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Revision 1

Radiological Assistance Program Plan Region 8

D. E. Webb

Date Published
September 1993

United States
Department of Energy
P.O. Box 550
Richland, Washington 99352

Approved for Public Release

RADIOLOGICAL ASSISTANCE PROGRAM PLAN AND PROCEDURE REGION 8

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
RICHLAND, WASHINGTON

DOE Region 8
ALASKA, OREGON, WASHINGTON

REVISION 0.1

ORIGINAL

Date Received: 10-25-93 cw

INFORMATION RELEASE REQUEST

Reference: WHC-CM-3-4

Complete for all Types of Release

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ID Number (include revision, volume, etc.)
DOE RL-92-49, Rev. 1

List attachments.

Date Release Required
October 29, 1993

Title: Radiological Assistance Program Plan and Procedure Region 8

Unclassified Category: UC-

Impact Level:

New or novel (patentable) subject matter? [X] No [ ] Yes
If "Yes", has disclosure been submitted by WHC or other company?
[ ] No [ ] Yes Disclosure No(s).

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Will proceedings be published? [ ] Yes [ ] No
Will material be handed out? [ ] Yes [ ] No

Title of Journal

CHECKLIST FOR SIGNATORIES

Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval: Name (printed)	Signature	Date
Classification/Unclassified Controlled Nuclear Information	[ ]	[X]			
Patent - General Counsel	[X]	[ ]	S W BERGLIN		10/25/93
Legal - General Counsel	[X]	[ ]			
Applied Technology/Export Controlled Information or International Program	[ ]	[X]			
WHC Program/Project	[ ]	[X]			
Communications	[ ]	[X]			
RL Program/Project	[X]	[ ]	Approval by Transmittal Letter	See attachment	
Publication Services	[X]	[ ]	MARY D. CURRY		10/19/93
Other Program/Project	[ ]	[X]			

Information conforms to all applicable requirements. The above information is certified to be correct.

	Yes	No
References Available to Intended Audience	[X]	[ ]
Transmit to DOE-HQ/Office of Scientific and Technical Information	[X]	[ ]

Author/Requestor (Printed/Signature) Date
Debra E. Webb 10/15/93

Intended Audience
[ ] Internal [ ] Sponsor [X] External

Responsible Manager (Printed/Signature) Date
J. W. Tritz D.A. Marsh for JWTritz 10/18/93

INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP

Stamp is required before release. Release is contingent upon resolution of mandatory comments.

APPROVED FOR RELEASE OFFICIAL DOCUMENT cw 1-19-94

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RADIOLOGICAL ASSISTANCE PROGRAM PLAN AND PROCEDURE REGION 8

The intent of the U.S. Department of Energy-Headquarters (DOE-HQ) and U.S. Department of Energy, Richland Operations Office (RL) is to use the attached Radiological Assistance Program (RAP) Plan to respond to requests for radiological assistance. The DOE Region 8 includes the States of Alaska, Oregon, and Washington.

RL is the Regional Coordinating Office (RCO) for the DOE Region 8 RAP. The RCO is the point of contact for Federal radiological emergency assistance.

RL's role and responsibility as the RCO is at the Federal and regional level. Adherence to this plan will ensure that RL's response to a request for radiological assistance is appropriate. This plan includes chapters entitled Program Philosophy, Responsible Organizations, Resources and Capabilities, other DOE Resources, and Requesting Radiological Assistance. Also, discussed in detail are the RAP team activation, documentation, and operation.

The attached RAP Region 8 Plan was previously approved December 4, 1992; however, updates to the procedures and appendices sections have been supplied to improve the document. In the future, it is understood that minor changes to the RAP Plan, which do not significantly affect its scope, will not require resubmittal for DASMA approval.

In case of termination or transfer, return this manual to the DOE, Richland Operations Office, Public Safety and Medical Program Branch, Quality, Safety and Health Programs Division, P.O. Box 550, MSIN A5-55, Richland, Washington, 99352.

Approved for Use and Application by:

Kathleen A. Beecher
Region 8 Regional Coordinating Office
DOE, Richland Operations Office

Charles J. Beers, Jr.
Rear Admiral, U.S. Navy
Deputy Assistant Secretary for Military Application
Defense Programs

CONTENTS

LIST OF FIGURES

LIST OF TERMS

AL	U.S. Department of Energy, Albuquerque Operations Office
AMS	Aerial Measuring System
ARAC	Atmospheric Release Advisory Capability
DOE	U.S. Department of Energy
EPA	U.S. Environmental Protection Agency
FRERP	Federal Radiological Emergency Response Plan
FRMAC	Federal Radiological Monitoring and Assessment Center
HQ-EOC	U.S. Department of Energy-Headquarters Emergency Operations Center
ONC	Occurrence Notification Center
RAP	Radiological Assistance Program
RL	U.S. Department of Energy, Richland Operations Office

RADIOLOGICAL ASSISTANCE PROGRAM PLAN
REGION 8

1.0 INTRODUCTION AND PROGRAM PHILOSOPHY

The U.S. Department of Energy (DOE) has sponsored a Radiological Assistance Program (RAP) since the late 1950's. When a radiological incident occurs and exceeds the capability of the Federal, tribal, State, or local authorities, DOE resources are made available through the RAP to provide assistance to those authorities. The explicit purpose of the RAP is to assist in monitoring and assessing activities associated with radiological incidents or emergencies. The DOE's philosophy is that assistance will be provided in radiological accidents and will normally end when the need for assistance is over or if there are other sufficient resources available to handle the situation. The design of RAP is so that DOE's response to a small incident can smoothly scale up for a major radiological emergency. In the event of a major radiological emergency, the law requires DOE to provide resources through the Federal Radiological Emergency Response Plan (FRERP) (FEMA 1985). The FRERP is a comprehensive Federal plan that describes the overall coordination of a Federal government response to a major radiological emergency.

Implementation of RAP is done on a regional basis, with regional coordination between States and DOE response elements. This regional coordination is intended to foster a working relationship between DOE radiological response elements and those State, local, or other Federal agencies.

Requests for radiological assistance may come from other DOE facilities, Federal or State agencies, Indian tribal officials, or any private corporation or individual. Many of the requests will be handled by a telephone call, a conference, letter, teletype, or memorandum. Other requests for assistance may involve radioactive material in serious accidents, fire, personal injuries, contamination, or possible hazards to the public. Serious occurrences may require the dispatch of trained personnel equipped with radiation monitoring instruments and related equipment necessary to monitor, assess, and evaluate the radiological hazard. The DOE recognizes that the assistance provided does not in any way preempt or supersede State or local authority and/or responsibility on State or private properties.

For non-DOE incidents, assistance may be technical advice, measurement, and other resources. The local DOE official in charge must make the determination when DOE resources are necessary. This DOE official must determine whether the involved agencies capabilities are sufficient for the event. If so, the DOE official probably would not respond.

Specific to local incidents, the DOE official will consider requests by local authorities when a DOE response is more timely than appropriate State or local authorities because of travel time to the scene. The DOE will coordinate such response with the appropriate agency or authority.

