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Revision 1

**U.S. Department of Energy
Region 6
Radiological Assistance Program
Plan**

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**U.S. Department of Energy
Idaho Operations Office
Idaho Falls, Idaho**

**For Radiological Assistance Call the
Warning Communications Center
(208)526-1515**

MASTER

-----DOE Region 6-----
-Colorado - Idaho - Montana-
-Utah - Wyoming-

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DOE REGION 6 RADIOLOGICAL ASSISTANCE PROGRAM PLAN

Frank M. Jakubowski

November 1995

**Idaho National Engineering Laboratory
Idaho Falls, Idaho 83415**

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U.S. DEPARTMENT OF ENERGY
REGION 6
RADIOLOGICAL ASSISTANCE PROGRAM PLAN

APPROVAL PAGE

Prepared by: F. M. Jakubowski
Contractor Radiological Assistance Program Coordinator

Date: 11/27/95

Approved: Vice President/General Manager, Environment, Safety and Health Branch

W. A. Haller

Date: 4/5/95

Concurrence: U.S. Department of Energy, Idaho Operations Office

Radiological Assistance Program Manager

Sh. L. Munnell

Date: 4/6/96

Manager, Idaho Operations Office

James D. ...

Date: 4/10/96

U.S. Department of Energy, Grand Junction Projects Office

Manager, Grand Junction Projects Office

James D. ...

Date: 4/16/96

U.S. Department of Energy, Rocky Flats Field Office

Manager, Rocky Flats Field Office

[Signature]

Date: 5/9/96

TABLE OF CONTENTS

1.0	<u>INTRODUCTION AND PROGRAM PHILOSOPHY</u>	1
1.1	Purpose	1
1.2	Scope	2
1.3	Objectives	3
1.4	Limitations on Assistance	3
2.0	<u>ORGANIZATIONS, ROLES AND RESPONSIBILITIES WITHIN DOE</u>	
	<u>REGION 6 RAP</u>	5
2.1	Regional Coordinating Office (RCO)	5
2.2	Local Response Coordinator (LRC) Responsibilities	8
2.3	Region 6 RAP Contractor Support	9
	2.3.1 Contractor Radiological Assistance Program Coordinator Responsibilities	9
	2.3.2 Other Roles and Responsibilities	11
2.4	Joint Nuclear Accident Coordinating Center (JNACC)	11
2.5	State Agencies	12
2.6	Other Organizations	12
3.0	<u>DESCRIPTION OF DOE REGION 6 RESOURCES</u>	13
4.0	<u>RAP SCALED RESPONSE</u>	15
4.1	Other DOE Emergency Response Assets Available for the RAP	17
	4.1.1 Aerial Measuring System (AMS) - DOE-NV	18
	4.1.2 Atmospheric Release Advisory Capability (ARAC) - LLNL	18
	4.1.3 Federal Radiological Monitoring and Assessment Center (FRMAC)	18
	4.1.4 Radiation Emergency Assistance Center and Training Site (REAC/TS)	19
	4.1.5 Nuclear Emergency Search Team (NEST)	19
	4.1.6 Accident Response Group (ARG)	19
4.2	Other DOE Equipment Available to RAP	20
	4.2.1 HOTSPOT Mobile Laboratory - LLNL	20
	4.2.2 RANGER - LANL	20

TABLE OF CONTENTS

5.0	<u>RAP ACTIVATION</u>	21
5.1	Communications	21
5.2	Notifications within Region 6	21
5.3	Notification of DOE Headquarters	22
5.4	Activation of a DOE Region 6 RAP Response	22
5.4.1	RAP Team Deployment Criteria	23
5.5	DOE-ID Emergency Operations Center (EOC)	23
5.5.1	Rocky Flats Emergency Operations Center (EOC)	24
5.5.2	Grand Junction Emergency Operations Center (EOC)	24
5.6	Mode of Travel	24
6.0	<u>TRAINING/DRILLS AND EXERCISES</u>	26
7.0	<u>ADMINISTRATION</u>	27
7.1	Introduction	27
7.2	Audits and Appraisals	28

LIST OF APPENDICES

APPENDIX 1	DOE Region 6 Emergency Numbers
APPENDIX 2	State Contacts and Emergency Numbers
APPENDIX 3	DOE Region 6 RAP Report Forms
APPENDIX 4	Applicable Region Maps

REFERENCES

1. DOE 5000.3B, *Occurrence Reporting and Processing of Operations Information*
2. DOE 5500.2B, *Emergency Categories, Classes, and Notification, and Reporting Requirements*
3. DOE 5500.10, *Emergency Readiness Assurance Program*
4. DOE 5530.1, *Response to Accidents and Significant Incidents Involving Nuclear Weapons*
5. DOE 5530.1A, *Accident Response Group*
6. DOE 5530.2, *Nuclear Emergency Search Team*
7. DOE 5530.3, *Radiological Assistance Program*
8. DOE 5530.4, *Aerial Measuring System*
9. DOE 5530.5, *Federal Radiological Monitoring and Assessment Center*
10. DOE 5635.4, *Protection of Unclassified Controlled Nuclear Information*
11. DOE 5650.2B, *Identification of Classified Information*
12. 50 FR 46542, *Federal Radiological Emergency Response Plan (FRERP)*, November 8, 1985

1.0 INTRODUCTION AND PROGRAM PHILOSOPHY

This program plan meets all the requirements identified in DOE Order 5530.3, *Radiological Assistance Program* and supports the RAP Scaled Response (RSR) concept of operations up to and including the establishment of a Federal Radiological Monitoring and Assessment Center (FRMAC).

The U.S. Department of Energy (DOE) has sponsored a Radiological Assistance Program (RAP) since the 1950's. The RAP is designed to make DOE resources available to other DOE facilities, state, tribal, local, private businesses, and individuals for the explicit purpose of assisting during radiological incidents. The DOE has an obligation, through the Atomic Energy Act of 1954, as amended, to provide resources through the Federal Radiological Emergency Response Plan (FRERP, Nov. 1985) in the event of a radiological incident. Toward this end, the RAP program is implemented on a regional basis, and has planned for an incremental response capability with regional coordination between states and DOE response elements. This regional coordination is intended to foster a working relationship between DOE radiological assistance elements and those state, tribal, and local agencies responsible for first response to protect public health and safety.

Requests for radiological assistance may come from other DOE facilities, federal or state agencies, tribal officials, or from any private entity. Requests may be handled by a telephone call, a conference, or correspondence. Some occurrences may require the dispatch of RAP personnel equipped with radiation monitoring instruments and related equipment necessary to assist in evaluating, containing and controlling the hazard. The primary responsibility for incidents involving radioactive materials always remains with the party having custody of the radioactive materials. However, for transportation-related incidents involving DOE-owned radioactive materials DOE assumes all responsibilities as a shipper. In addition, the DOE recognizes that the assistance provided will not in any way preempt state, tribal, or local authority and/or responsibility on state or tribal properties. DOE assistance for non-DOE owned radioactive materials, is limited to technical assistance to include advice and site monitoring and assessment.

