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**RADIOLOGICAL ASSISTANCE PROGRAM
DOE REGION 6
RESPONSE PLAN**

Frank M. Jakubowski

Published February, 1993

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

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

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REFERENCES

1. DOE 5000.3A, *Occurrence Reporting and Processing of Operations Information*, May 30, 1990.
2. DOE 5500.2A, *Emergency Notification, Reporting, and Response Levels*, April 13, 1988.
3. DOE 5500.10, *Emergency Readiness Assurance Program*, April 30, 1991.
4. DOE 5530.1, *Response to Accidents and Significant Incidents Involving Nuclear Accidents*, January 28, 1983.
5. DOE 5530.1A, *Accident Response Group*, September, 20, 1991.
6. DOE 5530.2, *Nuclear Emergency Search Team*, September, 20, 1991.
7. DOE 5530.3, *Radiological Assistance Program*, January 14, 1992.
8. DOE 5530.4, *Aerial Measuring System*, September, 20, 1991.
9. DOE 5530.5, *Federal Radiological Monitoring and Assessment Center*, July 10, 1992.
10. DOE 5635.4, *Protection of Unclassified Controlled Nuclear Information*, February 3, 1988.
11. DOE 5650.2B, *Identification of Classified Information*, December 31, 1991.
12. 50 FR 46542, *Federal Radiological Emergency Response Plan (FRERP)*, November 8, 1985.

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

Figure 1

1.0 INTRODUCTION AND PROGRAM PHILOSOPHY

This program plan meets all the requirements identified in DOE Order 5530.3, *Radiological Assistance Program* and supports those requirements leading to the establishment of a Federal Radiological Monitoring and Assessment Center (FRMAC) as required by DOE 5530.5.

The U.S. Department of Energy (DOE) has sponsored a Radiological Assistance Program (RAP) since the late 1950's. The RAP program is designed to make DOE resources available to other DOE facilities, state, tribal, local, and other governing agencies for the explicit purpose of assisting in mitigation of radiological incidents. The DOE program philosophy is one of assistance to those entities requesting RAP participation in the resolution of a radiological incident. The DOE has a statutory obligation to provide resources through the Federal Radiological Emergency Response Plan (FRERP, Nov. 1985) in the event of a radiological incident. However, the DOE considers that the agency has a responsibility to minimize the hazard to the public regardless of the statutory requirements and regardless of the magnitude of the radiological incident. Toward this end, the RAP program is implemented 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, tribal, local, or other Federal agencies which can be used to effectively resolve a radiological incident.

Requests for radiological assistance may come from other DOE facilities, Federal or state agencies, tribal officials, or from any private corporation or individual. Many of the requests will be handled by a telephone call, a conference or a letter, teletype or memorandum. Other requests for assistance may involve radioactive material in serious accidents, fire, personal injuries, contamination or possible hazards to the general public. Some occurrences may require the dispatch of trained personnel equipped with radiation monitoring instruments and related equipment necessary to evaluate, control and neutralize the hazard. The primary responsibility for incidents involving radioactive material always remains with the party having custody of the radioactive materials. In addition, the DOE recognizes that the assistance provided shall not in any way preempt state, tribal, or local authority and/or responsibility on state or tribal properties. Toward this end, DOE assistance for non-DOE radioactive materials, is limited to technical assistance, advice, measurement and other resources as deemed necessary by the local authorities but excludes DOE interface with the public media. This is a function handled by the local or state Incident Commander.

1.1 Purpose

The purpose of the DOE Region 6 RAP program is to make DOE resources available to state, tribal, local or other agencies or other DOE facilities, to assist in resolving radiological emergencies or incidents where release of radioactive materials is suspected. The implementation of the RAP program is usually accomplished through the recommendation of the DOE field office Regional Response Coordinators (RRCs) or Emergency Coordinators. The DOE Idaho Field Office (DOE-ID) is the designated Regional Coordinating Office (RCO) for DOE RAP Region 6. The purpose of this document is:

- To describe the mechanism for responding to any organization or private citizen requesting assistance to effectively control radiological incidents;
- To provide assistance for those minor events whose major impact is one of public concern, and
- To coordinate radiological assistance among participating Federal agencies and the states in DOE Region 6.
- To provide the capability necessary to define the requirement or need for a Federal Radiological Monitoring and Assessment Center (FRMAC).

This plan does not provide specific guidance on implementation of the FRERP, nor response to nuclear weapon radiological incidents. Guidance on requesting FRERP is found within the response plan and nuclear weapons guidance will be provided by whoever owns the materials. In addition, the Radiological Assistance Program (RAP) does not relieve the individual DOE area offices or project offices of their responsibility for planning and implementation of emergency plans and procedures for on-site radiation incidents but can serve to supplement this plan, especially in those cases where DOE facility resources have been exceeded.

1.2 Scope

DOE Region 6 consists of five states including Colorado, Idaho, Montana, Utah, and Wyoming. The guidance set forth in this plan describes the RAP response to the following types of peacetime radiological incidents:

- Transportation incidents involving radioactive materials.
- Other incidents involving radioactive material releases.
- Radiological incidents at the three DOE facilities in DOE Region 6; Idaho National Engineering Laboratory, ID; Grand Junction Projects Office, CO; and Rocky Flats Plant, CO.

Requests for radiological assistance will 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 automatically be dispatched to independently evaluate the hazard potential to public health and safety.

The Idaho Field Office coordinates the Federal Radiological Monitoring and Assessment Plan (FRMAP) in DOE Region 6. In this capacity, DOE-ID serves as the Lead Federal Agency (LFA) in providing the framework through which participating Federal agencies will coordinate their emergency radiological monitoring and assessment activities with those of state and local governments.