Appendix A lists the cooperating State and Federal agencies' emergency contact telephone numbers.

1.1 PURPOSE

DOE, Richland Operations Office (RL) is the Regional Coordinating Office for the DOE Region 8 RAP. The purpose of the DOE Region 8 RAP is to make DOE resources available to State, local, other government agencies, and other DOE facilities. Upon request, DOE will provide advice and radiological monitoring and assessment assistance during radiological incidents. The purpose of this document is twofold:

1. To provide guidance and information on available DOE response resources to any organization that requests radiological assistance including U.S. Nuclear Regulatory Commission licensee facilities

2. To provide guidance to DOE contractors in DOE Region 8 on RAP participation and response to radiological incidents.

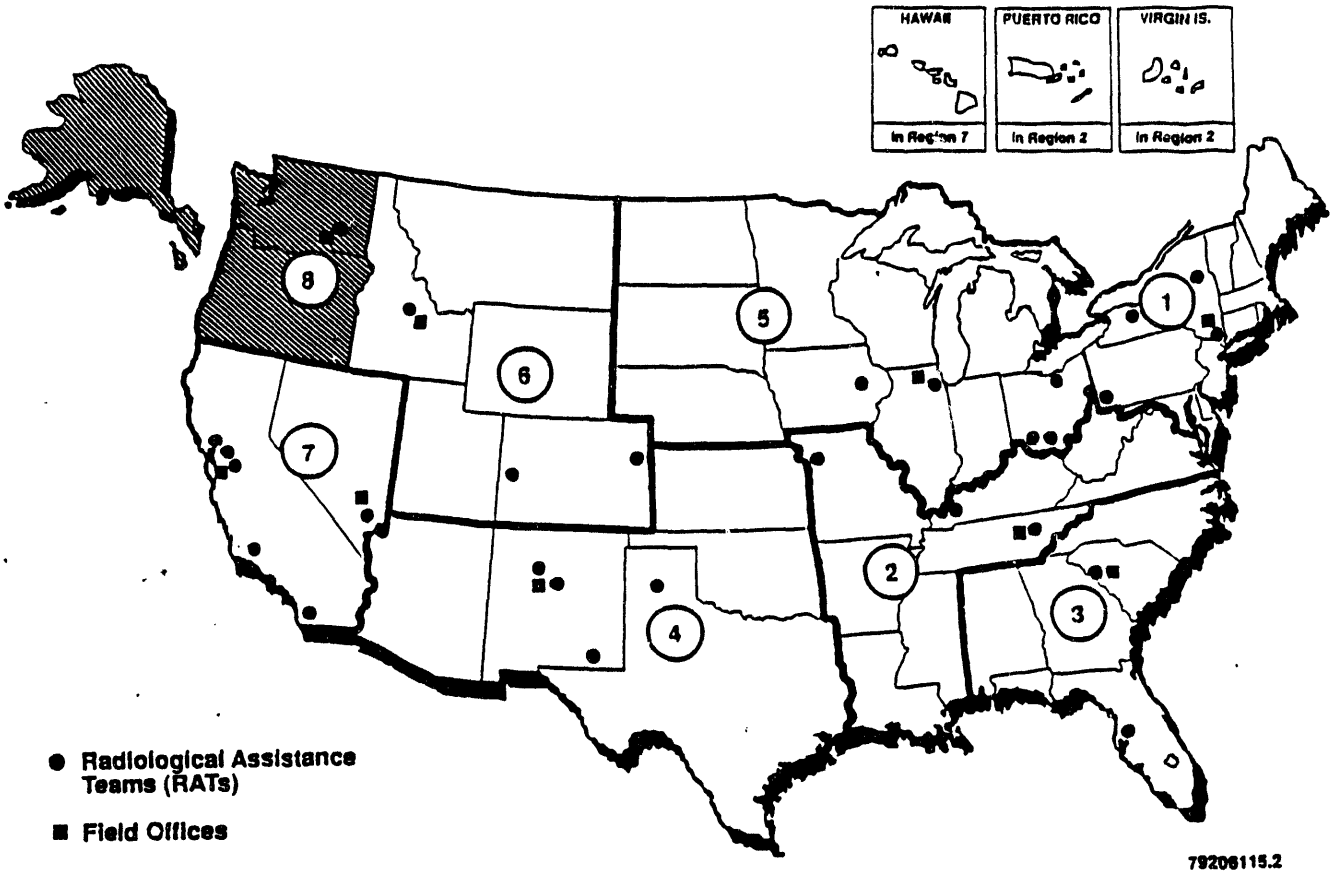
This document does not provide specific guidance on implementing the FRERP or on response to nuclear weapon radiological incidents. In addition, the RAP plan does not relieve the responsible organization of its obligation to plan and implement emergency plans and procedures for onsite radiation incidents. However, the RAP plan can supplement and compliment these plans, especially where DOE facility resources have been exceeded.

1.2 SCOPE

The DOE Region 8 encompasses three States, Alaska, Oregon, and Washington (see Figure 1). This document describes the RAP response to the following types of peacetime radiological emergencies or incidents:

- Fixed nuclear facility incidents--There are two fixed nuclear facilities in DOE Region 8:
  - Washington Public Power Supply System's WNP-2, Hanford Site, Richland, Washington
  - Trojan Nuclear Plant, Rainier, Oregon

Figure 1. U.S. Department of Energy Regional Coordinating Offices.



Regional coordinating office	Mailing address	Telephone
1. Brookhaven Area Office	Upton, Long Island, NY 11973	(516) 282-2200
2. Oak Ridge Ops. Office	P.O. Box 2001, Oak Ridge, TN 37831	(615) 576-1005
3. Savannah River Ops. Office	P.O. Box A, Aiken, SC 29808	(803) 725-3333
4. Albuquerque Operations Office	P.O. Box 5400, Albuquerque, NM 87115	(505) 845-4667
5. Chicago Operations Office	9800 S. Cass Ave., Argonne, IL 60439	(708) 252-4800 (708) 252-5731 Off-Duty Hours
6. Id o Operations Office	785 Doe Place, Idaho Falls, ID 83402	(208) 526-1515
7. San Francisco Ops. Office	1333 Broadway, Oakland, CA 94612	(510) 273-4237
8. Richland Ops. Office	825 Jadwin Ave., Richland, WA 99352	(509) 373-3800

- Transportation incidents involving radioactive materials--This type includes both DOE and non-DOE owned radioactive materials

- Other incidents--Any other incidents involving releases of either DOE or non-DOE owned radioactive materials where radiological assistance is requested.

1.3 OBJECTIVES

The objectives of the Region 8 RAP are as follows.

1. Establish RL as the Regional Coordinating Office.

2. Provide emergency monitoring and assessment response to radiological incidents.

3. Provide guidelines to RAP regional radiological assistance teams to evaluate radiological incidents.

4. Ensure the availability of an effective radiological assistance program.

5. Maintain a liaison with other DOE Regional Coordinating Offices and Regional Response Coordinators to coordinate the planning and response to requests for radiological assistance.

6. Provide a liaison with Federal, State, and local organizations that may become involved in radiological assistance operations.