1.1 Purpose

Upon request, the DOE, through the Radiological Assistance Program (RAP), makes available and will provide radiological advice, monitoring, and assessment activities during radiological incidents where the release of radioactive materials is suspected or has occurred. Assistance will terminate when the need for such assistance is over, or if there are other resources available to adequately address the incident.

The implementation of the RAP is usually accomplished through the recommendation of the DOE Regional Coordinating Office's (RCO) Regional Response Coordinators (RRCs). The DOE Idaho Operations Office (DOE-ID) is the designated RCO for DOE Region 6 RAP. The purpose of this document is:

- To describe the mechanism for responding to any organization or private citizen requesting assistance to radiological incidents.
- To coordinate radiological assistance among participating federal agencies, states, and tribes in DOE Region 6.
- To describe the RAP Scaled Response concept of operations.

This plan does not provide specific guidance on implementation of the Federal Radiological Emergency Response Plan (FRERP), nor response to nuclear weapon radiological incidents.

After consultation with contractor and DOE Radiological Program Managers and legal counsel the determination was made that a RAP response does not come under the auspices of Chapter 10 Code of Federal Regulations Part 835, Occupational Radiation Protection. This determination also precludes the requirement that RAP develop a Radiation Protection Program. However, this does not alleviate the requirement that RAP personnel practice the ALARA (as low as reasonably achievable) principle and perform their duties in a safe manner.

This determination was based on the facts that RAP only provided radiological assistance to a requestor, had no command and control at the scene, had no radiation area posting responsibility or primary responsibility for establishing a controlled area.

1.2 Scope

DOE Region 6 consists of the states of Colorado, Idaho, Montana, Utah, and Wyoming. Tribal lands falling within this land area are also covered by this plan. The guidance set forth in this plan describes the RAP response to the following types of peacetime radiological incidents:

- All incidents involving radioactive materials including transportation incidents.
- Radiological incidents at the three DOE facilities in DOE Region 6, Idaho National Engineering Laboratory, ID, Grand Junction Projects Office, CO, and Rocky Flats Environmental Technology Site, CO, that exceed the affected facility's response capabilities.
- Assistance to other DOE regions in the event of a major radiological emergency.

Requests for radiological assistance may be received by the INEL Warning Communications Center (WCC) from any DOE office, DOE contractor, the Nuclear Regulatory Commission (NRC) or one of its licensees; federal, state, and local authorities; law enforcement; civil defense or other agencies; industrial and/or institutional users of radioactive materials; common carriers; or members of the general public. Each request for radiological assistance will receive immediate consideration and an appropriate response by a DOE Region 6 RAP Team.

In the cases of radiological incidents involving DOE material, a DOE Region 6 RAP Team will be dispatched to independently evaluate the hazard potential to public health and safety in support of the Incident Commander.

1.3 Objectives

The objectives of DOE Region 6 RAP are to:

- a. Provide the quickest and most effective radiological assistance under all conditions;
- b. Augment state and local resources to the maximum extent feasible to provide an early response capability;
- c. Provide liaison with other DOE facilities and federal, state, tribal, and local agencies in DOE Region 6;
- d. Provide information to the RCO and DOE-HQ relative to radiological assistance operations in DOE Region 6 and the potential need for additional DOE assets.

1.4 Limitations on Assistance

Unless there is a statutory requirement or existing agreement for DOE to respond, or DOE-owned radioactive materials are involved, RAP assistance may or may not be provided as described in Table 1.

TABLE 1

LIMITATIONS ON ASSISTANCE	
<u>"Not Normally Provided"</u> (5530.3)	<u>"Normally Provided When"</u>
"When it is more appropriate for the organization or individual requesting assistance to obtain state, local, tribal, or commercial services."	The appropriate agency has the capability to respond, but is not able due to other responses currently in progress or necessary resources are unavailable.
"When the state, tribal, or local resources are adequate for the situation."	Response capabilities are adequate to answer the request for assistance and mitigate the problem, but DOE is requested by state, local, or tribal authorities because of broader technical expertise. The potential exists for the escalation of the incident beyond the capabilities of the responding agency and warrants increased support as a precautionary measure.
"When the requested DOE resources are being used in responses to existing emergencies involving other DOE facilities or activities."	Response resources are being used to respond to an on-site incident at a DOE facility, but response elements can be restructured to provide an off-site response without lessening the on-site response capability. Should restructure be impossible, support from other RAP elements within DOE Region 6 will be deployed.
"In an off-site response (except in cases of an immediate threat to life and health) without a state, tribal, local government, or private entity request for assistance."	When it is known or suspected that DOE materials are involved thereby warranting an automatic RAP response.
"For nonradiological incidents."	RAP will respond where other existing agreements have been negotiated and proper personnel training has been completed, documented, and accepted. Such responses will be made by a special team made up of Radiological Assistance Program personnel with expertise in hazardous materials. Response team personnel will be trained to the appropriate level defined in 29 CFR 1910.120, "Hazardous Waste Operations and Emergency Response." The response team will only provide assistance in assessing the radiation hazard, survey for radioactive materials, and will not be a part of any recovery operation. In a mixed waste incident no radiation assessment will be performed until the chemical or physical hazard is rendered safe.

2.0 ORGANIZATIONS, ROLES AND RESPONSIBILITIES WITHIN DOE REGION 6 RAP

DOE Region 6 contains three DOE facilities that are capable of providing radiological assistance: the Idaho National Engineering Laboratory (INEL), Rocky Flats Environmental Technology Site, and the Grand Junction Projects Office. Rocky Flats and Grand Junction staff an emergency response organization (ERO) which includes Radiological Assistance Program Teams. Each RAP Team becomes a DOE Region 6 RAP resource under the direction of the RCO when deployed.

Each DOE Region 6 RAP Team member will be issued a Radiological Assistance Team identification card, DOE F 5500.1, with an attached photograph. The issuance and control of these identification cards will be the responsibility of the issuing DOE facility.

Each DOE Region 6 RAP Team will consist of the positions and hierarchy shown in Figure 2.

2.1 Regional Coordinating Office (RCO)

DOE Idaho Operations Office (DOE-ID) is the Regional Coordinating Office for the Radiological Assistance Program (RAP) within DOE Region 6. The DOE-ID Management Duty Officer will function as the Regional Coordinating Office Director (RCOD) during a Region 6 RAP response. DOE-ID will assign an individual as the Region 6 RAP Program Manager. The Region 6 RAP Program Manager also functions as the primary Regional Response Coordinator (RRC). There are six RRC's trained and located within the RCO.

The Program Manager's responsibilities within DOE Region 6 are to:

- a. Participate as a member on the Regional Response Teams (RRT) within the region and in any regional radiological planning required by 40 CFR 300, *National Oil and Hazardous Substance Pollution Contingency Plan*.
- b. Require covered contractors to comply with the applicable provisions of DOE Order 5530.3, *Radiological Assistance Program*.
- c. Ensure that classification and Unclassified Controlled Nuclear Information (UCNI) guidance is prepared in accordance with DOE Order 5635.4, *Protection of Unclassified Controlled Nuclear Information* and DOE Order 5650.2B, *Identification of Classified Information*.
- d. Review and approve all regional RAP procedures.