The LFA is the Federal agency that owns, authorizes, regulates, or is otherwise held responsible for the facility or radiological incident. The LFA will manage all Federal actions at the incident scene, develop or evaluate protective actions and reentry recommendations, and help implement those actions by the State or other responsible authority and if the LFA's resources permit.

1.3 Objectives

The objectives of DOE Region 6 RAP are to:

- a. Provide the quickest and most effective radiological assistance under any condition and at any time;
- b. Use state and local resources to the maximum extent feasible to provide early response;
- c. Provide liaison with other DOE facilities, Federal, state, tribal, and local agencies in DOE Region 6;
- d. Coordinate DOE Region 6 Federal Radiological Monitoring and Assessment Plan (FRMAP) activities, as needed; and
- e. Provide information to the DOE-ID Manager and staff relative to radiological assistance operations in DOE Region 6 and the potential need to establish a FRMAC.

1.4 Limitations on Assistance

Unless there is a statutory requirement or existing agreement for DOE to respond, RAP assistance at the scene shall not normally be provided:

LIMITATIONS ON ASSISTANCE	
"NORMAL" (5530.3)	"NOT NORMAL" (ID Supplemental Directive)
"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 restructuring be impossible, support from other RAP elements within Region 6 will be deployed.

LIMITATIONS ON ASSISTANCE	
"NORMAL" (5530.3)	"NOT NORMAL" (ID Supplemental Directive)
<p>"In an off-site response (except in cases of immediate threat to life and health) without a State, tribal, or local government request for assistance."</p> <p>"For non-radiological incidents."</p>	<p>When it is known or suspected that DOE materials are involved thereby warranting an automatic RAP response.</p> <p>A RAP-like team will respond when agreements have been negotiated, requested, or for incidents involving DOE shipments. Such responses will be made by a subordinate team made up of ERO personnel with expertise in hazardous materials. Response team personnel shall be trained to the appropriate level defined in 29 CFR 1910.120, <i>Hazardous Waste Operations and Emergency Response</i>. The response team will only provide assistance in assessing the non-radiation hazard, survey for non-radioactive materials, and will not be a part of any recovery operation.</p>

2.0 ORGANIZATIONS AND RESPONSIBILITIES WITHIN DOE RAP REGION 6

DOE Region 6 contains three DOE facilities; Idaho National Engineering Laboratory (INEL), Rocky Flats Plant, and the Grand Junction Project Office. Rocky Flats and Grand Junction staff an emergency response organization (ERO) which includes Radiological Assistance Program Teams. The Radiological Assistance Program at the INEL is separated from the INEL on-site ERO programmatically, however, the INEL ERO does provide necessary support when the Radiological Assistance Program is activated. Each Region 6 Radiological Assistance Program Team is directed by DOE-ID.

Each DOE Region 6 RAP Team member shall be issued a Radiological Assistance Team identification card, DOE F 5500.1 (03/92), with attached photograph. The issuance and control of these identification cards shall be the responsibility of the issuing DOE facility.

Each DOE Region 6 RAP Team shall consist of at least the positions and hierarchy shown in the bottom half of Figure 2.

2.1 DOE Idaho Field Office (DOE-ID)

DOE-ID is the Regional Coordinating Office (RCO) for the Radiological Assistance Program and the Federal Radiological Monitoring and Assessment Plan within DOE Region 6. DOE-ID shall assign an individual to act as DOE Region 6 Regional Response Coordinator and RAP Program Manager.

The Regional Response Coordinator/Program Manager responsibilities are to:

- a. Expedite dispatch of RAP Teams upon approval of the DOE-ID Management Duty Officer 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 shall be with the respective state, tribal, and/or local agency.
- b. Dispatch a RAP Team upon approval of the DOE-ID Management Duty Officer for radiological incidents for which DOE is, or thought to be, the Lead Federal Agency (LFA).
- c. Provide assistance and make recommendations to the DOE-ID Management Duty Officer and the Emergency Director (ED).
- 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 FRMAC if incident conditions warrant.

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

Organization Chart

Figure 2

- f. Be a member on any Regional Assistance Committees established within the region.
- g. Be a member on the Regional Response Teams within the region and participate in any regional radiological planning required by 40 CFR 300, *National Oil and Hazardous Substance Pollution Contingency Plan*.
- h. Require covered contractors to comply with the applicable provisions of DOE Order 5530.3, *Radiological Assistance Program*.
- i. 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*.
- j. Review and approve all regional RAP procedures.
- k. Prepare a separate report, with supporting documentation for each response which involves dispatching a RAP Team. One copy of this report shall be maintained on file and one copy shall be provided to DOE-HQ within 5 workdays after the response. Copies of the report shall also be sent to the other field offices within the region for informational purposes.
- l. Receive and review monthly status, annual summary, and response reports from each program element.

2.2 Local Response Coordinator (LRC) Responsibilities

- a. The Rocky Flats Field Office and the Grand Junction Projects Office in DOE Region 6 shall assign a Local Response Coordinator/Program Manager to direct and coordinate local RAP assets and response efforts as directed by the Regional Response Coordinator. For the INEL the Regional Response Coordinator will also serve as the Local Response Coordinator.
- b. Expedite dispatch of their respective RAP Teams, upon notification by the Regional Response Coordinator or DOE Region 6 RAP Coordinator, to the scene of any incident for which there is a Federal, state, local, or tribal official's 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 Regional Coordinating Office, that could participate in the response to radiological incidents.

- d. Develop, review, and approve local RAP Team procedures.
- e. Prepare local monthly reports and annual summaries using the standardized report form with the format shown below and detailed in Appendix 3. Response reports shall include a time line, team composition, incident location, and detailed survey and analytical results. The response report shall also include a copy of the Incident Report Information Form. Transmit the reports to the Regional Coordinating Office and DOE Region 6 RAP Coordinator.