7. Encourage the development of a local capability to cope with radiological incidents.

1.4 AGENCY INTERFACES

The Region 8 RAP Regional Response Coordinator is a member of the U.S. Environmental Protection Agency's (EPA) Regional Response Team (see Title 40, Code of Federal Regulations, Part 300 "National Oil and Hazardous Substance Pollution Contingency Plan" [EPA 1991]). Within Region 8, there is one EPA region that includes Alaska, Idaho, Oregon, and Washington. Since Alaska is geographically separated from the lower 48 States, our EPA region is divided into two regional response teams: one for Idaho, Oregon, and Washington, and one for Alaska (the Alaska Regional Response Team). Membership on these teams provides opportunities for interaction, shared capabilities, and cross training to ensure a coordinated Federal response. Federal agencies, such as the EPA or the U.S. Coast Guard, lead the regional response team and would request assistance (i.e., radiological monitoring and assessment) from the DOE regional response team member, if needed.

2.0 ORGANIZATIONS AND RESPONSIBILITIES IN THE DOE REGION 8 RADIOLOGICAL ASSISTANCE PROGRAM

The DOE operations office and contractors have expertise in many areas of radiological assistance and response. The expertise is a result of past experiences in defense production programs, research projects, and the Hanford Site's current mission of environmental cleanup.

2.1 U.S. DEPARTMENT OF ENERGY, RICHLAND OPERATIONS OFFICE, RICHLAND, WASHINGTON

In Region 8, there is one DOE operations office, RL. The RL has set a high priority on emergency response capabilities and is responsible for the following aspects of the RAP.

1. Act as the liaison with other DOE Regional Coordinating Offices and other Federal and State radiological emergency response organizations involved in Region 8 planning and assessment activities.

2. Provide members for any regional assistance committees and regional response teams.

3. Communicate with other Federal, State, and local agencies in the region that could participate in the response to radiological incidents.

4. Make available, to the degree practical, radiological advice and assistance during radiological emergencies or incidents where release of radioactive materials is suspected.

5. Support the Federal Radiological Monitoring and Assessment Center (FRMAC) operations.

6. Ensure that designated Hanford Site contractors (Section 2.2) can respond to onsite and offsite radiological emergencies.

7. Dispatch RAP teams to the scene of any incident for which there is a Federal, tribal, State, or local official's request for radiological assistance.

8. Dispatch a RAP team to radiological incidents for which DOE is, or is thought to be, the lead Federal agency.

9. Instruct RAP Team Leaders to acknowledge that there will be a DOE senior official for incidents involving DOE material and that if the RAP Team Leader is the first DOE official on scene, he or she must temporarily assume the role of DOE senior official.

10. Ensure that radiological response personnel are trained, properly equipped, and available, as needed, to support emergency planning commitments and exercises with tribal, State, and local, authorities.

11. Provide information to RL management regarding radiological assistance operations in Region 8.

2.2 DOE HANFORD SITE CONTRACTORS

At the Hanford Site, there are four DOE contractors, Westinghouse Hanford Company, Pacific Northwest Laboratory, Kaiser Engineers Hanford, and Hanford Environmental Health Foundation to assist in the RAP. Each contractor supports the concept of radiological assistance and provides resources for response, including preparedness and planning for all radiological emergencies that may occur within Region 8. Contractor responsibilities are described in the following four sections.

2.2.1 Westinghouse Hanford Company

Westinghouse Hanford Company, as the management and operating contractor, manages the RAP and is responsible for the following actions.

- Prepare and maintain the Radiological Assistance Plan and procedures.
- Acquire and maintain radiological emergency response equipment for an effective capability to respond to offsite radiological emergencies, when requested.
- Implement radiological emergency response notification systems and procedures to effectively support the RAP in Region 8.
- Identify, develop, train, and maintain staff and expertise for resolving radiological emergencies that might arise under the RAP purview.
- Participate, as requested by RL, in State and/or Federal radiological emergency response exercises and training programs.
- Serve on radiological assistance teams.

2.2.2 Pacific Northwest Laboratory

Pacific Northwest Laboratory (operated by Battelle Memorial Institute), as the research and development center for the Site, provides assistance and support, including preparedness and response as requested, and is responsible for the following actions.

- Calibrate and maintain radiological monitoring instruments.
- Maintain and operate the mobile whole body counter.
- Maintain and operate the RAP mobile laboratory.
- Serve on radiological assistance teams.

2.2.3 Kaiser Engineers Hanford

Kaiser Engineers Hanford, as the contractor for the architect-engineer services on the Site, provides assistance and support as requested.

2.2.4 Hanford Environmental Health Foundation

Hanford Environmental Health Foundation, as the contractor for medical services on the Site, provides assistance and support, including preparedness and response as requested, and is responsible for the following actions.

- Provide medical advice on emergency treatment of people exposed to radiation.
- Provide technical advice on nonradiological health hazards.
- Serve on radiological assistance teams.

2.3 OTHER AGENCIES OR ORGANIZATIONS

There are several other Federal agencies and organizations besides the States that can be involved. These agencies and organizations may also be the lead Federal agency requesting radiological assistance. In this case, assistance is provided as described in this section.

These same agencies and organizations can also contribute significantly to radiological emergency response, depending on the nature of the emergency and the scope of incident. For example, if a response under the guidelines in the FRERP was necessary, some of the following agencies may become involved in the emergency response:

⇒ Federal Emergency Management Agency
⇒ U.S. Coast Guard
⇒ U.S. Department of Agriculture
⇒ U.S. Department of Commerce
⇒ U.S. Department of Defense
⇒ U.S. Department of Health and Human Services
⇒ U.S. Department of Interior

⇒ U.S. Department of Transportation
⇒ U.S. Environmental Protection Agency
⇒ U.S. Nuclear Regulatory Commission.

Under the provisions of Title 40, Code of Federal Regulations, Part 300 (EPA 1991), the DOE Region 8 Regional Response Coordinator is also a member of the Regional Response Team and assists the U.S. Coast Guard, the EPA, and/or others as requested.

Each State (e.g., Alaska, Oregon, and Washington) has a radiological and/or public safety department or emergency services department responsible for assessing radiological emergencies and implementing whatever corrective actions are necessary to protect the public. The organizations and assistance described in this document are not intended to supersede or usurp statutory authorities. This document is intended to be an alternate supplemental resource that provides assistance and DOE resources when a combination of State and DOE resources are needed to resolve the crisis.

3.0 DESCRIPTIONS OF REGION 8 RESOURCES

The DOE, through its contractors at the Hanford Site, maintains a cadre of qualified experts for the RAP. The radiological equipment and procedures used by RAP responders are those developed and consistent with existing procedures used in daily operations and onsite radiological emergencies.

The Region 8 RAP maintains additional equipment that enhances regional response capabilities, this includes:

- Response vehicles
- Communications equipment
- A mobile laboratory
- Portable radiation detection instrumentation and associated radiation protection equipment and supplies
- A command van.

The RAP equipment and supplies could be supplemented by existing contractor equipment.