- e. Prepare a separate report, with supporting documentation for each response which involves dispatching a RAP Team. One copy of this report will be maintained on file and one copy will be provided to DOE-HQ within 5 workdays after the response. Copies of the report will also be sent to the other RAP elements (ID, RFFO, and GJPO) within the region for informational purposes.
- f. Receive and review quarterly status, annual summary, and response reports from each RAP element.

The RRC responsibilities within DOE Region 6 are to:

- a. Expedite dispatch of Region 6 RAP Teams upon approval of the RCOD to the scene of any incident for which there is a federal, state, local, tribal, institutional, or private sector request for radiological assistance. Concurrence and coordination of the response will be with the respective state, tribal, and/or local agencies.
- b. Dispatch a RAP Team upon approval of the RCOD for radiological incidents for which DOE is, or thought to be, the Lead Federal Agency (LFA).
- c. Provide assistance and make recommendations to the RCOD.
- d. Establish communications with other federal, state, local, and tribal agencies in the region that could participate in the response to radiological incidents.
- e. Request the establishment of a Federal Radiological Monitoring and Assessment Center (FRMAC), if incident conditions warrant.

**U.S. Department of Energy
Radiological Assistance Program
Region 6 -- Organization Chart**

2.2 Local Response Coordinator (LRC) Responsibilities

- a. The Rocky Flats Field Office and the Grand Junction Projects Office in DOE Region 6 will assign a Local Response Coordinator (LRC)/Program Manager to direct and coordinate local RAP assets and response efforts as directed by the Regional Response Coordinator. For an INEL RAP Team response, the RRC will also serve as the LRC.
- b. Expedite dispatch of their respective RAP Teams, upon approval of the senior DOE Manager or his designee and notification by the RCO/RRC, to the scene of any incident for which there is a request for radiological assistance or for radiological incidents for which DOE is, or thought to be, the Lead Federal Agency (LFA).
- c. Establish communications with other federal, state, local, and tribal agencies in their respective areas, with the concurrence of the RCO/RRC, that could participate in the response to radiological incidents.
- d. Develop, review, and approve local RAP Team procedures.
- e. Prepare local quarterly reports using the standardized report form with the format shown below and detailed in Appendix 3. Response reports will include a time line, team composition, incident location, and detailed survey and analytical results. The response report will also include a copy of the Incident Report Information Form. Transmit the reports to the Region 6 Contractor RAP Coordinator (CRC) so they may be incorporated into a regional summary report.

**DOE REGION 6 RAP *QUARTERLY/ANNUAL* REPORT
FOR *Operations/Field/Project Office-QUARTER/YEAR***

ADMINISTRATIVE/GENERAL INFORMATION

TRAINING/DRILL AND EXERCISES

PROBLEMS/ISSUES

RESPONSES

Approved _____
LRC/Program Manager or
Region 6 Contractor RAP Coordinator

2.3 Region 6 RAP Contractor Support

The INEL will provide a Regional Radiological Assistance Program Coordinator and sufficient staff to coordinate Region 6 RAP functions.

The Radiological Assistance Program at the INEL is separated from the INEL on-site ERO programmatically, however, the INEL ERO does provide necessary logistical support when the Radiological Assistance Program is activated.

2.3.1 Contractor Radiological Assistance Program Coordinator Responsibilities

The Contractor RAP Coordinator (CRC) will:

- a. Provide program management and coordination to assure proper program direction, compliance to requirements, and adherence to commitments.
- b. Ensure that radiological response personnel are trained, properly equipped, and available as needed to support emergency planning commitments and exercises with federal, state, local, and tribal authorities.
- c. Prepare and maintain the budget for DOE Region 6 RAP.
- d. Review and approve INEL RAP Team procedures.

- e. Prepare and maintain regional radiological assistance plans.
- f. Prepare and maintain all regional procedures relating to the DOE Region 6 RAP.
- g. Assemble and deploy a RAP Team to radiological incidents as directed by the Regional Response Coordinator.
- h. Prepare and submit to the Region 6 RAP Program Manager, quarterly and annual reports on regional RAP activities. Prepare and submit summaries as applicable for INEL RAP Team response(s) or deployment(s). Each quarterly report will be submitted on the standardized report form shown in Appendix 3 and the annual report will be presented in the following format:

Region 6 RAP Program Manager
U.S. Department of Energy, Idaho Operations Office
Address As Applicable

DOE REGION 6 RAP ANNUAL REPORT - *FISCAL YEAR*

ADMINISTRATIVE

TRAINING/DRILL AND EXERCISES

RESPONSES

BUDGET STATUS

- i. Provide with the concurrence of the Region 6 RAP Program Manager, to the degree practical, staff, equipment, advice, and facilities to assist other organizations in the development of radiological assistance response plans and capabilities.
- j. Maintain current rosters of trained DOE Region 6 RAP members, RAP Coordinators, and state and local emergency services personnel within the region.

2.3.2 Other Roles and Responsibilities

Specific roles of the RAP Team members are discussed in Region 6 RAP Procedure 006, Roles and Responsibilities.

2.4 Joint Nuclear Accident Coordinating Center (JNACC)

The Department of Energy (DOE) and the Department of Defense (DOD) established the Joint Nuclear Accident Coordinating Center (JNACC) at the Defense Nuclear Agency located in Alexandria, Virginia, to handle all accidents involving nuclear weapons and components or radioactive materials identified as military property.

Requests to the Regional Coordinating Office (RCO) for assistance by DOD elements for non-weapon related incidents should be made through the Albuquerque Operations Office (DOE-JNACC), unless an immediate local response by the military is necessary to deal with the incident as soon as possible.

DOE-JNACC at Kirtland Air Force Base in Albuquerque, New Mexico, must be informed, through the DOE Albuquerque Operations Office, when the radiological assistance capability of a Regional Coordinating Office is unavailable.

In the event of an accident involving nuclear weapons, military vehicles suspected of carrying nuclear weapons, or radioactive materials identified as military property, the incident must be reported immediately to the nearest military installation, DOE office or JNACC (Phone # 505-845-4667).

The DOE and DOD have agreed on the following general divisions of responsibility between them in all cases of accidents involving nuclear weapons:

- a. Immediate responsibility for providing technical direction at the scene of an accident will be assumed by the first DOD or DOE official to arrive at the scene of the accident until relieved by appropriate authorities. Depending on ownership of the shipment will determine which agency will be the LFA.
- b. Primary command responsibility at the scene of the accident will be assumed by the branch of service or DOE having physical possession of the nuclear material at the time of the accident. Nuclear weapons are classified items and, as such, must be safeguarded at all times. Couriers accompanying shipments of nuclear material are the direct custodians of the material. While physically able, it is the courier's responsibility to protect the material from loss or security compromise (i.e., viewing and handling by unauthorized persons).

The Courier Commander in Charge is the Incident Commander for these types of shipments.

2.5 State Agencies

Each state in DOE Region 6 has a radiological health agency responsible for the assessment of radiological incidents occurring within the state and for taking the appropriate actions to protect the public health and safety upon notification of the incident. The role of RAP is to provide assistance to these agencies in carrying out their responsibilities.