DOE REGION 6 RAP MONTHLY/ANNUAL REPORT
FOR Field/Projects Office-MONTH/YEAR

ADMINISTRATIVE/GENERAL INFORMATION

TRAINING/DRILL AND EXERCISES

PROBLEMS/ISSUES

RESPONSES

Approved _____
LRC/Program Manager or Region 6 Coordinator

2.3 EG&G Idaho

EG&G Idaho shall provide a Regional Radiological Assistance Program Manager and sufficient staff to coordinate regional RAP functions. EG&G Idaho has been assigned the duties of Regional Program Coordinator for the Radiological Assistance Program in DOE Region 6.

2.3.1 EG&G Radiological Assistance Program Manager Responsibilities

The EG&G RAP Program Manager shall:

- a. Provide program management and guidance to the RAP Coordinator 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 RAP budget for DOE Region 6.
- d. Review and approve local RAP Team procedures.

2.3.2 EG&G Radiological Assistance Program Coordinator Responsibilities

The EG&G RAP Coordinator shall:

- a. Assist the EG&G Program Manager in managing the Radiological Assistance Program in DOE Region 6.
- b. Prepare and maintain regional radiological assistance plans.
- c. Prepare and maintain all regional procedures relating to the DOE Region 6 RAP as well as those pertaining to the INEL RAP Team.
- d. Establish procedures to determine, quickly, whether the request for assistance involves or could involve a DOE facility or shipment and recommend to the Regional Response Coordinator to notify Headquarters Emergency Operations Center (EOC) immediately if this is the case.
- e. Assemble and deploy a RAP Team to radiological incidents as directed by the Regional Response Coordinator.
- f. Instruct Regional Response Coordinators, RAP Team Captains and Leaders that there will be a DOE Lead Federal Agency Official (LFAO) for incidents involving DOE material and that if the RAP Team Captain or Team Leader (Section 6.6) is the first DOE official on the scene, he or she must temporarily assume the role of DOE LFAO.
- g. Prepare and submit to the DOE-ID RAP Program Manager, monthly and annual reports on RAP activities. Prepare and submit summaries as applicable for all RAP Team response(s) or deployment(s).

Each monthly report shall be submitted on the standardized report form shown in Appendix 3 and the annual report shall be presented in the following format:

RRC Name

U.S. Department of Energy, Field Office Name

Address As Applicable

DOE REGION 6 RAP ANNUAL REPORT - FISCAL YEAR

ADMINISTRATIVE

TRAINING/DRILL AND EXERCISES

RESPONSES

BUDGET STATUS

- h. Provide with the concurrence of the DOE-ID 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.
- i. Shall include in each procurement request package for each procurement requiring the application of DOE Order 5530.3, the following:
 - Identification of the applicable DOE Order;
 - Identification of the specific requirements with which a contractor or other awardee is to comply, or, if this is not practicable, identification of the specific paragraphs or other portions of the applicable DOE Order which a contractor or other awardee is to comply, and;
 - Requirements for the flowdown of provisions of the applicable DOE Order to any subcontract or subaward.
- j. Maintain current rosters of trained DOE Region 6 RAP members, RAP Coordinators, and other non-DOE emergency services personnel within the region.

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 nonweapon-related incidents should be made through the Albuquerque Field Office (AL-JNACC), unless an immediate local response by the military is necessary to deal with the incident as soon as possible.

DOE-JNACC at Sandia Base in Albuquerque, New Mexico must be informed, through the DOE Albuquerque Field Office, when the radiological assistance capability of a Regional Coordinating Office is inoperative. However, there three (3) RAP Teams within DOE Region 6 and at least one team will always be operational.

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.

The DOE and DOD have agreed on the following general division 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.
- 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).

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, e.g., Accident Response Group (ARG). In this regard, the RAP program keeps special staff and equipment assigned only to this program area.

DOE Region 6 RAP Teams consist of DOE and contractor personnel who represent the fields of health physics, public affairs, and emergency management. DOE Region 6 facilities maintain and store equipment and supplies dedicated to the Radiological Assistance Program. 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 suburban and an enclosed trailer, located at Grand Junction, is available. It 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 dedicated trailer located at Rocky Flats containing equipment similar to that mentioned in the previous paragraphs is available to respond to a radiological incident in the off-site environment. There are no dedicated vehicles, at this time, to pull the trailer. However, a vehicle capable of towing the trailer can be requisitioned from the Rocky Flats motor pool.

The selection and composition of a RAP team is dependent upon the incident location, type and severity of the incident, and available material and manpower resources.

4.0 OTHER DOE ASSETS AVAILABLE FOR THE RAP

The Regional Coordinating Office can, during a prolonged emergency, request the 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 capabilities and are prepared to locate special equipment, arrange transportation and logistically support the equipment if the risk to the public and/or national priorities so dictate.

Descriptions of major specialized radiological response equipment are listed here and discussed in the remainder of Section 4.

- a. Aerial Measurement Survey (AMS) System
- b. HOTSPOT Mobile Laboratory
- c. Atmospheric Release Advisory Capability (ARAC)
- d. Federal Radiological Monitoring and Assessment Center (FRMAC)

4.1 Aerial Measurement Survey (AMS) System - DOE-NV

A Nevada Field Office 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.

4.2 HOTSPOT Mobile Laboratory - LLNL

The DOE, Albuquerque Field Office Advanced Response Group component at Lawrence Livermore National Laboratories (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. 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.

4.3 Atmospheric Release Advisory Capability (ARAC) - LLNL

Another major DOE resource maintained at LLNL is ARAC, the Atmospheric Release Advisory Capability. 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. 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. This capability was used to predict plume direction and consequences (dose) in the Three Mile Island reactor incident as a regional application.

4.4 Federal Radiological Monitoring and Assessment Center (FRMAC)

The DOE Nevada Field Office 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-owned 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.