The RAP does not maintain special staff beyond the RAP manager to this program area, but implements a cost-effective program by managing resources through dual assignment of existing staff.

3.1 RESOURCES AND CAPABILITIES

The DOE Region 8 general resources and capabilities are as follows:

Portable Survey/Field Monitoring
- → Alpha, beta, gamma
- → Neutron

Environmental Media Sampling
- → Air--particulate, gas
- → Water
- → Soil
- → Vegetation

Mobile Laboratory
- → Gross alpha/beta
- → Gamma spectroscopy
- → Alpha spectroscopy

Response Equipment
- → Command Van - generator, radios, cellular phone
- → Mobile Laboratory - generator, radios, cellular phone

Radiation Protection Supplies
- → Protective clothing
- → Respirators

Personnel
- → Health physicists
- → Medical
- → Industrial hygienists.

4.0 OTHER DOE RESOURCES AVAILABLE

The RL can request the assistance of the other emergency response assets should the existing capabilities of the RAP team be inadequate to accomplish the task. Requests should be made through DOE-Headquarters Emergency Operations Center (HQ-EOC) through a 24-hour telephone number. Determination to activate or deploy the emergency response assets will be made by the Program Office, Deputy Assistant Secretary for Military Application (DASMA) (DP-20) or his designee in DP-23.

Specialized expertise and equipment capabilities are located throughout the DOE and DOE contractor system. The DOE radiological assistance teams are knowledgeable of the following resources (Sections 4.1 through 4.4) and may request their use.

4.1 FEDERAL RADIOLOGICAL MONITORING AND ASSESSMENT CENTER (FRMAC), DOE, NEVADA Operations office

The FRMAC is an operational center located at or near the scene of a radiological incident and provides a focal point to compile and coordinate all offsite Federal radiological monitoring and assessment activities. The FRMAC is established when a major radiological emergency exists. A major radiological emergency is when a request for assistance requires capabilities exceeding those of the DOE regional RAP team and a request for additional assistance is recommended to the senior official or lead Federal agency official.

The FRMAC is self-supporting including specialized resources in radiation protection, legal and medical support, communications, logistics, videos, and administration. A FRMAC could be deployed as a unit or as conditions dictate. Specific capabilities could be requested, e.g., Aerial Measuring System (AMS) and Atmospheric Release Advisory Capability (ARAC).

4.2 AERIAL MEASURING SYSTEM (AMS), DOE, NEVADA Operations office

The Nevada Operations Office contractor, EG&G, can provide aerial measurements of ground surfaces through gamma spectroscopy. They also have a capability to make in-plume air concentration measurements in the event of a reactor accident release, large area continuous release, or contamination incident. Aerial photography can be performed simultaneously with isodose and isoconcentration curves. The aerial measurement survey is primarily used for making rapid radiological assessment of substantial land areas and the analysis and identification of the radioactive emissions from a source.

4.3 HOTSPOT MOBILE LABORATORY

A DOE resource maintained at Lawrence Livermore National Laboratory is HOTSPOT, a field deployable, air transportable radiochemical laboratory for response to nuclear weapons incidents. The HOTSPOT is used to analyze, identify, and document radioactive contamination at the scene of a nuclear accident.

4.4 ATMOSPHERIC RELEASE ADVISORY CAPABILITY (ARAC)

Another major DOE resource maintained at Lawrence Livermore National Laboratory is the Atmospheric Release Advisory Capability. The Atmospheric Release Advisory Capability is a centralized computer-based system that estimates the transport, diffusion, and deposition of radioactive materials released to the atmosphere and dose projections to people and the environment.

5.0 REQUESTING RADIOLOGICAL ASSISTANCE

Any organization may request radiological assistance through the Hanford Site Patrol Operations Center. The 24-hour emergency number is:

Commercial: (509) 373-3800
FTS: (509) 373-3800

Calls for assistance may come to Region 8 when the incident is in another region. For example, the closest radiological assistance team should be requested to provide assistance until the regional radiological assistance team responds. These requests may come from other regions or from the HQ-EOC. Whatever the case or however the request for radiological assistance comes in, Section 6.0 describes the Region 8 radiological assistance team response procedures are in effect.

6.0 RADIOLOGICAL ASSISTANCE PROGRAM PLAN ACTIVATION

The Region 8 radiological assistance team is composed of qualified RL and RL contractor personnel who are experts in monitoring and radioactive materials involved in the incident. The RAP Team Leader is responsible and has the authority to activate the resources and support necessary to provide assistance when requested. The RAP Team Leader will be an RL official or DOE designate. The radiological assistance teams are deployed in support of the State authorities and/or lead Federal agency and are not intended, except when DOE is the lead Federal agency, to direct actions at the scene or assume command and control.

7.0 CONCEPT OF OPERATIONS

The RL maintains a 24-hour emergency telephone number, (509) 373-3800, that is reserved for incoming emergencies, including radiological incidents, requests for assistance, and other emergency traffic. All calls are automatically recorded.

The request for radiological assistance starts with a call to the Patrol Operations Center 24-hour telephone number: (509) 373-3800.

The Patrol Operations Center makes one call to the Occurrence Notification Center (ONC) on their 24-hour telephone number: (509) 376-2900. The ONC duty officer records pertinent data as received by the Patrol Operations Center and notifies the RAP Team Leader. This officially activates the Region 8 RAP. The ONC duty officer obtains as much information as is available about the incident or request for radiological assistance.

The RAP Team Leader shall, immediately following a request for radiological assistance, contact the requestor to verify and/or confirm the request. The Team Leader will contact the appropriate State or local authority or other lead Federal agency to report the request and establish support needs. The Team Leader also decides if the request for assistance can be handled by providing advice over the telephone or if the radiological assistance team must be deployed. In either case, the request is responded to and documented appropriately.

If the RAP Team Leader determines that a team needs to be deployed, the team is notified and directed to assemble at the Hanford Site ONC. The RAP Team Leader conducts a briefing, preparations are finalized, and, within two hours of being assembled, the team is deployed.

The team will usually be transported in response vehicles; however, the means of transportation may vary depending on the seriousness of the event. Air travel is an option. That decision is based on the urgency of need or geographical location of incident and weather conditions. The DOE RAP does not maintain a dedicated air carrier, and would most likely take existing available commercial flights.

When the team arrives at the incident scene, the RAP Team Leader reports to the senior military or civilian officials and briefs that individual or a designated representative on the responsibilities and capabilities of the Region 8 radiological assistance team. In turn, the incident commander or senior official will brief the RAP Team Leader about the situation.

At the incident scene, the Region 8 radiological assistance team is subject to the control established by the individual in charge and performs its mission under the direction of the RAP Team Leader. If additional support from Hanford Site resources is needed, the RAP Team Leader contacts the Liaison Director in the ONC and requests activation and/or mobilization of additional resources (e.g., personnel, equipment, or activation of Hanford Site emergency centers.)