2.6 Other Organizations

There are several other federal and state organizations which can contribute significantly to radiological incident response, depending on the nature and the scope of the incident. For example, if a response under the guidelines in the Federal Response Plan was deemed necessary, some of the following agencies may become involved in the incident response:

- Federal Emergency Management Agency (FEMA)
- Department of Agriculture (DOA)
- Department of Transportation (DOT)
- Environmental Protection Agency (EPA)
- Nuclear Regulatory Commission (NRC)
- Department of Commerce (DOC)
- Department of Defense (DOD)
- Health and Human Services (HHS)
- Department of Interior (DOI).

Appendices 1 and 2 list contacts and telephone numbers for other federal and state agencies involved in radiological incident response.

3.0 DESCRIPTION OF DOE REGION 6 RESOURCES

The DOE, through contracting organizations, maintains a core of highly expert and qualified staff for the RAP. The actual radiological equipment and procedures are those developed for, and consistent with, existing DOE orders and guidance for normal operations and on-site radiological incidents and other off-site programs.

DOE Region 6 RAP Teams consist of DOE and contractor personnel who represent the fields of health physics, public affairs, industrial hygiene and safety, and emergency management. DOE Region 6 facilities maintain and store equipment and supplies dedicated to the RAP. The dedicated equipment is stored in kits for an immediate response capability. This equipment includes but is not limited to radiation detection instrumentation, radiological control supplies, personal protective equipment, reference materials, and applicable forms.

An Emergency Response Vehicle, located at the INEL, is also available which contains communications equipment, health physics instrumentation, and radiological control equipment, and personal protective equipment appropriate for responding to a radiological incident in the off-site environment.

A 4-wheel drive utility vehicle, 4-wheel drive pickup truck and enclosed trailer, are located at Grand Junction. The vehicles and trailer contain communications equipment, health physics instrumentation, and radiological control equipment and personal protective equipment appropriate for responding to a radiological incident in the off-site environment.

Rocky Flats has two dedicated vehicles containing equipment similar to that mentioned in the previous paragraphs and available to respond to a radiological incident in the off-site environment.

The selection and composition of the RAP Team dispatched by the RRC are dependent upon a number of factors such as location, type, and severity of the incident; relative distances of the various responding RAP Teams and their respective capabilities.

RAP Teams are deployed in support of the state or tribal authorities and are not intended to direct actions at the scene or to assume command and control.

A Public Information Officer (PIO) may accompany a DOE Region 6 RAP Team to an incident scene, to function as the team's spokesperson. In the absence of this individual, the RAP Team Leader will function in this capacity. It is the policy of DOE that unclassified information about incidents is given to the public as soon as possible to avert fear or concern and to encourage public understanding.

At an incident scene, it is usually preferable to have announcements made by state, tribal, or local officials. Such announcements should emphasize that the DOE is providing technical assistance to local authority.

All public information released concerning accidents involving nuclear weapons or weapons components or radioactive materials will be coordinated with DOE-JNACC prior to release.

4.0 RAP SCALED RESPONSE

The RAP Scaled Response (RSR) affords compliance with the concept of operations as stated in DOE Order 5530.3, Radiological Assistance Program. RSR offers a cost-effective means by which all DOE facilities can provide radiological assistance to the local community and still be combined with other RAP resources to respond to radiological incidents at regional and national levels. The RSR logic ensures that a radiological response capability, except for major incidents requiring a Federal Radiological Monitoring and Assessment Center (FRMAC), is available to any Regional Coordinating Office (RCO). RSR can place all DOE emergency assets at the disposal of the RCO.

RSR is broken into three types of responses:

- Local RAP Team
- Intra-Regional RAP Team(s)
- Inter-Regional RAP Team(s)

Local RAP Teams provide assistance to radiological incidents as required. It is envisioned that the majority of RAP responses will be within the response capability of a local RAP Team. Should the capability of a local RAP Team be exceeded, other teams from within the region can be called to respond. This would include the need for additional radiation monitoring or where the length of the response will involve shift work.

Should the need arise for assets beyond the resources of the Regional Coordinating Office, the Regional Response Coordinator (RRC) can request additional DOE resources. The RRC can effectively request additional RAP Teams and other DOE assets.

The larger the support, the more difficult it will be to provide a coordinated response. Besides the interregional RAP support, some additional DOE emergency response assets may be requested, including DOE Augmentation Teams. The RRC may need additional assessment and evaluation of both projected and field data.

The RRC can utilize and benefit from DOE Augmentation Teams. These teams are cadres consisting of highly trained personnel with dedicated, specialized equipment.

RAP SCALED RESPONSE GRAPH

RED/BD95 0245

The RCO/RRC may:

1. Request assistance from adjacent RAP regions that may have:
 - a. A shorter "response time"
 - b. Additional manpower and/or equipment
 - c. Special radiological expertise appropriate to the incident.
2. Request DOE-HQ to activate and/or deploy other DOE emergency response assets (see below):
3. Request FRMAC to send one or more "Augmentation Teams" to the region.

4.1 Other DOE Emergency Response Assets Available for the RAP

The Regional Coordinating Office can request the RAP assets of other DOE facilities, if the need exists. Requests are made in coordination with DOE Headquarters Emergency Operations Center (EOC) through the 24-hour telephone number. Depending on the magnitude of the incident, DOE may complement its resources with those of other federal agencies under the auspices of the FRERP, or augment response capabilities with the formation of a FRMAC, if warranted.

There are many specialized equipment capabilities located throughout the DOE contractor system which may be made available for specialized needs during radiological incidents. The members of the RAP Teams and the Regional Response Coordinators are knowledgeable about these assets.

These assets are listed here and discussed in the remainder of Section 4.

- a. Aerial Measuring System (AMS)
- b. Atmospheric Release Advisory Capability (ARAC)
- c. Federal Radiological Monitoring and Assessment Center (FRMAC)
- d. Radiological Emergency Assistance Center/Training Site (REAC/TS)
- e. Nuclear Emergency Search Team (NEST)
- f. Accident Response Group (ARG)

4.1.1 Aerial Measuring System (AMS) - DOE-NV

A DOE Nevada Operations Office (DOE-NV) contractor maintains a capability to 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 or a large area continuous release or contamination incident. The survey systems are staged from either helicopter or fixed-wing aircraft and are equipped with gamma or neutron detection equipment which can provide a timely initial estimate of concern to determine the extent of contamination areas which can be used to determine dose projections within those areas. Aerial photography can be performed simultaneously with isodose and isoconcentration curves plotted within a reasonable time frame after the initial incident. These resources are used primarily for making a rapid radiological assessment of a substantial land area and the analysis and identification of the radioactive emissions from a source. This measurement service is available at all times for emergency use for the entire DOE RAP.