5.0 REQUESTING RADIOLOGICAL ASSISTANCE

Requests for the DOE Region 6 Radiological Assistance Program are generally received through the RCO at DOE-ID's Warning Communications Center (WCC). However, calls may be directed to the Emergency Operations Centers at either Rocky Flats or Grand Junction. As many essential details as possible are obtained regarding the incident, the caller and how he/she may be contacted. DOE Region 6 24-hour emergency telephone numbers are:

DOE-ID WCC (208) 526-1515

ROCKY FLATS PLANT (303) 966-2914

GRAND JUNCTION PROJECTS OFFICE (303) 248-6070.

Should a request for assistance be initiated through any emergency control center other than the WCC, the responding emergency control center shall notify the WCC of the request within 15 minutes of the initial request.

6.0 RADIOLOGICAL EMERGENCY RESPONSE PLAN ACTIVATION

6.1 Communications

DOE-ID and other DOE Region 6 DOE facilities maintain 24-hour emergency telephone numbers as mentioned in Section 5.0 which are reserved for incoming radiological incident reports, requests for assistance, and other related communications. Collect calls are accepted on these lines and all calls are automatically recorded.

DOE Region 6 RAP area offices have established 24-hour communication channels for the handling of communications relating to radiological incidents. Each DOE Region 6 RAP element maintains properly trained and equipped radiological assistance teams on an immediate operational basis and responds to requests for radiological assistance from DOE field offices in whose region their facility is located. Area offices are required to advise a DOE Region 6 Regional Response Coordinator or DOE Region 6 RAP Coordinator of all incidents occurring at their facility and of any radiological assistance rendered off site.

6.2 Notification

A DOE Region 6 Regional Response Coordinator or RAP Coordinator shall obtain all pertinent information about the incident, provide immediate guidance and advice, and initiate appropriate radiological assistance. The individual who receives the notification shall complete the Accident/Incident Report Form (Appendix 3) at the location where the call was received. As a minimum, the following information shall 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 RAP Coordinator shall confer with the Regional Response Coordinator and the DOE-ID Management Duty Officer 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).

6.3 Notification of DOE Headquarters

The DOE Headquarters Emergency Operations Center shall be notified by either the DOE-ID Management Duty Officer or the Regional Response Coordinator:

- 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 material are involved or thought to be involved in an incident;
- When the responding Regional Coordinating Office requests assistance from other Regional Coordinating Offices, DOE Nevada Field Office, or regional offices of other Federal agencies, or;
- When the incident may be subject to significant attention from the media.

6.4 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 shall be notified.

In unusual circumstances, another Regional Coordinating Office (RCO) may be requested by DOE-ID to respond to a radiological incident within DOE Region 6, when the incident site is closer to its resources.

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

The designated DOE Region 6 RAP Coordinator shall continue to coordinate and supplement the incident response with the concurrence of the Regional Response Coordinator until such time as the incident is considered closed.

6.4.1 ID Emergency Operations Center

Upon request and recommendation of a Regional Response Coordinator and a RAP Coordinator, the DOE-ID Management Duty Officer will direct the appropriate DOE Region 6 response to a radiological incident. During non-duty hours the DOE-ID Duty Officer shall determine if the situation warrants the activation of the INEL Emergency Operations Center (EOC). The Duty Officer shall provide an oversight function to the Emergency Director and act for the DOE-ID Manager with full decision making authority in handling the incident. The DOE-ID Management Duty Officer with concurrence and recommendation from the Regional Response Coordinator and RAP Coordinator shall determine the need for a RAP response. However, the DOE-ID Management Duty Officer shall 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 radiological material.
- Request from state, local, tribal, or private individual for radiological assistance.
- As required by an existing Memorandum Of Understanding (MOU) or other formal agreement.

The DOE-ID Management Duty Officer or Emergency Director shall evaluate the available information and with advice from the Regional Response Coordinator, the Region 6 RAP Coordinator, and the applicable Local Response Coordinator 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 Duty Officer or Emergency Director (if the EOC has been activated) shall direct the RAP Manager or RAP Coordinator to begin to assemble a Radiological Assistance Program Team from the most appropriate DOE Region 6 facility. While the team is being assembled, additional information on the incident shall be gathered prior to team dispatch.

A report or request for assistance which concerns a radiological incident that has occurred in another DOE region should be immediately reported to the appropriate responsible Regional Coordinating Office. The responsible regional office should be requested to assume responsibility for handling the incident.

6.5 INEL Emergency Operations Center (EOC)

The DOE-ID Management Duty Officer may decide to activate the INEL Emergency Operations Center (EOC). If so, he will have the EOC Manager take action to have the appropriate support personnel take positions in the EOC. If the EOC is activated, the response is directed by a contractor senior manager 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 Emergency Director, with the help of the support personnel shall 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.

6.5.1 Rocky Flats Emergency Operations Center (EOC)

The Rocky Flats EOC shall be activated in support of a DOE Region 6, Rocky Flats RAP Team response. The EOC may be activated upon the request of the Regional Coordinating Office if deemed appropriate, even if the Rocky Flats RAP isn't mobilized. The level of staffing shall be on a case by case basis depending on the incident scenario.

The Rocky Flats LRC shall coordinate his/her decisions and actions through the DOE-ID EOC. The DOE-ID EOC shall have the final decision on RAP Team activities through agreement of the DOE-ID Management Duty Officer, the Regional Response Coordinator, and the DOE Region 6 RAP Coordinator and concurrence of the Rocky Flats LRC and RAP Coordinator.

6.5.2 Grand Junction Emergency Operations Center (EOC)

The Grand Junction EOC shall be activated in support of a DOE Region 6, Grand Junction RAP Team response. The EOC may be activated upon the request of the Regional Coordinating Office if deemed appropriate, even if the Grand Junction RAP isn't mobilized. The level of staffing shall be on a case by case basis depending on the incident scenario.

