, employees and equipment incurred in connection with such request: provided that nothing herein contained shall prevent any assisting party state from assuming such loss, damage, expense or other cost or from loaning such equipment or from donating such services to the receiving party state without charge or cost.*
5. *Each party state shall provide for the payment of compensation and death benefits to injured officers and employees and the representatives of deceased officers and employees in case officers or employees sustain injuries or are killed while rendering outside aid pursuant to this compact, in the same manner and on the same terms as if the injury or death were sustained within the state for or in which the officer or employee was regularly employed.*

8. NOTIFICATION OF COMPACT MEMBERS

The notification to the primary contact person for each party state under this plan shall be made directly by the Compact Administrator or Delegate; and, such notification shall also be made to the Secretary. The Secretary shall maintain a means of rapidly notifying Delegates. The primary contact person for each member is responsible for ensuring notification of their Compact Administrator and Delegates.

Incidents at Nuclear Power Plants shall be reported using the NRC Event Classification System. Other radiological incidents shall be reported per Appendix D to ensure consistency of response by members. When notified of a radiological emergency and Compact assistance is requested, the requesting state shall provide the Secretary with a detailed description from the requesting state of the incident using Appendix E to ensure responding members are properly briefed.

9. LOAN OF FACILITIES AND EQUIPMENT, LABORATORY ANALYSIS AND EXCHANGE OF DATA

- a) Facilities and equipment specified in this plan may be loaned in accordance with either of the two following situations;
 - i. one in which the requested state is not affected by the incident in question;

- ii. one in which the requested state is or could possibly be affected by the incident in question.

The requesting state shall reimburse the lending state in accordance with section 11.

- b) Laboratory analyses may be performed by the requested state under conditions specified in paragraph (a) above.
- c) Requests for assistance, exchange of data or other pertinent information may be accomplished utilizing the attached plan forms (or electronic facsimile) the Secretary. Transmission shall be by the most expeditious means of communication available.

This is in accordance with the following paraphrase of each compact holder State's statutes:

Facilities, Equipment and Personnel

1. *Whenever a department, agency or officer of a party state responsible for and having control of facilities or equipment designed for or useful in radiation control, radiation research, or any other phase of a radiological health program or programs determines that such a facility or item of equipment is not being used to its full capacity by such party state, or that temporarily it is not needed for current use by such state, a department, agency or officer may, upon request of an appropriate department, agency or officer of another party state, make such facility or item of equipment available for use by such requesting department, agency or officer. Unless otherwise required by law, the availability and use resulting therefore may be with or without charge, at the discretion of the lending department, agency or officer. Any personal property made available pursuant to this paragraph may be removed to the requesting state, but no such property shall be made available, except for a specified period and pursuant to written agreement. Except when necessary to meet an emergency, no supplies or materials intended to be consumed prior to return shall be made available pursuant to this paragraph.*
2. *In recognition of the mutual benefits, in addition to those resulting from {statute} article IV, accruing to the party states from the existence and flexible use of professional or technical personnel having special skills or training related to radiation protection, such personnel may be made available to a party state by appropriate departments, agencies and officers of other party states: Provided that the borrower reimburses such party state regularly employing the personnel*

in question for any cost of making such personnel available, including a prorated share of the salary or other compensation of the personnel involved.

3. *Nothing in this article shall be construed to limit or to modify in any way the provisions of {statute} article IV of this compact.*

10. LOAN OF PERSONNEL

Professional or technical personnel having special skills or training related to radiation protection or expertise may be made available to a party state upon request. Such requests should be transmitted through the Secretary, and have approval of the respective Compact Administrators or Delegates. The requesting state shall reimburse the lending state in accordance with section 11 of this plan and with the paraphrase of each compact holder State's statutes:

Duties of States.

1. *It shall be the duty of each party state to formulate and put into effect an intrastate radiation incident plan which is compatible with the interstate radiation incident plan formulated pursuant to this compact.*
2. *Whenever the compact administrator of a party state requests aid from the compact administrator of any other party state pursuant to this compact, it shall be the duty of the requested state to render all possible aid to the requesting state which is consonant with the maintenance of protection of its own people. The compact administrator of a party state may delegate any or all of his authority to request aid or respond to requests for aid pursuant to this compact to one or more subordinates, in order that requests for aid and responses thereto shall not be impeded by reason of the absence or unavailability of the compact administrator. Any compact administrator making such a delegation shall inform all the other compact administrators thereof, and also shall inform them of the identity of the subordinate or subordinates to whom the delegation has been made.*
3. *Each party state shall maintain adequate radiation protection personnel and equipment to meet normal demands for radiation protection within its borders*