The RAP Team Leader may also need additional Federal support (e.g., other RAP regions and/or Federal capabilities like AMS.) (See Section 4.0.) The RAP Team Leader is responsible for

evaluating the radiological monitoring and assessment activities and also for notifying HQ-EOC when an incident is expected to exceed the radiological assistance team's response capability. At that time, the RAP Team Leader may recommend to the lead Federal agency to evaluate whether the major emergency should be declared (i.e., the FRMAC). If this occurs, the RAP Team Leader is expected to transition or scale up with the FRMAC.

Locations of the radiological assistance teams are shown in Figure 1.

When all involved parties agree that assistance is no longer needed, the RAP Team Leader will debrief with the incident commander or person in charge, turn over and provide radiological data to the appropriate agency and return to Richland. Within 14 working days, the appropriate Federal, tribal, State, and/or local agency will be provided a copy of the RAP team's final report.

8.0 WASTE ISOLATION PILOT PLANT TRUPACT-II EMERGENCY RESPONSE PROGRAM

The procedures for responding to a TRUPACT-II transportation incident are somewhat different than a "normal" RAP response. The primary difference is that DOE is the waste 'generator', shipper, and receives the waste at the Waste Isolation Pilot Plant site. It is because of this ownership that DOE's responsibility in responding to a TRUPACT-II accident is enhanced. The DOE will not wait to be asked to respond to a TRUPACT-II accident. The DOE will respond initially with the radiological assistance team closest to the accident, the radiological assistance team will establish themselves as the DOE on-scene senior official until the DOE, Albuquerque Operations Office (AL) team gets there. The Region 8 radiological assistance team will respond as described in this plan. The AL response is described and guidelines established in Emergency Response and Recovery Roles and Responsibilities for TRUPACT-II Transportation Incidents, Revision 0, June 6, 1991 (AL 1991a) and Radiological Assistance Team (RAT) Procedures for TRUPACT-II Transportation Incidents, Revision 0, May 31, 1991 (AL 1991b). The Region 8 RAP Team Leader knows the guidelines in this document and will assure transition to the AL team upon their arrival.

9.0 REFERENCES

AL, 1991a, Emergency Response and Recovery Roles and Responsibilities for TRUPACT-II Transportation Incidents, Revision 0, U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico (June 6).

AL, 1991b, Radiological Assistance Team (RAT) Procedures for TRUPACT-II Transportation Incidents, Revision 0, U.S. Department of Energy, Albuquerque Operations Office, Albuquerque, New Mexico (May 31).

EPA, 1991, "National Oil and Hazardous Substance Pollution Contingency Plan," Title 40, Code of Federal Regulations, Part 300, U.S. Environmental Protection Agency, Washington, D.C.

FEMA, 1985, "Federal Radiological Emergency Response Plan (FRERP), Concurrence by All Twelve Federal Agencies and Publication as an Operational Plan," Federal Register, Vol. 50, No. 217, pp. 46542-46570, Federal Emergency Management Agency, Washington, D.C.

RESPONSE PROCEDURE

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CONTENTS

LIST OF FIGURE

1.0 INTRODUCTION

As described in DOE/RL-92-49, Rev. 0, Radiological Assistance Program Plan, Region 8, the U.S. Department of Energy (DOE) makes DOE resources available to other Federal, tribal, State, or local authorities during radiological emergencies. This procedure further describes the Radiological Assistance Program (RAP) Plan and how a request for radiological assistance is received and processed, and how the team responds to the request.

1.1 PURPOSE

This procedure identifies the process to ensure that the DOE RAP Plan and DOE orders are met when responding to a request for offsite radiological assistance.

1.2 SCOPE

The procedure includes the RAP team's safety and health policy, structure, and equipment used during all responses by the DOE Region 8 RAP team. The Region 8 RAP team may be asked to respond to an emergency in another DOE region (i.e., because of geographical proximity to the Hanford Site or in support of another regions RAP team).

1.3 SAFETY AND HEALTH POLICY

The Region 8 RAP team will respond in an operationally safe and environmentally sound manner. The team's safety for response, survey, monitoring, and entry into hazardous environments is considered a first priority. Entry into hazardous environments will first be reviewed and concurred with by the RAP Team Leader. RAP team personnel will follow ALARA principles and safe work practices and shall not enter any unknown or unmonitored situation. The RAP team will use and maintain responsibility for their own dosimetry, protective clothing, or equipment requirements. RAP team members are also responsible for following guidelines for exposure to hazards.

2.0 RESPONSIBILITIES

This section defines the Hanford functional areas responsible for receiving a call from offsite for radiological assistance and ensuring the RAP Team Leader is activated to respond to the request.

2.1 HANFORD PATROL OPERATIONS CENTER

The Hanford Patrol Operations Center (POC) is responsible for receiving offsite requests for radiological assistance, obtaining as much information as possible, and relaying that information to the Hanford Occurrence Notification Center (ONC).

2.2 HANFORD OCCURRENCE NOTIFICATION CENTER

The ONC is responsible for obtaining the requested information from the POC; notifying the RAP Team Leader; and, when directed by the RAP Team Leader, formally notifying DOE-HQ and initiating the RAP team activation.

2.3 RAP TEAM LEADER

The RAP Team Leader is responsible for receiving, confirming, and/or verifying the information with the requestor, determining if a phone or deployment response is required, ensuring that the appropriate notifications are made, activating and deploying the RAP team if required, and issuing the final report. In addition, if the RAP team is deployed when DOE-owned material is involved, the RAP Team Leader must act as the on-scene DOE senior official until the appropriate DOE senior official arrives on scene.

3.0 TEAM ORGANIZATION AND RESPONSIBILITIES

The RAP team is organized to deploy a team of qualified experts, headed by the RAP Team Leader, with its own equipment. All requests, whether from the RAP team or the incident commander, flow through the RAP Team Leader. Figure 1 illustrates the RAP team organization, reporting, and communication flow. All RAP team members deploy to the incident site except the Liaison Director, who remains in the Hanford ONC.

3.1 RAP TEAM LEADER

The Region 8 RAP Team Leader has the following responsibilities.

- ⇒ Act as the lead Federal agency when DOE-owned materials are involved.
- ⇒ Support the cognizant Federal agency and/or DOE officials in radiological incidents.
- ⇒ Act as the on-scene DOE senior official and provide timely reports to the ONC duty officer.

⇒ Evaluate the radiological health hazard and use radiological monitoring to delineate the area of contamination.

⇒ Support the State incident commander or manager in the case of a State RAP request. This support takes the form of responsibility for the following activities.

- Receiving the request
- Confirming and verifying the information of the request with the requestor
- Determining the required response
- Initiating the team assembly
- Conducting a predeployment briefing
- Deploying the team
- Conducting the on-scene team activities
- Communicating with the incident commander and DOE/RL
- Conducting the post-event debriefing
- Issuing the final report.

3.2 RAP TEAM CAPTAIN

The RAP Team Captain assists the Team Leader as requested in determining the required response. The RAP Team Captain also is responsible for the following activities.