The Grand Junction LRC shall coordinate his/her decisions and actions through the DOE-ID EOC. The DOE-ID EOC shall have the final decision on RAP Team activities through agreement of the DOE-ID Management Duty Officer, the Regional Response Coordinator, and the DOE Region 6 RAP Coordinator and concurrence of the Grand Junction LRC and RAP Coordinator.

6.6 DOE Region 6 Radiological Assistance Program Teams

The DOE Region 6 Radiological Assistance Program Teams consist of approximately 90 DOE and contractor personnel representing the fields of health physics, public information, and communications. These disciplines may be supplemented with additional resources from the responding facility as required.

The selection and composition of the RAP Team dispatched by the Regional Response Coordinator is dependent upon a number of factors such as location, type, and severity of the incident; relative distances of the various responding radiological assistance teams; their respective capabilities; material and manpower resources, etc.

RAP Teams are deployed in support of the state authorities and are not intended to direct actions at the scene or to assume command and control. The DOE RAP Teams will not represent the state to public media unless requested to assist in this manner from the accident site on-scene commander. The Regional Response Coordinator, DOE-ID Management Duty Officer, or LRC should be notified prior to the team's Public Affairs Officer taking such actions.

6.6.1 DOE Region 6 RAP Team Captain Responsibilities

Any DOE Region 6 RAP Team deployed to respond to an incident shall be headed by a qualified DOE team member, who will act as RAP Team Captain. In the absence of a qualified DOE official at the scene, the Team Leader shall act as the Team Captain until relieved. The Team Captain shall report to either the LFAO or the ESO depending on the location of the incident. However, the Team Captain could serve as the LFAO or the ESO until relieved by competent authority.

Each Team Captain, RAP Coordinator, and Team Leader shall:

- a. Attend required training including Team Captain Training, media training, Authorized Derivative Classifier training, and Incident Command System training.

- b. Participate as required in all drill, exercises, and responses.
- c. Represent the DOE and have command and control of the RAP Team at an incident location (unless the LFAO or ESO is present).
- d. Interface with the Incident Commander, either directly or through a command staff function.
- e. Provide periodic information on incident status from the incident location to the Regional Response Coordinator, either directly or through a local EOC.

6.6.2 DOE Region 6 Team Leader Responsibilities

The RAP Team Leader has the following specific areas of responsibility:

- a. Support the Lead Federal Agency (LFA) and/or DOE officials in non-weapons incidents;
- b. Support the Incident Commander in the case of a RAP response request;
- c. Act as the field crisis manager and observer for the DOE Region 6 RAP and provide periodic reports to the Regional Response Coordinator or Local Response Coordinator as soon as practicable;
- d. Evaluate the radiological health hazard and delineate the area of contamination by radiological monitoring, if necessary;
- e. Minimize personnel exposure to radiation and radioactive materials and prevent the spread of contamination;
- f. Provide assistance in securing the aid of other Federal agencies, if needed;
- g. Telephone, as soon as possible after his arrival at the incident scene, an initial verbal report to the Regional Response Coordinator or the Local Response Coordinator. The report will outline the situation at the incident site. Subsequent reports will be made as significant events occur or periodically as requested by DOE-ID;
- h. Request any additional assistance required and provide a telephone number for future contact, and;

- i. Ensure that a complete log of events at the incident scene, detailing the prevailing and potential hazards and decontamination efforts as appropriate is kept by the responding RAP Team members; and attempt to obtain copies of any local news coverage, photographs taken and any legal documents or certificates issued.
- j. Ensure that the RAP Team, in accordance with DOE Order 5635.4 and DOE Order 5650.2B, protects classified information and UNCI from unauthorized disclosure and takes any necessary steps to secure classified materials and/or special nuclear materials until the appropriate groups arrive to take custody of the materials.

6.6.3 DOE Region 6 RAP Team Member Responsibilities

Each DOE Region 6 RAP Team member shall:

- a. Attend all required training to maintain proficiency with the RAP equipment and be kept informed of administrative changes within the program.
- b. Maintain current, standardized training levels specified by their respective contractors relating to Radiation Worker, Respirator Qualification, Hazardous Material Training, Radiological Control Technician Training, Media Training, etc.
- c. Assemble and deploy to a radiological incident as directed by the RAP Coordinator.
- d. Provide the RAP Coordinator with a critique summary of activities at the end of each response.
- e. Be directed at the scene of a radiological incident by the RAP Team Leader.
- f. Shall refer any media questions to the Team's Public Information Officer.

6.6.4 Dispatch of a DOE Region 6 Radiological Assistance Team

DOE Region 6 RAP Teams shall be dispatched from the Regional Coordinating Office in Idaho Falls.

6.6.4.1 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 200 miles of the respective field offices, RAP Teams will normally use a radio-equipped government vehicle.

B. Aircraft

For radiological assistance incidents occurring greater than 200 miles from the field offices, air transportation will be used (weather permitting). The code name "FLYNET" should be included in the flight plans. Federal Aviation Administration (FAA) "FLYNET" instructions to Air Traffic personnel state that it is in the public interest for these personnel to reach accident areas as soon as possible.

a. Charter Aircraft

INEL could use charter aircraft services at Idaho Falls, Pocatello, and Salt Lake City to dispatch an INEL RAP Team anywhere on short notice. Charter aircraft may be dispatched from either the Idaho Falls Municipal Airport or the airfield at Atomic City (adjacent to the INEL).

RFO could use charter aircraft from a number of different local airfields within the Greater Denver area or possibly obtain aircraft from one of the local U.S. Air Force installations for RAP Team support.

GJPO could use charter aircraft services at the local airport for RAP Team support.

b. Commercial Aircraft

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

6.6.4.2 Funding

DOE-HQ has provided funding to DOE-ID for the DOE Region 6 Radiological Assistance Program. These funds will be used to maintain and operate the RAP.