11. CHARGES FOR EQUIPMENT AND PERSONNEL

- a) The state receiving aid or assistance shall reimburse the state rendering aid or assistance for any loss or damage incurred in the operation of any equipment.
- b) The state receiving aid or assistance shall pay for the cost of transporting and maintaining all officers and employees of the state rendering aid in accordance with the rendering state's Rules and Regulations, or those of the state receiving aid -- whichever is greater.
- c) The party state borrowing personnel shall reimburse the state loaning the personnel at the same annual rate as the personnel are receiving in their own state. The borrowing state shall pay for the cost of maintaining such personnel in accordance with section 11, paragraph (b).
- d) Nothing contained herein in sections 9, 10, and 11 shall prevent any assisting party state from assuming the costs incurred under paragraphs (a), (b), and (c) of section 11 and the paraphrase of each compact holder State's statutes:

Liability

- 1. Any party state rendering outside aid to cope with a radiation incident shall be reimbursed by the party state receiving such aid for any loss or damage to, or expense incurred in the operation of any equipment answering a request for aid, and for the cost of all materials, transportation and maintenance of officers, employees and equipment incurred in connection with such request: provided that nothing herein contained shall prevent any assisting party state from assuming such loss, damage, expense or other cost or from loaning such equipment or from donating such services to the receiving party state without charge or cost.*
- 2. Each party state shall provide for the payment of compensation and death benefits to injured officers and employees and the representatives of deceased officers and employees in case officers or employees sustain injuries or are killed while rendering outside aid pursuant to this compact, in the same manner and on the same terms as if the injury or death were sustained within the state for or in which the officer or employee was regularly employed*

12. UPDATES AND REVISIONS

The Secretary shall be responsible for updating this Plan on an annual basis. In addition, the members of the Compact shall notify the Secretary of changing situations that may affect any of the items covered under this Plan or the Compact. If needed, the Secretary can form a subcommittee to rewrite appropriate sections of this Plan. Revised appendices will be forwarded to all Plan holders at the beginning of each calendar year. Each Compact Administrator or Delegate shall ensure their equipment capabilities are provided to other Compact members or accurately listed in RadResponder and the capabilities listed in this Plan accurately reflect the member state's resources. Changes to this Plan shall be approved by a majority vote of the member states.

13. PUBLIC NOTIFICATION

The state with the lead on the radiological incident shall have the lead responsibility for communications related to the incident and should ensure that its public notification systems are implemented. These notification systems should be coordinated through the ICS and be in place to readily provide education and to alert the public during a radiological incident. Other members of the Compact shall ensure that notifications and inquiries are coordinated through the lead member so as to maintain consistency.

14. TRAINING

The Compact shall conduct annual joint training to exercise proficiency of Compact response. This training shall occur in member states on a rotating basis.

15. RECOGNITION OF QUALIFICATIONS AND CERTIFICATIONS

Each Compact Administrator or Delegate is responsible to ensure that personnel operating within the member state is appropriately qualified to perform the tasks assigned. The state requesting aid shall ensure any required personnel qualifications and equipment certifications are communicated to the Compact members providing aid. The Compact Administrators or Delegates providing aid shall ensure that:

- personnel responding are fit for duty
- relevant qualifications or equivalent of personnel are documented
- all equipment is either properly calibrated or noted that the equipment is for qualitative use only
- laboratory analysis is properly certified or the limitations of the analysis is noted

APPENDIX A
EMERGENCY CONTACT LISTING

CONNECTICUT

Compact Administrator	Katherine S. Dykes Commissioner Department of Energy and Environmental Protection 79 Elm Street Hartford, CT 06106 Business Tel: (860) 827-2805 katie.dykes@ct.gov
Person to Whom Authority Delegated and Primary Contact Individual (Compact Secretary)	Jeffrey Semancik Director, Division of Radiation Department of Energy and Environmental Protection Business Tel: (860) 424-4190 Home Tel: (860) 912-0351 Cell: (860) 597-3628 jeffrey.semancik@ct.gov
Other Emergency Contacts (in order of Priority)	Denny Galloway Supervising Radiation Control Physicist Department of Energy and Environmental Protection Business Tel: (860) 424-3029 Home Tel: (860) 464-1627 Pager: (860) 842-8234 Cell: (860) 490-4051 denny.galloway@ct.gov
	Michael Firsick Supervising Radiation Control Physicist Department of Energy and Environmental Protection Business Tel: (860) 424-3029 Home Tel: (860) 528-2375 Pager: (860) 939-4123 Cell: (860) 916-1638 michael.firsick@ct.gov
24 Hour Emergency Primary Contact Point	Department of Environmental Protection Emergency Dispatch Center (860) 424-3333 (request contact Radiation Duty Officer)