⇒ Providing the technical health physics assessment and recommendations to the RAP Team Leader

⇒ Directing and communicating field activities to the RAP Team Leader

⇒ Ensuring the team's status is relayed to the Liaison Director

⇒ Ensuring the team's health and safety

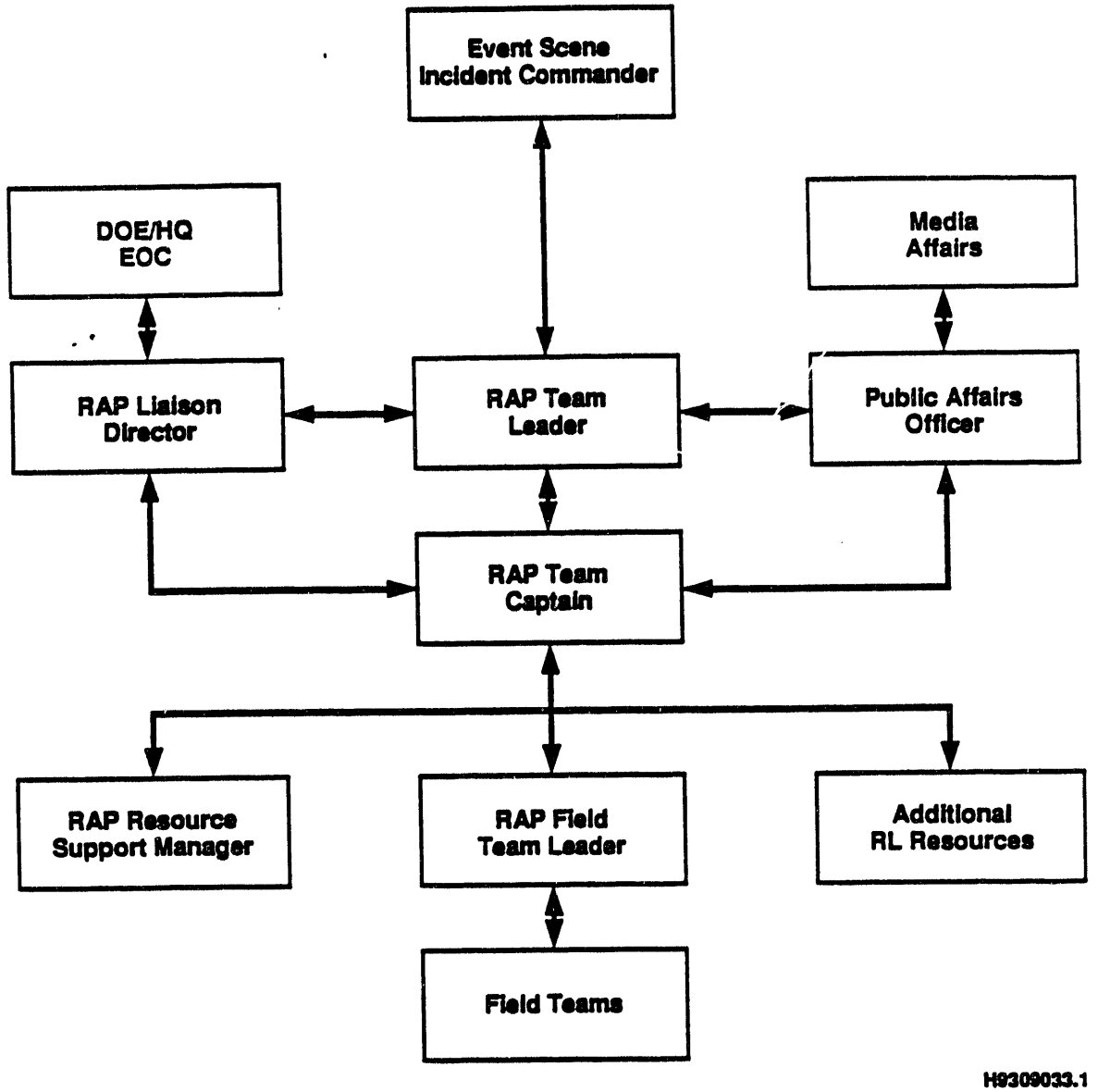
⇒ Preparing and maintaining a status log documenting RAP team activities

⇒ Preparing the final report.

3.3 LIAISON DIRECTOR

The Liaison Director, when notified to activate, reports to the ONC and maintains communication with the RAP team, ensures the RAP team status is communicated to DOE-HQ, and assists in securing additional Hanford Site resources if necessary.

Figure 1. RAP Team Organization.



3.4 FIELD TEAM LEADER

The Field Team Leader, when notified to activate, reports to the ONC and assembles field monitoring team(s), provides on-scene direction to the field monitoring teams, and ensures their health and safety. The Field Team Leader also maintains all radiological survey data and reports.

3.5 RESOURCE SUPPORT MANAGER

The Resource Support Manager, when notified to activate, reports to the ONC and provides and maintains a status log of team activities, sets up equipment, provides logistical support, and establishes and maintains communications with the ONC.

3.6 PUBLIC AFFAIRS OFFICER

The Public Affairs Officer, when notified to activate, reports to the ONC and maintains communication with the news media.

4.0 EQUIPMENT AND SUPPLIES

Equipment available and used by the RAP team consists of response vehicles, an emergency mobile laboratory (EML), communications equipment, portable survey and monitoring equipment, and miscellaneous equipment and supplies.

4.1 RESPONSE VEHICLES

Command Van

The command van is a vehicle used as a command center. It can supplement existing facilities for an onsite event and is used in offsite responses for the RAP team. The van seats five people and has ample room for equipment and supplies. The command van is equipped with office supplies, a white board and work table, a calculator, binoculars, a weather station, extra chairs, and the following communications equipment.

- Cellular phone (544-8070)
  - Oregon emergency frequency (46.580 Mhz)
  - Washington emergency frequency (46.00 Mhz.)
  - Hanford Site frequencies.

Crew Cab

The crew cab is the dual-wheel pick-up truck equipped to pull the EML. It seats five people. The crew cab is equipped with a cellular phone (544-8071) and a base station radio with the five frequencies used on the Hanford Site.

Emergency Mobile Laboratory

The EML is a Conestoga fifth-wheel travel trailer modified for use as a laboratory. It is equipped with instruments and counting equipment to perform qualitative and quantitative analyses of gamma-emitting radionuclides in air, liquid, soil, and vegetation samples; quantitative determination of alpha and beta activity in soil and air samples; and an estimation of the external exposure (excluding neutrons) using environmental thermoluminescent dosimeters. The EML is also equipped with portable radiation monitoring and survey instruments. Communication equipment includes a base station and hand-held radios with the same frequencies as the command van.

The EML also provides comfortable quarters for performing analysis and assessment activities. It is also equipped to sustain comfortable living for short periods of time (e.g., it has heating and air conditioning, a water supply, refrigerator, toilet, shower, beds, and a 6.5-kW 120/240-V generator). A large inventory of hand tools, protective equipment and clothing are maintained for use in the field.

The EML is equipped with counting equipment that includes the following items.