Travel funds and arrangements may be handled with DOE or company credit cards, or if time allows, through the issuance of travel funds and commercial travel arrangements by standard fiscal methods.

6.7 Field Team Operations

When the initial DOE Region 6 response team members have been designated, all members shall be briefed by the RAP Team Captain on all the available facts of the incident, including location, assembly point and time, mode of transportation and any special equipment considered necessary. This briefing can be done via radio if deployment is immediate. Team members shall also be advised of any special transportation arrangements from their homes to assembly points. These arrangements may be by motor vehicle or by aircraft as mentioned above, or DOE Air Mobility Command (AMC) flights, if required. The leader of the Region 6 response team shall request through EOC logistics support personnel, that applicable travel orders, airline tickets, government transportation requests, immunization records, cash, and any technical manuals or documents necessary are provided for the group.

Upon arrival at the incident scene, the RAP Team Captain and Leader shall report to the senior DOE official, for the case of a facility incident, or the Incident Commander, and brief that individual or his designated representative on the capabilities and mission of a DOE Region 6 RAP Team. The RAP Team shall also be briefed by the senior official on the situation existing at the incident scene.

The DOE Region 6 RAP Team, while at the scene, shall be subject to the control established by the individual in charge (Incident Commander) and will perform its mission under the direction of the RAP Team Captain and Team Leader. Either the Team Captain or the Team Leader, through an on-scene communicator appointed from within the responding team, will keep the DOE-ID EOC Emergency Director or DOE-ID Management Duty Officer informed as to his/her actions, observations and requirements.

While at the scene a team member shall be designated to record and document team activities and significant events using a tape recorder and a camera.

NOTE: When responding to a WIPP/TRUPACT-II incident, the RAP Team shall use Radiological Assistance Team procedures published by DOE-AL relating specifically to TRUPACT-II Transportation Incidents.

Such information shall be compiled in support of a formal summary report prepared by the responding RAP organization. The written report will cover the technical aspects of the operation and be forwarded to the DOE Region 6 Radiological Assistance Program Manager within thirty (30) days following the incident.

The final written report will be forwarded to DOE Headquarters by the DOE Region 6 Radiological Assistance Program office.

6.8 Reporting Requirements

A RAP response is not considered a "Facility" nor is the RAP Team Captain or Regional Response Coordinator considered a "DOE Facility Representative" or a "Facility Manager" as defined in paragraph 5, Definitions, DOE Order 5000.3A, *Occurrence Reporting and Processing of Operations Information*. During a response, RAP Team Captains and/or Regional Response Coordinators meet the exclusion reporting requirements as stated in DOE Order 5000.3A, paragraph 3d, Scope, and therefore need not report.

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 5000.3A, paragraph 8, Implementation Requirements.

7.0 PUBLIC INFORMATION

A Public Affairs Officer may accompany a DOE Region 6 Radiological Assistance Program Team to the incident scene, to function as spokesperson. In the absence of this individual, the Team Captain shall function in this capacity. It is the policy of DOE that unclassified information about incidents be given to the public as soon as possible to avert fear or concern and to encourage public understanding.

At the 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 through local authority.

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

7.1 DOE Region 6 Public Affairs Officer Responsibilities

Each DOE Region 6 Radiological Assistance Program Public Affairs Officer shall:

- a. Represent the DOE and the team to the media.
- b. Provide media briefings as required by either the Incident Commander and the Team Captain.
- c. Shall be the point of contact for all public and media inquiries directed to team members.
- d. Shall not conduct media briefings without the concurrence of the Team Captain and the Regional Response Coordinator.

8.0 RADIOLOGICAL ASSISTANCE ABROAD

Requests for personnel for radiological assistance assignments outside the continental United States will originate from DOE Headquarters and shall be coordinated by the DOE Region 6 Regional Response Coordinator and DOE Region 6 RAP Coordinator.

9.0 TRAINING/DRILLS AND EXERCISES

Specific levels of training shall be required for assignment to a RAP Team and additional training shall be required to staff specific positions. RAP personnel shall not be deployed without the required training unless authorized by the Regional Response Coordinator with the concurrence of the Region 6 RAP coordinator and the Local Response Coordinator. Regional training requirements shall be defined in a regional procedure and presented in a matrix format.

Each DOE Region 6 RAP element shall conduct sufficient local drills and training sessions to develop and maintain each elements' response capability. Each RAP element shall, at least annually, participate in one major exercise (i.e., TRANSAX, WIPPTREX, etc.) to demonstrate their capabilities.

APPENDIX 1
DOE REGION 6
EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
Idaho National Engineering Laboratory	(208) 526-1515	
(INEL Warning Communications Center) 24-Hour Number		
 <u>Regional Response Coordinators</u>		
Region 6 RAP Program Manager & RRC		
Steven A. Morreale, DOE-ID	(208) 526-0199	(208) 524-2522
	Pager (208) 526-4444:5905	
	Fax (208) 526-0553	
 <u>Alternates</u>		
Dennis W. Green, DOE-ID	(208) 526-1367	(208) 237-5709
	Pager (208) 526-4444:5208	
	Fax (208) 526-0553	
Clayton Ogilvie, DOE-ID	(208) 526-5190	(208) 522-3137
	Pager (208) 526-4444:5776	
	Fax (208) 526-0553	
 <u>Region 6/INEL RAP</u>		
EG&G Idaho RAP Program Manager		
Henry K. Peterson	(208) 525-5694	(208) 523-9358
	Pager (208) 526-4444:5270	
	Fax (208) 525-5695	
Region 6/INEL RAP Coordinator		
Frank M. Jakubowski	(208) 526-2550	(208) 524-3154
	Pager (208) 526-4444:5496	
	Fax (208) 526-5474	
 <u>Alternate Contacts</u>		
Norman G. Reece, EG&G Idaho	(208) 526-4468	(208) 237-4785
	Pager (208) 526-4444:5664	
	Fax (208) 526-5474	
Karen S. Langley, EG&G Idaho	(208) 526-4141	(208) 237-2355
	Pager (208) 526-4444:5663	
	Fax (208) 526-4910	
Paul E. Ruhter, EG&G Idaho	(208) 526-1973	(208) 522-1704
	Pager (208) 526-4444:6165	
	Fax (208) 526-4759	
Wilbur L. Nees, EG&G Idaho	(208) 526-5403	(208) 522-8334
	Pager (208) 526-4444:5993	
	Fax (208) 525-5695	