MAINE

Compact Administrator

Jeanne M. Lambrew
Commissioner
Department of Health and Human Services
11 State House Station
Augusta, ME 04333
Business Tel: (207) 287-3707
jeanne.lambrew@maine.gov

Person to Whom Authority
Delegated and Primary Contact
Individual

Jay Hyland PE, Manager
Radiation Control Program
Business Tel: (207) 287-5677
Cell: (207) 592-4170
Jay.hyland@maine.gov

Other Emergency Contacts
(in order of Priority)

Patrick Dostie
State Nuclear Safety Inspector
Business Tel: (207) 287-6721
State Cell: (207) 592-6049
Home: (207)622-9472

Thomas Hillman
Radioactive Materials Inspector
Business Tel: (207)287-8401
State Cell: (207) 215-5302
Private Cell: (207) 242-7593

Robert Stilwell
Radiation Specialist
Business Tel: (207) 287-5719
State Cell: (207) 592-6057
Private Cell: (207) 458-1687

24 Hour Emergency
Primary Contact Point

Maine State Police (Dispatch)
Augusta Regional Communications Center
Request Radiation/Nuclear Incident contact
(207) 624-7076

MASSACHUSETTS

Compact Administrator	Monica Bharel, MD, MPH Commissioner Department of Public Health 250 Washington Street Boston, MA 02108 Business Tel: (617) 624-5200
Persons to Whom Authority Delegated and Primary Contact Individual	John M. Priest Jr., Director MA Department of Public Health Bureau of Environmental Health Radiation Control Program Business Tel: (617) 242-3035 Ext 2001 Business Cell: (617) 388-9540 Home Cell: (781) 626-0833 Jack.Priest@state.ma.us
Other Emergency Contacts (in order of Priority)	Mario Iannaccone Emergency Plan Supervisor/Radiation Control Officer Business Tel: 617/242-3035 ext. 2043 Business Cell: 857-278-1258 Home Cell: 781-626-0833 mario.iannaccone@state.ma.us
24 Hour Emergency Primary Contact Point	Edward H. Salomon Emergency Planner/Radiation Control Officer Business Tel: (617) 242-3035 ext. 2064 Business Cell: 857-278-1257 Home Cell: (508) 333-4349 edward.salomon@state.ma.us Radiation Control Program During Business Monday-Friday 9:00 am -5:00 pm Main # (617) 242-3035 or Emergency # (617) 242-3453 (Ask for Officer of the Day) During Non-Business hours (617)-242-3453 rings through to MA State Police
	Alternative Emergency Numbers: Dept of Public Health Emergency Response Duty Officer (617) 339-8351 Massachusetts State Police (508) 820-2121 direct line Massachusetts Emergency Management Agency (508) 820-2000

NEW HAMPSHIRE

Compact Administrator
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Commissioner
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Person to Whom Authority
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Cell: (603) 419-0583
augustinus.ong@dhhs.nh.gov

Other Emergency Contacts
(in order of Priority)
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Materials Manager
DPHS/Radiological Health Section
29 Hazen Drive
Concord, NH 03301
(603) 271-5176

24 Hour Emergency
Primary Contact Point
New Hampshire State Police
(603) 271-3636

Alternate 24 Hour Contact
Radiological Emergency
New Hampshire State Police
(800) 852-3411

RHODE ISLAND

Compact Administrator
Nicole Alexander-Scott, MPH, MD
Director, Rhode Island Department of Health
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Providence, Rhode Island 02908
401-222-2232

Person to Whom Authority
Delegated and Primary Contact
Individual
Austin Olson
Supervising Radiological Health Specialist
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Center for Health Facilities Regulation
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Other Emergency Contacts
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Center for Health Facilities Regulation
Radiation Control Program
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Maria.barnes@health.ri.gov