- The Gamma Analysis System, featuring a high-purity intrinsic germanium detector, Canberra Series 35+ multichannel analyzer, and an IBM/PC/AT Computer with a Canberra Spectrum AT software package

- The Alpha/Beta Counter, featuring an NMC open-chamber, gas flow proportional counter, and NMC scaler/counter

- The thermoluminescent (TL) dosimeter system featuring a Harshaw 2000 A and B reader and integrator for LiF and CaSO4 TL chips.

Health Physics Emergency Response Vehicles

The health physics response vehicles are long-wheel-base van-type vehicles fully equipped with radiation protection portable instruments, equipment, and supplies. These vehicles are used daily on the Hanford Site and are maintained in a state of operational readiness.

4.2 DEDICATED ADDITIONAL EQUIPMENT AND SUPPLIES

Communications

- Cellular phones
- Hand-held radios.

Portable Instrumentation

- Alpha and beta-gamma radiation survey instruments
- Micro-R meters
- Bicron count rate meter with FIDLER detector.

Health Physics-Related Equipment

- Dosimeters--self-reading pocket dosimeters, multi-chip TLDs
- Protective clothing kits
- Miscellaneous supplies, e.g., rope, tape, radiological warning signs.

Miscellaneous Equipment

- Portable Generators
- Pocket tape player/recorder
- Cameras
- Office supplies
- Camping gear
- First Aid supplies
- Notebook computers.

5.0 OPERATIONAL PROCEDURE FOR DEPLOYMENT

5.1 NOTIFICATION

The request for radiological assistance is initiated through the Hanford Patrol Operations Center (POC) 24-hour phone number: 373-3800.

The POC obtains as much information as possible, including a call-back number for the requestor, and calls the Hanford Occurrence Notification Center (ONC) on their 24-hour phone number: 376-2900 and relays all pertinent data. The following information is usually obtained.

- Nature of incident
- Name, title, location, and telephone number of the person making the report

- Time of incident
- Location of incident
- Fire or other hazard involvement
- Urgency of response and seriousness of incident
- Weather conditions
- Personnel involved (e.g., injuries, contamination)
- Local, State, or Federal agencies notified and on the scene at the incident
- News reports of the incident and whether false or exaggerated reports have circulated.

The ONC calls the RAP Team Leader, relays all pertinent data, and stands by to assist in any other notifications. If an RL RAP Team Leader cannot be contacted, the ONC calls the WHC RAP Team Captain, who is empowered to act on behalf of RL to respond as the RAP Team Leader. The RAP Team Leader will complete the "Radiological Assistance Program - Incident Report Information Form" to record pertinent data. An example of the form is provided as Appendix B to this procedure.

Using Appendix A, "State and Federal Emergency Numbers," the RAP Team Leader contacts the appropriate Federal, State, and/or local authorities to notify them of the request and verify the need for DOE assistance. This notification and communication ensures that the appropriate agency has the chance to respond first. If requested, the DOE RAP team will assist the responding agency. Additional notifications are made to the HQ-EOC. The RAP Team Leader requests assistance from the ONC in notifying the HQ-EOC and any other Federal or State agencies, as appropriate.

If any of the following occur, the HQ-EOC must be notified as soon as practical.

- A request for emergency assistance is received. (Notify within 15 minutes after the request is received.

- DOE and/or contractor personnel and resources are deployed off site for emergency radiological assistance. (Notify within 15 minutes of deployment.)

- DOE facilities or material are involved or thought to be involved in the incident.

- The responding regional coordinating office requests assistance from other regional coordination offices, DOE operations offices, or regional offices of other Federal agencies.

- The incident may receive significant media attention.

- A radiological assistance response action that was previously reported is terminated or transferred to another agency.

A report or request for assistance that concerns a radiological incident in another radiological region should be immediately reported to the responsible regional coordinating office. The office should be requested to assume responsibility for handling the incident.

5.2 ACTIVATION

The Team Leader is ultimately responsible for team response and deployment and acts for the RL manager with full decision-making authority in the incident. If the RAP Team Leader decides that deployment is required, he requests the assistance of the ONC to activate the RAP team. Activation of the RAP team automatically assembles the following team members at the ONC: RAP Team Leader, RAP Team Captain, Resource Support Manager, Liaison Director, Field Team Leader and field team(s), and Public Affairs Officer.

As a minimum, the RAP Team Captain will be notified to assist in team and equipment assembly, communications, and other logistics requirements. The team is given instructions about where to meet, the expected length of response activities, or other pertinent information. The RAP Team Leader gathers any additional or new information to determine whether additional actions are required (i.e., additional resources). While the RAP Team Leader gathers information, the RAP Team Captain assembles the team, equipment, and logistics needs, and assures the RAP Team Leader that the team is ready.

The Liaison Director does not deploy with the team but remains in the ONC to facilitate communications and notifications, obtain additional resources, provide updates to the Hanford Site senior management, and act as the link between the deployed RAP team and the Hanford Site.

5.3 DEPLOYMENT

The RAP team deploys to the incident scene. On arrival, the RAP Team Leader establishes communications with the incident commander. The RAP Team Leader receives an update from the incident commander, and together with the RAP Team Captain, establishes on-scene radiological monitoring and assessment activities.

5.4 ON-SCENE ACTIVITIES

Many of the on-scene activities are directed and coordinated by the RAP Team Captain who ensures that radiological monitoring and assessment data are communicated and documented accurately.

The RAP team will immediately help determine if a radiological release or loss of radiological control has occurred and assess the extent of the radiological incident. The team can then determine whether to establish a cordon or modify an existing one. The RAP team will further assist in evaluating radiological risks to the public and the environment. After evaluating the data,

they assess the radiological consequences. The RAP team can then advise local officials of the actions needed to protect the public health and safety.

The RAP team will coordinate radiological measurements with the State and local radiation protection teams and record all monitoring and survey data in legible form.

The Team Action Sheet (Appendix C) will be used to document team activities. Each team member will complete the sheet(s) as needed.

5.5 CLOSE-OUT ACTIVITIES

When their assistance is no longer needed, the RAP team will debrief and provide to the incident commander (and/or appropriate Federal, tribal, State, or local agency) information regarding the team's evaluation and assessment. In addition, the team's final report is forwarded to the appropriate agency. The report is also maintained on file at DOE Headquarters and the Richland Operations Office.

APPENDIX A

STATE AND FEDERAL EMERGENCY NUMBERS

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APPENDIX A. STATE AND FEDERAL EMERGENCY NUMBERS.