4.1.2 Atmospheric Release Advisory Capability (ARAC) - LLNL

Another major DOE resource maintained at the Lawrence Livermore National Laboratories (LLNL) in Livermore, California is the Atmospheric Release Advisory Capability (ARAC). The purpose of this capability is to have, in a constant state of readiness, a predictive plume movement and dose projection tool for use at DOE facilities and production complex locations which can give real time dose projections in the areas around nuclear facilities. The DOE has developed this capability to be able to tap into real time weather patterns and data maintained by the National Weather Service and can link into this computer database anywhere in the country. ARAC uses computer programs which have operational models that can estimate the consequences of atmospheric releases of hazardous materials on a local, regional, or global basis. Depending on the availability of local weather data, ARAC can produce local (5-10 km) worst case estimates within minutes of notification of an incident and request for assistance. The initial information contained in the plume plots will be uncertain, but the best estimate of anticipated worst case isodose curves. These plots can be updated as more detailed site topography and weather data are transmitted to the ARAC center and incorporated in the dispersion analyses.

4.1.3 Federal Radiological Monitoring and Assessment Center (FRMAC) - DOE-NV

DOE-NV has the overall responsibility for management of DOE resources during a response to a major radiological incident. A major radiological incident exists when a request for DOE assistance from a DOE facility or any local, state, tribal, or other federal agency requires capabilities that exceed the DOE Regional Coordinating Offices's capabilities.

DOE-NV's role as the lead office during a major radiological incident is designed to integrate the capabilities available from DOE, state, and local governments, and other federal agencies through a field-based command post with standardized, flexible response capabilities. This command post is called the Federal Radiological Monitoring and Assessment Center (FRMAC).

The FRMAC is where all the federal agencies participating in or supporting radiological monitoring and assessment activities can direct and coordinate their efforts. DOE management and staff support, initiate, and maintain effective coordination of FRMAC operations with state, local, and/or tribal agencies. The purpose of FRMAC is to produce compiled, quality-controlled monitoring and assessment data for the LFA and the state, local, and/or tribal authorities.

A FRMAC can be established and fully operational within 24 hours from the time a request is received for assistance.

4.1.4 Radiation Emergency Assistance Center and Training Site (REAC/TS) - DOE-OR

The Radiation Emergency Assistance Center and Training Site (REAC/TS) is maintained by the DOE Oak Ridge Operations Office in the Methodist Medical Center, Oak Ridge, TN. It is a fixed facility serving as a definitive emergency care center for radiation accident victims.

The REAC/TS 24-hour response capabilities include, but are not limited to, providing a medical consultation team, consisting of approximately 30 people, as part of the DOE/DOD ARG and conducting research in cytogenetic dosimetry and the use of chelating agents.

4.1.5 Nuclear Emergency Search Team (NEST) - DOE-NV

The Nuclear Emergency Search Team (NEST) is managed by DOE-NV in Las Vegas, NV. NEST is prepared to locate weapons or to respond to the threat of nuclear terrorist activity. NEST, in conjunction with other federal agencies, would provide monitoring, assessment, and control in the event of weapons related threats.

4.1.6 Accident Response Group (ARG) - DOE-AL

The Accident Response Group (ARG) is managed by the DOE Albuquerque Operations Office (DOE-AL) in Albuquerque, NM and is prepared to respond to any nuclear weapons, weapon's components, or other special nuclear materials accident. Because of the proximity of Region 6 RAP Teams, they may reach the incident site prior to the arrival of an ARG team. In that case the Region 6 RAP Team will make contact with the Courier Commander in Charge or other DOE or Department of Defense (DOD) official at the scene and will provide radiological monitoring and assessment until the arrival of an advance ARG team.

4.2 Other DOE Equipment Available to RAP

4.2.1 HOTSPOT Mobile Laboratory - LLNL

The DOE Albuquerque Operations Office Accident Response Group component at LLNL in Livermore, California, maintains a field deployable, air transportable radiochemical laboratory, HOTSPOT, for response to nuclear weapons incidents. This is used to analyze, identify, and document radioactive contamination at the scene of a weapons incident. The unit consists of two trucks and two trailers and is designed to be transported by one U.S. Air Force C-141 aircraft. Each of the two trucks and trailers carries specialized equipment and supplies.

This capability is available to the entire DOE RAP, through DOE-HQ/DP-20. The laboratory can support analyses of smear, soil, air, water, and vegetation samples in the event of a radiological incident. The counting laboratory trailer contains a 1024 channel, pulse height analyzer and other counting equipment for the analysis of radionuclides associated with weapons incidents.

Counting techniques supported by the laboratory are:

- Gross alpha, beta, and gamma
- Tritium counting
- Gamma spectroscopy
- Direct wound and thyroid counting.

The generator truck carries a 40 kW generator-powered heater and air conditioner combination for the trailer units. The other truck carries a diverse inventory workshop and a 250-gallon water tank.

4.2.2 RANGER - LANL

RANGER is a sophisticated ground contamination survey system capable of providing radiation levels and position for isodose curve plotting maintained by Los Alamos National Laboratory (LANL) for the DOE. The system uses the VIOLINIST-II detection system, a portable 256-channel analyzer, and a microprocessor.

The telemetry signals from the mobile instruments have a line-of-sight operational distance from the base station of 1 km or greater, depending on the terrain and level of vegetation.

RANGER can be deployed with minimum support equipment (e.g., anti-Cs). However, RANGER provides all its own power requirements in the field and is designed to operate under a number of environmental conditions (heat, cold, wet, and rugged terrain).

5.0 RAP ACTIVATION

5.1 Communications

Requests for the DOE Region 6 RAP are generally received through the RCO at DOE-ID's Warning Communications Center (WCC). However, calls may be directed to the DOE Headquarters Emergency Operations Center. As many essential details as possible are obtained regarding the incident from the caller and how he or she may be contacted. The DOE Region 6 24-hour emergency telephone number is:

DOE-ID WCC -- (208) 526-1515

5.2 Notifications within Region 6

The DOE Region 6 RRC or CRC will obtain all pertinent information about the incident, provide immediate guidance and advice, and initiate appropriate radiological assistance. The individual who receives the notification will complete the *DOE Region 6 Radiological Assistance Program Incident Report Information Form*, IDF-5530.3B, (Appendix 3) at the location where the call was received. As a minimum, the following information will be obtained:

- a. Nature of incident;
- b. Name, title, location and telephone number of person making the report;
- c. Time of incident;
- d. Location of incident;
- e. Accessibility of location;
- f. Fire or other hazard involvement;
- g. Urgency of response and seriousness of incident;
- h. Weather conditions;
- i. Personnel involved (injuries, contamination, etc.);
- j. Local, state, or federal agencies notified and on scene at the incident, and;
- k. News reports of the incident and whether false or exaggerated reports are known to have circulated.

The CRC will confer with the RRC and the RCO regarding the request and nature of the incident and the need for RAP involvement prior to DOE Headquarters notification (and the appropriate local, state, federal, or private authorities).

5.3 Notification of DOE Headquarters

The DOE Headquarters EOC will be notified by either the RCO or the RRC:

- Within 15 minutes after receipt of a request for emergency assistance; and
- Within 15 minutes of off-site deployment of DOE/contractor personnel and resources for emergency radiological assistance;
- When DOE facilities or materials are involved or thought to be involved in an incident;
- When the responding RCO requests assistance from other RCO's, or regional offices of other federal agencies, or;
- When the incident may be subject to significant attention from the media.

5.4 Activation of a DOE Region 6 RAP Response

Depending on the scenario and incident location, other DOE facilities in DOE Region 6 may be called upon to respond to radiological incidents. Concurrent with the initiation of response actions by any of these organizations, the WCC will be notified.