24 Hour Emergency
Primary Contact Point

Rhode Island Department of Health
(401) 272-5952

Rhode Island Emergency Management Agency
(401) 946-9996

VERMONT

Compact Administrator

Mark Levine, MD
Commissioner
Vermont Department of Health
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Burlington, VT 05401
Business Tel: (802) 863-7280
Mark.Levine@vermont.gov

Person to Whom Authority
Delegated and Primary Contact
Individual

William Irwin, ScD, CHP
Radiological & Toxicological Sciences Program Chief
Vermont Department of Health
108 Cherry Street
Burlington, VT 05401
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Pager: (802) 250-3592
William.Irwin@vermont.gov

Other Emergency Contacts
(in order of Priority)

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Burlington, VT 05401
(802) 865-7737
Littia.Mann@vermont.gov

Francis O'Neill
Senior Radiological Health Specialist
Vermont Department of Health
108 Cherry Street
Burlington, VT 05401
(802) 865-7743
Francis.Oneill@vermont.gov

24 Hour Emergency
Primary Contact Point

Vermont Emergency Management
(802) 244-8727
(800) 347-0488

FEDERAL LIAISON CONTACT LISTING

EPA

Compact Liaison

Anthony Honnellio
Business Tel: (617) 918-1456
Home Tel: (978) 663-4514
Cell Number: (978) 808-8857
Honnellio.Anthony@epa.gov

24 Hour Emergency
Primary Contact Point

Oil & Hazardous Materials Duty Officer
(617) 223-7265

FDA

Compact Liaison

George Allen
Business Tel: (508) 869-6023 x1102
Cell: (781) 572-9630
george.allen@fda.hhs.gov

24 Hour Emergency
Primary Contact Point

After Hrs Answering Service
(718) 340-7000 ask for Duty Officer

DOE RAP

Compact Liaison

Jody Lupo
RAP Regional Operations Manager
Radiological Assistance Program, Region 1
Nonproliferation and National Security Department
Business Tel: (631) 344-7978
Cell: (301) 366-1756
jody.lupo@nnsa.doe.gov

24 Hour Emergency
Primary Contact Point

DOE Watch Officer
(202) 586-8100
For 24-hour drill notifications by email:
Laboratory on-call desk sergeant policedesksgt@bnl.gov

Appendix B
Compact Member Capabilities

NERHC Member Capabilities							
	CT	MA	ME	NH	RI	VT	Comments
Laboratory Services							
Gross alpha, gross beta, tritium and gamma emitters, including I-131	X	X	X	X	X	X	
Milk, soil, sediment, vegetation, water, snow, meat, poultry, other produce and silver zeolite cartridges by gamma spectrometry	X	X	X	X	X	X	
Gross alpha and gross beta analyses on water and air filters	X	X	X	X	X	X	MA – Only for Air Filters
Sr-89/90						X	will be sent to the Winchester Engineering and Analytical Center, Winchester, MA
Biodosimetry	X						
Field Analysis							
Gamma Survey	X	X	X	X	X	X	
Beta Survey	X	X	X	X	X	X	
Alpha Survey	X	X	X	X	X	X	
Neutron Survey	X	X	X		X	X	
Portable NaI Gamma Spectroscopy and Isotopic Identification	X	X	X	X	X	X	
Portable HPGe Gamma Spectroscopy and Isotopic Identification	X				X	X	
Vehicle Based NaI Gamma Spectroscopy	X						
High Range gamma monitor	X	X					
High Throughput Automated Low Background Alpha/Beta Gas Proportional smear counter	X			X	X	X	
Floor Scanner	X						
High Pressure PIC Environmental Monitoring	X						

NERHC Member Capabilities							
	CT	MA	ME	NH	RI	VT	Comments
Gamma – neutron DNDO backpack	X	X			X		
Portable Liquid Scintillation (H-3, C-14)	X			X			
Personnel Capabilities							
HAZWOPER Operations	X			X	X	X	
Dose Assessment – Rascal	X	X	X	X	X	X	
Dose Assessment – MIDAS	X						
Dose Assessment – TurboFRMAC	X		X	X	X	X	
ResRad – RDD						X	
ROSS – Level 1	X					X	
ROSS – Level 2	X	X					
ROSS – Level 3							
OneResponder Credentialing							
FRMAC Liaison	X			X			
Security Clearance – Q							
Security Clearance – L	X		X	X			
RadResponder for field data	X					X	
JACIS Fusion Reachback	X					X	
Decon Capabilities							
Portal Monitors	X	X		X		X	
Dosimetry	X	X	X	X	X	X	
PCs	X	X	X	X	X	X	