APPENDIX 1
DOE REGION 6
EMERGENCY NUMBERS

DOE REGION 6

	<u>Business Number</u>	<u>Off-Duty Number</u>
Rocky Flats Plant		
24-Hour Number	(303) 966-2914	
 <u>DOE-Rocky Flats Field Office</u>		
LRC/Program Manager		
Cheryl Stovall, Chief	(303) 966-3138	(303) 469-7078
Emergency Preparedness Branch	Pager (303) 966-4000:7130 Fax (303) 966-4629	
 Alternate Contact		
Bert Crist	(303) 966-7793	(303) 466-8629
Emergency Preparedness Branch	Pager (303) 966-4000:0710	
 <u>EG&G Rocky Flats</u>		
RFP RAP Coordinator/Team Captain		
Thomas Wesley	(303) 966-8456 Pager (303) 966-4000:3304 Fax (303) 966-8457	(303) 423-1873
 Alternate Contacts		
Jim Kamerman	(303) 966-8186 Pager (303) 966-4000:4414 Fax (303) 966-4107	(303) 438-6793
Sam Stuckey	(303) 966-8833 Pager (303) 966-4000:5885 Fax (303) 966-8917	(303) 438-0851
Cliff DelForge	(303) 966-6326	

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	(303) 248-6070	
24-Hour Fax	(303) 248-6040	
<u>DOE-Grand Junction Projects Office</u>		
LRC/Program Manager		
Bennett Young	(303) 248-6010	(303) 245-7232
Alternate Contact		
Jon Sink	(303) 248-6016	(303) 242-6364
<u>Chem-Nuclear Geotech</u>		
GJPO RAP Coordinator		
Chris Brownlee	(303) 248-6707	(303) 245-9879
Alternate RAP Coordinators		
Michael Sandvig	(303) 248-6712	(303) 241-2483
Richard Millward	(303) 248-6022	(303) 241-4072
USDOE Headquarters		
24-Hour Number	(202) 586-8500	

**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
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
DEPARTMENT OF TRANSPORTATION (Federal Highway Administration)	
Region 8 (Lakewood, CO)	(303) 969-6722
Region 10 (Portland, OR)	(503) 326-2053
DOE-JNACC (Albuquerque, NM)	(505) 845-4667
DOD-JNACC (Alexandria, VA)	(703) 325-2102

APPENDIX 1
DOE REGION 6
EMERGENCY NUMBERS

DOE REGION 6

Business Number

Other Emergency Response Organizations

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

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

COLORADO

Colorado Department of Health
4210 East 11th Avenue
Denver, CO 80220
(24-Hour Reporting Number)

Business Number

(303) 331-8480
(303) 377-6326

Off-Duty Number

Office of Emergency Management
State 24-Hour Emergency Number

(303) 279-8855

Radiation and Hazardous Waste
Control Division
Robert M. Quillin
Warren Jacobi
Dick Gamewell

(303) 331-8480
(303) 331-8480
(303) 331-8480
(303) 331-8480

(303) 423-8875
(303) 320-6410

Colorado State Police (24-Hour Number)

(303) 239-4501

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
(406) 444-3671
(406) 444-5266

(406) 442-7491
(406) 933-5750

DOE Region 6 RAP Plan

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

UTAH

	<u>Business Number</u>	<u>Off-Duty Number</u>
Utah State Department of Environmental Quality Division of Radiation Control 288 North 1460 West Salt Lake City, UT 84114-4850		
Bureau of Radiation Control		
Larry E. Anderson	(801) 538-6734	(801) 538-6333
Dane Finerfrock	(801) 538-6734	(801) 756-8023
Blaine Howard	(801) 538-6734	(801) 571-2245
Craig Jones	(801) 538-6734	(801) 967-1274
Bryon Hardy	(801) 538-6734	(801) 968-8149
If no contact with above personnel:	(801) 965-4509	
	(801) 783-2287	
Nelson Ames (Mobile Phone and Pager)	(801) 534-2138	
	(801) 534-2243	
Utah Department of Public Safety Division of Comprehensive Emergency Management 1543 Sunnyside Avenue Salt Lake City, UT 84108		
	(801) 533-5271	
	(801) 965-4505	
Division of Comprehensive Emergency Management		
Lorraine Frank	(801) 533-5271	(801) 484-4542
Ralph Findlay	(801) 533-5271	(801) 272-1797
Loren Larsen	(801) 533-5271	(801) 359-7350
Jim Brown	(801) 533-5271	(801) 544-0056

APPENDIX 2

STATE RADIOLOGICAL HEALTH AGENCIES IN DOE REGION 6

WYOMING

	<u>Business Number</u>	<u>Off-Duty Number</u>
Wyoming Department of Health and Medical Services		
State Office Building		
Cheyenne, WY 82001	(307) 777-6015	
Janet Hough (Health Department)	(307) 777-6015	(307) 778-7429
Mark Johnson	(307) 777-7951	
Joe Daily (WEMA)	(307) 777-7566	
Chuck Fraley (WEMA)	(307) 777-7197	(307) 632-5929
Hub Hanlon (WEMA)	(307) 777-7197	(307) 632-8827
Chuck Raffelson (DEQ)	(307) 777-7347	(307) 634-3670
Wyoming Highway Patrol	(307) 777-4321	
Within Wyoming	(800) 442-9090	
Cellular Only	#HELP	

APPENDIX 3
REGION 6 REPORT FORMATS

DOE Region 6
Radiological Assistance Program
Incident Report Information Form

This form will be completed by the receiver of the call, WCC, RRC, LRC, DOE-RFO, DOE-GJPO, RAP Coordinator.