In unusual circumstances, another RCO may be requested by the Region 6 RCO to respond to a radiological incident within its borders, when the incident site is closer to the other RCO.

For requests involving licensee operations in DOE Region 6, the nearest Nuclear Regulatory Commission (NRC) office will be notified and provided with all available information regarding the request. The RRC will continue to coordinate the radiological assistance response action even when an NRC representative is at the incident scene, unless the NRC is the LFA.

The CRC will continue to coordinate and supplement the incident response with the concurrence of the RRC until such time as the incident is considered terminated.

5.4.1 RAP Team Deployment Criteria

Upon request and recommendation of the RRC and CRC, the RCOD will direct the appropriate DOE Region 6 response to a radiological incident. The RCOD will act for the DOE-ID Manager with full decision making authority in handling the incident. The RCOD will make the final decision on RAP Team deployment based upon the three requirements for RAP deployment.

Requirements to Deploy a RAP Team

- Incident involving DOE/DOD radiological material.
- Request from state or a tribe, or state concurrence for a local or private individual request for radiological assistance.
- As required by an existing Memorandum Of Understanding (MOU) or other formal agreement.

The RCOD will evaluate the available information and with advice from the RRC, the CRC, and the applicable LRC make a decision whether DOE, other federal agencies, and/or state resources should be used to respond to the request for assistance.

If the incident report indicates a significant, or potentially significant, radiation hazard to personnel, the RCOD will direct the RRC or CRC to begin to assemble a RAP Team from the most appropriate DOE Region 6 facility. While the team is being assembled, additional information on the incident will be gathered prior to team dispatch.

A RAP Team will respond to offsite incidents involving DOE and non-DOE owned radiological materials. Such responses include DOE transportation incidents, as well as state, tribal, and private sector requests for assistance. In all such cases, the RRC is to be notified.

5.5 DOE-ID Emergency Operations Center (EOC)

The RCOD may decide to activate the DOE-ID Emergency Operations Center (EOC). If so, the EOC Manager will take action to have the appropriate support personnel take positions in the EOC. If the EOC is activated, the response is directed by the RCOD who functions as the Emergency Director (ED).

INEL support personnel with management expertise and special skills appropriate to the particular incident are assembled in the EOC. EOC support personnel may include legal, ES&H, security, public affairs, transportation, logistics, management support representatives, and other personnel as appropriate.

The RCOD, with the help of the RRC and other support personnel will direct the overall assistance activities. The EOC becomes the crisis command center for decision making as well as for logistical support to make resources available to provide assistance for mitigation of the accident or crisis.

5.5.1 Rocky Flats Emergency Operations Center (EOC)

The Rocky Flats EOC will be activated in support of a DOE Region 6, Rocky Flats RAP Team response. The EOC may be activated to provide technical assistance upon the request of the RCO, if deemed appropriate, even if the Rocky Flats RAP isn't mobilized. The level of staffing will be on a case by case basis depending on the incident scenario. The Rocky Flats LRC will coordinate his or her decisions and actions through the RCO EOC.

5.5.2 Grand Junction Emergency Operations Center (EOC)

The Grand Junction EOC will be activated in support of a DOE Region 6, Grand Junction RAP Team response. The EOC may be activated to provide technical assistance upon the request of the RCO if deemed appropriate, even if the Grand Junction RAP isn't mobilized. The level of staffing will be on a case by case basis depending on the incident scenario. The Grand Junction LRC will coordinate his or her decisions and actions through the RCO EOC.

5.6 Mode of Travel

The mode of travel to the incident scene is determined by a number of factors such as the location, severity and urgency of the situation, distance from the Idaho Falls, the Denver/Golden, or the Grand Junction areas, time of day (regular or nonregular working hours), weather conditions, etc.

A. Motor Vehicle

For incidents occurring within 250 miles of the respective field offices, RAP Teams will normally use a radio-equipped government vehicle.

B. Aircraft

For RAP Teams responding to incidents occurring greater than 250 miles from the field offices, air transportation will be considered (weather permitting).

a. Charter or Contract Aircraft

Charter or contract aircraft services may be used to dispatch a Region 6 RAP Team anywhere on short notice.

b. Commercial Aircraft

Commercial air flight arrangements from each respective operations office will be coordinated by the responsible operations office.

c. DOE-Owned Aircraft

The INEL has a helicopter capable of deploying a 7-man RAP Team with equipment from the INEL to anywhere within DOE Region 6. However, this aircraft is primarily used for security, therefore, its availability is on a case-by-case basis.

DOE-AL controls Ross Air Lines, located at Kirtland Air Force Base in Albuquerque, NM, and can be used to transport RAP Teams whenever possible.

6.0 TRAINING/DRILLS AND EXERCISES

Specific levels of training will be required for assignment to a RAP Team and additional training will be required to staff specific positions. RAP personnel will not be deployed without the required training unless authorized by the RRC with the concurrence of the CRC. Regional training requirements will be defined in a regional procedure and are consistent with standardized requirements established by DOE-Headquarters.

All Region 6 RAP training will be coordinated through the Regional Coordinating Office under the auspices of the CRC. This coordination will provide a cost-effective means to ensure that all Region 6 RAP Team members receive and maintain the proscribed standard of training.

At least annually, Region 6 will be required to actively participate in an annual full participation exercise with state, local, or tribal agencies within the region. Quarterly drills are to be conducted locally to develop and maintain proficiency and improve response capabilities for each local RAP Team. Quarterly table top drills will also be conducted with a scheduled regional conference call.

7.0 ADMINISTRATION

7.1 Introduction

RAP administration requirements are defined in DOE Order 5530.3 with the designation of the Regional Coordinating Offices. As mentioned above the Idaho Operations Office (DOE-ID) is the Regional Coordinating Office for Region 6.

The DOE-ID Manager has the responsibility to name a RAP Program Manager, who in Region 6 is also the primary RRC. The RAP Program Manager provides program direction, control and oversight on all Region 6 RAP activities. The RAP Program Manager has the responsibility to develop Program Execution Guidance.

Through contractual obligations, the INEL Management and Operations contractor has the responsibility for regional, daily RAP operations. These responsibilities have been assigned to an individual designated as the CRC. The CRC is detailed to the Region 6 RAP Program Manager on a full-time basis and has the responsibility for the daily administration and coordination activities within Region 6. The CRC's responsibilities include, but are not limited to, the regional RAP budget, moderating regional conference calls, biannual regional coordinating meetings, and representing Region 6 RAP to state, local, and tribal agencies, assisting the RRC during Region 6 RAP Team deployments, etc.

A RAP response is not considered a "Facility" nor is the RAP Team Leader or RRC considered a "DOE Facility Representative" or a "Facility Manager" as defined in paragraph 5, Definitions, DOE Order 5000.3B, *Occurrence Reporting and Processing of Operations Information*. During a response, RAP Team Leaders and/or RRCs meet the exclusion reporting requirements as stated in DOE Order 5000.3B, paragraph 3d, Scope, and therefore need not report. However, "after-action reports" for all RAP activities will be completed detailing response activities and any identified corrective actions.