Appendix C
NERHC Action Request

NERHC Action Request											
Reference No. <i>(provided by NERHC Secretary)</i>											
Requested by:	Priority: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input type="checkbox"/> Routine <input type="checkbox"/> Drill/Exercise										
Organization:											
Contact Info:	Date/Time:										
Nature of Request:											
Equipment											
Manpower/ROSS											
Support											
Estimated duration of request:											
NERHC Response											
<i>(Completed by NERHC Secretary or member)</i>											
Responding Organizations:	Priority: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input type="checkbox"/> Routine <input type="checkbox"/> Drill/Exercise										
Name/Authorization:											
Date/Time:											
REPLY/RESOLUTION											
Distribution: <table style="width: 100%; border: none;"> <tr> <td><input type="checkbox"/> CT (Secretary)</td> <td><input type="checkbox"/> MA</td> </tr> <tr> <td><input type="checkbox"/> DOE RAP Region 1</td> <td><input type="checkbox"/> ME</td> </tr> <tr> <td><input type="checkbox"/> FDA</td> <td><input type="checkbox"/> NH</td> </tr> <tr> <td><input type="checkbox"/> EPA</td> <td><input type="checkbox"/> RI</td> </tr> <tr> <td><input type="checkbox"/> FEMA Region 1</td> <td><input type="checkbox"/> VT</td> </tr> </table>		<input type="checkbox"/> CT (Secretary)	<input type="checkbox"/> MA	<input type="checkbox"/> DOE RAP Region 1	<input type="checkbox"/> ME	<input type="checkbox"/> FDA	<input type="checkbox"/> NH	<input type="checkbox"/> EPA	<input type="checkbox"/> RI	<input type="checkbox"/> FEMA Region 1	<input type="checkbox"/> VT
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<input type="checkbox"/> FEMA Region 1	<input type="checkbox"/> VT										

Appendix D

NERHC Incident Notifications

NERHC Incident Notification	
Reference No. <i>(provided by NERHC Secretary)</i>	
Reported by:	Priority: <input type="checkbox"/> Emergency <input type="checkbox"/> Urgent <input type="checkbox"/> Info <input type="checkbox"/> Drill/Exercise
Organization:	Date/Time:
NATURE OF INCIDENT	
<input type="checkbox"/> Nuclear Power Plant Event <input type="checkbox"/> General Emergency [GE] <input type="checkbox"/> Site Area Emergency [SAE] <input type="checkbox"/> Alert [ALERT] <input type="checkbox"/> Unusual Event [UE] <input type="checkbox"/> Incident of interest below EALs	<input type="checkbox"/> Other Radiological Event <input type="checkbox"/> IND Emergency [IND1] <input type="checkbox"/> RDD Emergency [RDD1] <input type="checkbox"/> Rad Con Emergency [RC2] <input type="checkbox"/> Rad Con Alert [RC2] <input type="checkbox"/> Rad Con Incident [RC4]
LEAD STATE	<input type="checkbox"/> CT <input type="checkbox"/> ME <input type="checkbox"/> RI <input type="checkbox"/> MA <input type="checkbox"/> NH <input type="checkbox"/> VT
LEAD STATE POC AND CONTACT INFO	
Name:	Email:
Phone #:	Alt Phone #
Location of the incident & nearest city or town	RADRESPONDER Event
EVENT DESCRIPTION	
<input type="checkbox"/> Radiological Release to environment – actual / potential <i>(circle one)</i>	
Distribution:	
<input type="checkbox"/> CT (Secretary) <input type="checkbox"/> DOE RAP Region 1 <input type="checkbox"/> FDA <input type="checkbox"/> EPA <input type="checkbox"/> FEMA Region 1	<input type="checkbox"/> MA <input type="checkbox"/> ME <input type="checkbox"/> NH <input type="checkbox"/> RI <input type="checkbox"/> VT

IND EMERGENCY [IND1]

Events are in progress or have occurred which involve actual or imminent significant release of radioactive material from an Improvised Nuclear Device (IND). Release of radioactive material can be reasonable expected to exceed EPA Protective Action Guideline exposure levels for a large uncontrolled geographic area.