TIME OF CALL: _____

DATE: _____

RECEIVER OF CALL: _____

TITLE: _____

ORGANIZATION: _____

CALLER: _____

TITLE: _____

LOCATION OF CALLER: _____

CONTACT PHONE NUMBER: _____

INFORMATION RECEIVED

1. TYPE OF INCIDENT REPORTED
() A. TRU WASTE TRANSPORT	() D. RESEARCH FACILITY
() B. RADIOACTIVE MATERIALS TRANSPORT	() E. NUCLEAR REACTOR
() C. NUCLEAR WEAPON ACCIDENT	() F. OTHER

2. INCIDENT DATE: _____ INCIDENT TIME: _____

3. LOCATION OF INCIDENT: _____

4. BRIEF DETAILS OF INCIDENT: _____

5. IS FIRE INVOLVED: _____

6. OTHER HAZARDOUS MATERIALS: _____

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

8. KNOWN RADIONUCLIDES: _____

9. WEATHER CONDITIONS: _____

WIND SPEED: _____ MPH WIND DIRECTION: _____ DEG.

10. CASUALTIES INVOLVED: (include number in brackets)
() A. MINOR INJURIES	() D. DEATHS
() B. MAJOR INJURIES	() E. MISSING PERSONS
() C. CONTAMINATIONS	() F. NONE

COMMENTS: _____

11. RESPONDERS CURRENTLY AT THE SCENE: (check if appropriate)
() A. STATE POLICE	() E. CITY POLICE
() B. COUNTY SHERIFF	() F. AMBULANCE/RESCUE
() C. FIRE DEPARTMENT	() G. TRAINED CARRIER
() D. RADIATION CONTROL PERSONNEL	() H. OTHER _____

12. INCIDENT CLASSIFICATION:
INCIDENT COMMANDER CLASSIFICATION: _____

DOE CLASSIFICATION: (Check appropriate category)
Alert _____ Site Area Emergency _____ General Emergency _____

13. HAS DEPT. OF TRANSPORTATION BEEN NOTIFIED() YES () NO

14. STATE, TRIBAL, OR OTHER FEDERAL AGENCIES NOTIFIED: _____

15. NEWS MEDIA INCIDENT REPORTS - ARE THERE FALSE OR EXAGGERATED REPORTS?: _____

ACTIONS TAKEN BY RECEIVER OF CALL

STATE, TRIBAL, AND/OR FEDERAL AGENCIES NOTIFIED AFTER CALL: _____

RADIOLOGICAL ASSISTANCE PROGRAM TEAM RESPONSE: _____

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

RADIOLOGICAL ASSISTANCE PROGRAM DOE REGION 6 MONTHLY/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. Region 6 Areas of Responsibility
4. Locations of Radiological Assistance Team (RATS) Department of Energy
5. TRU Shipments, Potential Corridor States
6. Federal Emergency Management Agency, Regional Boundaries
7. Administrative Organization of the National Weather Service
8. Nuclear Regulatory Commission, Regional Office Locations
9. U.S. Environmental Protection Agency, Major Installations
10. 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

Alaska	Hawaii	Canal Zone	Puerto Rico	Virgin Is.
in Region 8	in Region 7	in Region 3	in Region 2	in Region 2

(Region #) Regional Coordinating Office	(1) Brookhaven Area Office	(2) Oak Ridge Field Office	(3) Savannah River Fld. Office	(4) Albuquerque Field Office	(5) Chicago Field Office	(6) Idaho Field Office	(7) San Francisco Field Office	(8) Richland Field Office
Post Office Address	Upton, L.I. New York 11973	P.O. Box 2001 Oak Ridge, TN 37831	P.O. Box A Aiken, S.C. 29808	P.O. Box 5400 Albuquerque NM 87115	9800 S. Cass Ave Argonne, IL 60439	785 DOE Place Idaho Falls, ID 83402	1333 Broadway Oakland, CA 94612	825 Jadwin Ave Richland, WA 99352
Telephone for Assistance	(516) 282- 2200	(615) 576- 1005	(803) 725- 3333	(505) 845- 4667	Duty Hrs: (708) 252- 4800 Off Hr. (708) 252- 5731	(208) 526- 1515	(510) 273- 4237	(509) 373- 3800

Region 6 RAP Elements Geographic Areas of Responsibility

Locations of Radiological Assistance Team (RATS) Department of Energy

- Radiological Assistance Team (RATS)
- Field Offices

TRU Shipments Potential Corridor States

U.S. Interstate
Federal Route

Federal Emergency Management Agency Regional Boundaries

★ Regional Office

K92 0162

Administrative Organization of the National Weather Service

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

⑤ National Weather Service
Alaska Region
701 C Street, Box 23
Anchorage, AK 99513

③ National Weather Service
Central Region
601 East 12th Street, Room 1836
Kansas City, MO 64106

① National Weather Service
Eastern Region
585 Steward Avenue
Garden City, NY 11530

② National Weather Service
Southern Region
819 Taylor Street, Room 10E09
Fort Worth, TX 76102

⑥ National Weather Service
Pacific Region
Federal Building
Room 4110
P.O. Box 50027
Honolulu, HI 96850 K92 0161

④ National Weather Service
Western Region
Federal Building, Box 11188
Salt Lake City, UT 84147

② National Weather Service
Southern Region
819 Taylor Street, Room 10E09
Fort Worth, TX 76102

★ NWS Headquarters

● Regional Headquarters

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

**DATE
FILMED**

9/15/93

END