Occurrences that relate directly to internal RAP operations, i.e., training, exercises, drills, etc., versus occurrences that deal with an operational response or a facility incident to which a RAP response is made, will be reported in accordance with DOE Order 5000.3B, paragraph 8, Implementation Requirements.

After Action Reports will be drafted and forwarded to the Region 6 RAP Program Manager within 5 work days after termination of the actual response, drill, or exercise. Drill and exercise reports should detail any findings and suggested corrective actions. Actual response reports should detail the initiating circumstances, response time line, RAP Team actions, and any findings related to the response.

7.2 Audits and Appraisals

Audits relating to DOE Order 5530.3 and Region 6 program plan and procedure compliance will be conducted at least annually. The audits should examine training, equipment status, plan and procedure compliance, etc.

Each year an Emergency Readiness Assurance Plan should be drafted and submitted to the Regional Coordinating Office outlining Region 6 RAP capabilities and response history.

APPENDIX 1
DOE REGION 6
EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
Idaho National Engineering Laboratory (INEL Warning Communications Center) 24-Hour Number	(208) 526-1515	
<u>Regional Response Coordinators</u>		
DOE Region 6 RAP Program Manager & Primary RRC		
Steven A. Morreale, DOE-ID	(208) 526-0199	(208) 356-4636
	Pager (208) 526-4444:5905	
	Fax (208) 526-7414 or (208) 526-7245	
Alternate Contacts:		
John Medema	(208) 526-1407	(208) 522-1731
	Pager (208) 526-4444:7562	
	Fax (208) 526-0160	
Don Michaelson	(208) 526-5325	(208) 525-8983
	Pager (208) 526-4444:5575	
	Fax (208) 526-1184	
Richard Dickson	(208) 526-0107	(208) 523-3023
	Pager (208) 526-4444:6018	
	Fax (208) 526-1926	
Glenn Nelson	(208) 526-0077	(208) 529-4354
	Pager (208) 526-4444:5579	
	Fax (208) 526-0553	
Shelby Kawa	(208) 526-5188	(208) 529-2830
	Pager (208) 526-4444:6443	
	Fax (208) 526-7040	

APPENDIX 1

DOE REGION 6 EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
<u>DOE Region 6/INEL RAP</u>		
DOE Region 6 Contractor RAP Coordinator		
Frank M. Jakubowski	(208) 526-2550	(208) 524-3154
	Pager (208) 526-4444:5496	
	Fax (208) 526-7143	
<u>Alternate Contacts:</u>		
Gregory G. Hall	(208) 526-8663	(208) 528-6207
	Pager (208) 526-4444:6555	
	Fax (208) 526-8959	
Henry K. Peterson	(208) 526-8657	(208) 523-9358
	Pager (208) 526-4444:6560	
	Fax (208) 526-9822	
Paul E. Ruhter	(208)526-1973	(208)522-1704
	Pager (208)526-4444:6165	
	Fax (208)526-4759	

APPENDIX 1

DOE REGION 6 EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
Rocky Flats Environmental Technology Site		
24-Hour Number	(303) 966-2914	
 <u>DOE-Rocky Flats Field Office</u>		
LRC/Program Manager		
Bert Crist	(303) 966-7793	(303) 466-8629
	Pager (303) 966-4000:7131	
	Fax (303) 966-4629	
 Alternate Contact:		
Peter Lee	(303) 966-3137	(303) 467-9181
	Pager (303) 966-4000:7828	
	Fax (303) 966-4763	
 <u>Rocky Flats Environmental Technology Site</u>		
RAP Administrator		
Claus Casavan	(303) 966-7721	(303) 423-3748
	Pager (303) 966-4000:8048	
	Fax (303) 966-5206	
 Alternate Contact:		
Wayne Spiegel	(303) 966-5400	(303) 469-3949
	Pager (303) 966-4000:8008	
	Fax (303) 966-5206	

APPENDIX 1

DOE REGION 6 EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
Grand Junction Projects Office		
24-Hour Number	(970) 248-6070	
24-Hour Fax	(970) 248-6040	
<u>DOE-Grand Junction Projects Office</u>		
LRC/Program Manager		
Bo Kim	(970) 248-7620	(970) 256-7464
Alternate Contact:		
Dale Christian	(970) 248-6049	(970) 858-0581
<u>Rust Geotech</u>		
Local RAP Coordinator		
Chris Brownlee	(970) 248-6707	(970) 245-8371
	Pager (970) 248-7777:109	
USDOE Headquarters	(202) 586-8500	
24-Hour Number		

APPENDIX 1

DOE REGION 6 EMERGENCY NUMBERS

DOE REGION 6

Business Number

Other Emergency Response Organizations

U.S. ENVIRONMENTAL PROTECTION AGENCY

Region 8 (Denver, CO)	(303) 293-1603
Region 10 (Seattle, WA)	(206) 553-0479

FEDERAL BUREAU OF INVESTIGATION

(Idaho Falls, ID)	(208) 522-5921
(Salt Lake City, UT)	(801) 355-7521

FEDERAL EMERGENCY MANAGEMENT AGENCY

Region 8 (Denver, CO)	(303) 235-4812
Region 10 (Seattle, WA)	(206) 487-4600

DEPARTMENT OF AGRICULTURE

Mountain Plains Region (Denver, CO)	(303) 844-0300
Western Region (San Francisco, CA)	(415) 705-1310

DEPARTMENT OF COMMERCE (National Oceanic and Atmospheric Administration)

Central Region (Kansas City, MO)	(816) 426-5400
Western Region (Salt Lake City, UT)	(801) 524-5122

DEPARTMENT OF DEFENSE (Atomic Energy)

Military Applications (Washington, D.C.)	(703) 697-5161
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DEPARTMENT OF INTERIOR (Bureau of Land Management)

Region 3 (Billings, MT)	(406) 255-2904
Region 4 (Boise, ID)	(208) 384-3001
Region 5 (Cheyenne, WY)	(307) 775-6001
Region 6 (Lakewood, CO)	(303) 239-3701
Region 11 (Salt Lake City, UT)	(801) 539-4010

APPENDIX 1

DOE REGION 6 EMERGENCY NUMBERS

DOE REGION 6

Business Number

Other Emergency Response Organizations

DEPARTMENT OF TRANSPORTATION (Federal Highway Administration)

Region 8 (Lakewood, CO) (303) 969-6722

Region 10 (Portland, OR) (503) 326-2053

HEALTH AND HUMAN SERVICES

Region 8 (Denver, CO) (303) 844-3372

Region 10 (Seattle, WA) (206) 553-0420

U.S. NUCLEAR REGULATORY COMMISSION

Region 4 (Arlington, TX) (817) 860-8225

DOE-JNACC (Albuquerque, NM) (505) 845-4667

DOD-JNACC (Alexandria, VA) (703) 325-2102

CHEMTREC (24-hour) (800) 424-9300

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

COLORADO

Business Number

Colorado Department of Public Health & Environment (CDPHE)