1. Confirmed IND explosion in Compact state
2. Confirmed IND explosion adjacent to New England
3. Credible and specific threat of IND
4. Local Law Enforcement Agency (LLEA) or federal agency identification of a confirmed or suspected IND in Compact state or adjacent to New England

RDD EMERGENCY [RDD1]

Events are in progress or have occurred which involve actual or imminent release of radioactive material from a Radiological Dispersal Device (RDD). Release of radioactive material could possibly exceed EPA Protective Action Guideline exposure levels in a limited uncontrolled geographic area.

1. Confirmed RDD explosion in Compact state
2. Confirmed RDD explosion in region immediately adjacent (<2 miles) to New England
3. Credible and specific threat of RDD in Compact State or in region immediately adjacent (<2 miles) to New England
4. CSP/DNDO identification of a confirmed or suspected RDD in Compact state or in region immediately adjacent (<2 miles) to New England

RAD CON EMERGENCY [RC2]

Events are in progress or have occurred which involve actual or imminent release of or uncontrolled exposure to radioactive material that could possibly exceed EPA Protective Action Guideline exposure levels in a limited uncontrolled geographic area.

Initiating event *not* due to in-state or adjacent IND, RDD or Nuclear Power Plant accident.

1. Dose assessment estimate indicates EPA Protective Action Guidelines (PAGS) could be exceeded in an uncontrolled area.
2. Confirmed Acute Radiation Syndrome of responders or public diagnosed by medical or HP professional.
3. Confirmed RED (Radiation Exposure Device) in uncontrolled area.
4. IND or RDD event in a non-adjacent area with potential impact in New England.
5. Judgment – Any condition for which judgment indicates there is a substantial threat to public health and safety and requires Compact support staffing

RAD CON ALERT [RC3]

Events are in progress or have occurred which involve actual or potential release of or uncontrolled exposure to radioactive material. Any radioactive releases or exposures are expected to be less than the EPA Protective Action Guideline exposure levels beyond the controlled area.

1. Uncontrolled Category I or II source
2. Fire releasing radioactive material
3. Credible but non-specific radiation related threat
4. Public dose detected in an uncontrolled area >500 mrem/yr but < 2,000 mrem/yr
5. Judgment – Any condition for which judgment indicates there is actual or potential for public or environmental exposure from radiological exposure

RAD CON INCIDENT [RC4]

Events are in progress or have occurred which involve potential or actual release of or exposure to radioactive material. Any radioactive releases or exposures are expected to be limited to a small fraction of EPA Protective Action Guideline exposure levels beyond the controlled area.

1. Overseas or non-adjacent area radiological event detectable in New England
2. Uncontrolled radioactive material (Less than Cat II)
3. Contamination discovered in a large uncontrolled area
4. Fire involving radioactive material with no known release of radioactive material
5. Transportation accident involving radioactive material
6. Public dose detected in an uncontrolled area >100 mrem/yr but < 500 mrem/yr
7. Judgment – Any condition for which judgment indicates there is actual or potential for public or environmental concern from low level radiological exposure

Appendix E

NERHC Assistance - Event Briefing Sheet

NERHC Assistance - Event Briefing Sheet

Describe the Event

The type of facility or radiological material involved in the emergency (a power reactor, nuclear material, IND, RDD, etc.)

The location of the emergency and the nearest major city or town.

The nature and condition of the emergency

Radiological Release

Has a release or loss occurred?
 YES NO Unknown

Start	Date Time	Stop	Date Time
		<input type="checkbox"/> <i>Has not stopped</i>	

Multiple Releases
 YES, how many? _____ NO

An estimate of the source term and isotope(s) involved

Isotope	Abundance	Release Rate	Chemical/Physical Form

The extent of knowledge about the release and distribution.

Wind from _____ at _____
(direction) (speed)

Stability Class:

Precip:

Data Products

Models – Have any models been created and, if so, where are they being stored and how can they be accessed?

The meteorological conditions at the time of the emergency. (wind speed direction, precipitation, stability class if know)

Sample Data – Has there been any field sampling/monitoring data collected? How can it be accessed?

RadResponder Event:

Protective Actions

Responder protective actions, dose limits, PPE required.

Public protective actions initiated.

Points of Contact
The name and telephone number of a technical person from the requesting organization who is knowledgeable about the radiological situation.
An identified Public Information Officer (PIO) (name/phone number/e-mail) due to the potential public interest.
Points of contact for requesting organizations (name/phone number/e-mail) for follow-up support
Reporting Information
Response location (location name and address)
Responders should report to (name or title and telephone number):
Expected duration of support
Special access requirements
Road closures
Responder accommodations