Code	Cooperating State Agency	Emergency Planner	Emergency Contact
ADES	Alaska Division of Emergency Services Radiation Protection Offices P.O. Box 5750 Fort Richardson, AK 99505-5750	John Hensley (907) 428-7024 (work) (907) 376-3431 (home)	Duty Officer (907) 428-7000 24 hour
ADHSS	Alaska Department of Health & Social Services Division of Public Health Juneau, AK 99811-0613	Charles Tedford (907) 465-3019 (work)	Duty Officer (907) 428-7000 24 hour
ODOE	Oregon Department of Energy Nuclear Safety & Energy Facilities Division 625 Marion St. NE Salem, OR 97310	Rose Bennett (503) 373-7400	Duty Officer *(503) 373-7400 24 hour
WA	State of Washington Dept. of Community Devel. Emergency Management Division 4420 E. Martin Way P.O. Box 48346 Olympia, WA 98504-8346	Stanley K. Jackson (206) 682-5327	Duty Officer 1-800-258-5990 24 hour
BNGR	U.S. Department of the Navy COMSUBGRU NINE Silverdale, WA 98315-5100	Lt. Marc Neuffer (206) 396-6861	(206) 396-6530
DHHS	U.S. Department of Health and Human Services Seattle District Food and Drug Administration Roger Lowell, Director 22201-23rd Drive S. E. Bothell, WA 98041-3012	Wilbur F. Vanpelt (206) 483-4954	Duty Officer (206) 486-8788 24 hour
DOA	U.S. Department of the Army 6th Infantry Div. (light) Fort Richardson, AK Attn: AFVR-CR Division Chemical Officer	LtC Samuel W. Ross (907) 862-0185/9214 (commercial) (317) 863-0185/9214 (autovon)	LtC S. W. Ross (907) 862-0185 ext 9214 (317) 863-0185 ext 9214
DOC	U.S. Department of Commerce NOAA, Nat'l Weather Service Chris Hill, Manager 7600 Sand Point Way NE Seattle, WA 98115	Rob Doherty/Tom Swift (206) 526-6095 88-392-6083	Lead Forecaster (duty) (206) 526-6083 FTS-392-6083

*Enter DOE, Richland Operations Office call-back number. If Oregon Duty Officer does not call back, call Oregon Emergency Response Services at 1-800-452-0311.

Code	Cooperating State Agency	Emergency Planner	Emergency Contact
DOC	U.S. Department of Commerce Meteorological Services Div. National Weather Service, Western Region P.O. Box 11188, Fed. Bldg. Salt Lake City, UT 84147	R. C. Richey, Chief (801) 524-4000 FTS-588-4000	
RL	U.S. Department of Energy Quality Safety and Health Programs Division/ Regional Coordinating Office Richland, WA 99352	Kathy Beecher (509) 376-8519	(509) 373-3800
DOI	U.S. Department of Interior Office of Environmental Project Review Anchorage, AK 99501-5126	Paul Gates (907) 271-5011 (work) (907) 337-2438 (home)	Pamela A. Bergman (907) 271-5011 (907) 333-0489
DOI	U.S. Department of Interior Office of Environmental Review 1002 NE Holloday St. Portland, OR 97232-4181	Charles Polityka (503) 231-6157 (work) (503) 621-3682 (home)	Preston Sleeger (503) 231-6157 (work) (503) 684-4082 (home)
DOT	U.S. Department of Transportation U.S. Coast Guard 17th Coast Guard District Juneau, AK 99802-1217	Cdr E. E. Page (907) 586-7197	Captain D. E. Bodron (907) 586-7197
DOT	U.S. Department of Transportation Regional Emergency Transportation Rep. Region 10 915 2nd Ave. Rm. 3590 Seattle, WA 98174-1067	RAdm J. E. Vorbach (206) 553-5078 Cdr, 13th Coast Guard RETCO, Region 10	Bennie Walthall (206) 553-0949
EPA	U.S. Environmental Protection Agency, Region X Seattle, WA 98101	Jerrold Leitch (206) 553-7660	(206) 553-1196 (206) 553-1263
FAFB	Fairchild Air Force Base Disaster Preparedness Div. FAFB, WA 99011-5000	Howard Alexander (509) 247-5530 (command post 24-hour)	(509) 247-5530 (509) 247-2855 (509) 247-2856 (509) 247-2151
FEMA	Federal Emergency Management Agency, Region X 130 228th St. SW Bothell, WA 98021-9796	Richard W. Donovan (206) 487-4693 FTS-390-4693	(206) 487-4600 FTS-390-4600
NRC	U.S. Nuclear Regulatory Commission Region 5 1450 Maria Lane, Suite 210 Walnut Creek, CA 94596	Emilio Garcia (510) 975-0239 88-448-0239	(510) 975-0200 (301) 951-0550 (301) 427-4056 (301) 427-4259 (301) 492-8893

APPENDIX B

RADIOLOGICAL ASSISTANCE PROGRAM INCIDENT REPORT FORM

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RADIOLOGICAL ASSISTANCE PROGRAM
INCIDENT REPORT INFORMATION FORM

This form will be filled out by the receiver to the call.

TIME OF CALL: _____* DATE: _____
RECEIVER OF CALL: _____
TITLE: _____
ORGANIZATION: _____
CALLER: _____
TITLE: _____
LOCATION OF CALLER: _____
CONTACT PHONE NUMBER: _____

INFORMATION RECEIVED

1. TYPE OF INCIDENT REPORTED: (select one)
   ( ) A. RADIOACTIVE MATERIALS TRANSPORT
   ( ) B. NUCLEAR WEAPON ACCIDENT
   ( ) C. DOE FACILITY
   ( ) D. NUCLEAR REACTOR
   ( ) E. OTHER
   _____
   _____

2. INCIDENT DATE: _____* INCIDENT TIME: _____*

3. LOCATION OF INCIDENT: _____
   _____

4. BRIEF DETAILS OF INCIDENT (radiation levels, contamination level, etc):
   _____
   _____
   _____
   _____
   _____
   _____

5. IS FIRE INVOLVED: _____

6. OTHER HAZARDOUS MATERIALS: _____
   _____

*USE 24 HOUR MILITARY TIME

7. HAS A CORDON BEEN ESTABLISHED AT SCENE: ( ) YES
( ) NO

8. KNOWN RADIONUCLIDES: _____
Activity (ci)

9. WEATHER CONDITIONS: _____

10. CASUALTIES INVOLVED: (include number in brackets)
( ) A. INJURED ( ) D. MISSING
( ) B. DEATHS ( ) E. NONE
( ) C. CONTAMINATED

11. RESPONSES CURRENTLY AT THE SCENE: (check appropriate)
( ) A. STATE PATROL
( ) B. EMERGENCY RESCUE SQUAD
( ) C. FIRE DEPARTMENT
( ) D. STATE RADIOLOGICAL FIELD TEAMS
( ) E. LOCAL/CITY POLICE
( ) F. AMBULANCE TEAM
( ) G. OTHER

12. TRIBAL, STATE, LOCAL, OR OTHER FEDERAL AGENCIES NOTIFIED: _____

13. NEWS MEDIA REPORTS OF THE INCIDENT: _____

ACTIONS TAKEN BY RECEIVER OF CALL

TRIBAL, STATE, LOCAL, AND OTHER FEDERAL AGENCIES NOTIFIED AFTER CALL: _____

RADIOLOGICAL ASSISTANCE PROGRAM (RAP) TEAM RESPONSE: _____

APPENDIX C

RADIOLOGICAL ASSISTANCE PROGRAM
TEAM ACTION SHEET

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RADIOLOGICAL ASSISTANCE PROGRAM
TEAM ACTION SHEET

RAP Team Member: Print Name: _____

Signature: _____

Incident Date: _____ Incident Location: _____

TIME	ACTION TAKEN	RESULT/FOLLOW-UP

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