4210 East 11th Avenue

Denver, CO 80220

(303) 692-2000

Point of Contact

CDPHE Emergency Management Unit

State 24-Hour Emergency Number

(303) 756-4455

(303) 890-1669

CDPHE Radiation Control Division

(303) 692-3030

CDPHE Hazardous Waste Division

(303) 692-3300

Environmental Radiation

(303) 692-3051

Colorado State Patrol Communications Center

(24-Hour Number)

(303) 239-4532

Colorado Office of Emergency Management

(State EOC)

(303) 279-8855

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

IDAHO

Idaho Department of Health and Welfare
LBJ Building
650 West State
Boise, ID 83720

Division of Environmental Quality	(208) 334-5893
Bureau of Hazardous Materials	(208) 334-5879
Compliance Section - Radiation Control	(208) 334-5500
Idaho State Police (24-Hour Numbers)	(208) 334-3649 (208) 334-2900
Emergency Medical Services	(800) 632-8000

MONTANA

Montana Department of Health and Environmental Services
Occupational Health Bureau
W. F. Cogswell Building
Helena, MT 59601

Occupational Health Bureau	(406) 444-3671 (406) 442-7491
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APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

Business Number

UTAH

Primary Contact:

Emergency Response Officer (24 HR) (801)538-3400

Utah Department of Environmental Quality (DEQ)

Division of Radiation Control (DRC)

168 North 1950 West

P.O. Box 144850

Salt Lake City, UT 84114-4850

DRC Office (Voice) (8am-5pm M-F) (801)536-4250

DRC Office (Fax) (801)531-8128

DEQ (24 HR) (801)536-4123

Utah Department of Public Safety

Utah Highway Patrol, Hazmat Section (UHP)

4501 South 2700 West

Salt Lake City, Utah 84119

UHP Salt Lake City Dispatch Center (801)576-8606

UHP Office (Voice) (8am-5pm M-F) (801)965-4089

UHP Office (Fax) (801)965-4716

Utah Department of Public Safety

Division of Comprehensive Emergency Management (CEM)

State Office Building, Room 1110

Salt Lake City, Utah 84114

CEM Office (Voice) (24 HR) (801)538-3400

CEM Office (Fax) (801)538-3770

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

WYOMING

Business Number

Wyoming Department of Health and Medical Services

State Office Building

Cheyenne, WY 82001

(307) 777-6015

Point of Contact

Wyoming Highway Patrol

Within Wyoming

(307) 777-4321

(800) 442-9090

Cellular

#HELP

APPENDIX 3

DOE REGION 6 REPORT FORMATS

DOE Region 6
Radiological Assistance Program
Incident Report Information Form

IDF-5530.B
(Rev. 5-93)
Ref. DOE 5530.3

DOE REGION 6 RADIOLOGICAL ASSISTANCE PROGRAM INCIDENT REPORT INFORMATION FORM

This form will be completed by the receiver of the call.

Time of call: _____ Date: _____
Receiver of call: _____ Title: _____
Organization: _____
Caller: _____ Title: _____
Location of caller: _____
Contact phone number: _____

INFORMATION RECEIVED

Type incident

- () A. TRU waste transport
() B. Radioactive materials transport
() C. Nuclear weapon accident
() D. Research facility
() E. Nuclear reactor
() F. Other

Incident Date: _____ Incident Time: _____

Location of incident: _____

Brief details of incident: _____

Is fire involved: _____

Other hazardous materials: _____

Has a cordon/exclusion area been established at scene:

() Yes () No

**DOE REGION 6 RAP
QUARTERLY/ANNUAL REPORT**

RADIOLOGICAL ASSISTANCE PROGRAM DOE REGION 6 QUARTERLY/ANNUAL REPORT FOR _____, 19	
Location:	Submitted by:
Administrative/General Information:	
Training/Drills and Exercises	
Problems/Issues	
Responses	
Approved:	Date:

APPENDIX 4

OTHER APPLICABLE REGION MAPS

1. DOE Field Facilities and Operations
2. Department of Energy, Regional Coordinating Offices for Radiological Assistance and Geographical Areas of Responsibility
3. DOE Region 6 Areas of Responsibility
4. Locations of DOE Radiological Assistance Program Teams
5. Federal Emergency Management Agency, Regional Boundaries
6. Administrative Organization of the National Weather Service
7. Nuclear Regulatory Commission, Regional Office Locations
8. U.S. Environmental Protection Agency, Major Installations
9. Health and Human Services, The Food and Drug Administration, Regions and Districts

DOE Field Facilities and Operations

DEPARTMENT OF ENERGY
REGIONAL COORDINATING OFFICES
FOR
RADIOLOGICAL ASSISTANCE
AND
GEOGRAPHICAL AREAS
OF RESPONSIBILITY

REGIONAL COORDINATING OFFICE	POST OFFICE ADDRESS	TELEPHONE FOR ASSISTANCE
① BROOKHAVEN AREA OFFICE	Upton, L.I. New York 11973	(516) 282-2200
② OAK RIDGE OPERATIONS OFFICE	P.O. Box E Oak Ridge, Tennessee 37830	(615) 576-1005 (615) 525-7885
③ SAVANNAH RIVER OPERATIONS OFFICE	P.O. Box A Aiken, S.C. 29801	(803) 725-3333
④ ALBUQUERQUE OPERATIONS OFFICE	P.O. Box 5400 Albuquerque, New Mexico 78115	(505) 845-4667
⑤ CHICAGO OPERATIONS OFFICE	9800 S. Cass Ave. Argonne, Illinois 60439	(708) 252-4800 (708) 252-5731
⑥ IDAHO OPERATIONS OFFICE	850 Energy Dr. Idaho Falls, Idaho 83402	(208) 526-1515
⑦ OAKLAND OPERATIONS OFFICE	1333 Broadway Oakland, California 94612	(510) 637-1794
⑧ RICHLAND OPERATIONS OFFICE	P.O. Box 550 Richland, Washington 99362	(509) 373-3800

Region 6 RAP Elements Geographic Areas of Responsibility

- ★ INEL RAP Team
- ▲ Grand Junction Projects Office RAP Team
- Rocky Flats Field Office RAP Team

M95 0384

Locations of Radiological Assistance Program Teams Department of Energy

• Radiological Assistance Program Teams

■ Field Offices

Federal Emergency Management Agency Regional Boundaries

Administrative Organization of the National Weather Service

National Weather Service
Headquarters
8060 13th Street
Silver Spring, MD 20910

★ NWS Headquarters

● Regional Headquarters

① National Weather Service
Eastern Region
585 Steward Avenue
Garden City, NY 11530	③ National Weather Service
Central Region
601 East 12th Street, Room 1836
Kansas City, MO 64106	⑤ National Weather Service
Alaska Region
701 C Street, Box 23
Anchorage, AK 99513
② National Weather Service
Southern Region
819 Taylor Street, Room 10E09
Fort Worth, TX 76102	④ National Weather Service
Western Region
Federal Building, Box 11188
Salt Lake City, UT 84147	⑥ National Weather Service
Pacific Region
Federal Building
Room 4110
P.O. Box 50027
Honolulu, HI 96850

192 0161

Nuclear Regulatory Commission Regional Office Locations

U.S. Environmental Protection Agency Major Installations

Health and Human Services The Food and Drug Administration Regions and Districts

★ Food and Drug Administration
Regional Offices