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	95-DMR-000726		06/09/95
•3-S69-ER-OPS-EMRG 1.1	Radiation Surveys	1	08/15/95
	•95-DMR-000732		08/15/95
	•EMRG-1.2 Has been incorporated into EMRG-1.1		
EMRG 1.3	Posting of Radiation Protection Requirements	1	06/09/95
•3-S70-ER-OPS-EMRG 2.0	Personnel Exposure and Contamination	0	08/15/95
	•95-DMR-000733		08/15/95
	•EMRG-2.1, 2.2, and 2.3 Have been incorporated into EMRG-2.0		
3-P11-ER-OPS- EMRG-3.1	Performance of Surface Contamination Surveys	1	05/26/95
3-B96-ER-OPS-EMRG-03.02	Survey Requirements for Conditional and Unrestricted Use	1	05/31/95
EMRG 3.5	Handling of Contaminated Dosimetry/Security Badges	0	12/06/91
EMRG 6.1	Performance Test and Operational Checks for Ludlum Model 12-A, Model 12, and Model 31 Survey Instruments	0	12/06/91
EMRG 6.3	Performance Checking and Operation of the Eberline SAC-4 Alpha-Scintillation Smear Counting Instrumentation	0	12/06/91
EMRG 6.4	Performance Testing and Operation of the Eberline BC-4 Beta Smear Counting Instrumentation	0	12/06/91

**ROCKY FLATS PLANT
EM RADIOLOGICAL GUIDELINES**

**Manual No.: 3-21000-OPS-EMRG
Procedure No.: Table of Contents, Rev 11
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Organization: Environmental Management**

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EMRG 6.5	Use of the Bicon Frisk-Tech with the A-100 and B-50 Detectors	0	12/06/91
EMRG 6.6	Use of the Bicon Fidler (Field Instrument for the Detection of Low-Energy Radiation)	0	12/06/91
	94-DMR-ERM-0012		01/25/94
4-P12-ER-OPS-EMRG-6.7	Performance Checking and Operation of Ludlum Smear Counting Instruments	0	04/07/95
3-S68-ER-OPS-EMRG 9.1	Respiratory Protection Requirements and Posting	1	06/09/95
EMRG 10.1	Radiological Deficiency Reporting Program	0	12/06/91

Rocky Flats Environmental Technology Site

3-S69-ER-OPS-EMRG-1.1

REVISION 1

RADIATION SURVEYS

APPROVED BY: *M.C. Broussard* M.C. BROUSSARD 16-28-95
Manager, Environmental Operations Management Print Name Date

Stacy Luker R. S. LUKER 16-28-95
Quality Assurance Manager, Data Management and Reporting Services Print Name Date

DOE RFFO/ER Submittal required: Yes No NA

Environmental Protection Agency Review required: Yes No NA

Responsible Organization: Environmental Restoration Program Division Effective Date: 8-15-95

CONCURRENCE BY THE FOLLOWING DISCIPLINES IS DOCUMENTED IN THE PROCEDURE HISTORY FILE:

Data Management and Reporting Services
Environmental Operations Management
Radiological Health and Engineering

USE CATEGORY 4

ORC review not required

The following have been incorporated in this revision:
95-DMR-000732

This procedure supersedes the following procedures:
3-21000-OPS-EMRG-1.1, Revision 0 and 3-21000-OPS-EMRG-1.2, Revision 0

Periodic review frequency: 3 years from the effective date

(06/30/95)

LIST OF EFFECTIVE PAGES

<u>Pages</u>	<u>Effective Date</u>	<u>Change Number</u>
1-5	08/15/95	95-DMR-000732

TOTAL NUMBER OF PAGES: 6

(06/30/95)

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(06/30/95)

1. PURPOSE

This procedure establishes the requirements for conducting radiological surveys in conjunction with the Environmental Restoration Program at the Rocky Flats Environmental Technology Site (Site).

This procedure implements requirements from the following:

- Rocky Flats Environmental Technology Site Radiological Control Manual
- Department of Energy Radiological Control Manual
- 10 CFR 835, Occupational Radiation Protection

2. SCOPE

This procedure applies to site employees and subcontractors involved in the radiological survey of areas where radiation or radioactive materials may be present at environmental restoration projects.

This procedure addresses compliance with Radiological Operations Instructions (ROI) by Environmental Restoration Program personnel and Environmental Restoration Program subcontractors.

This revision is a total rewrite and revision bars are omitted.

This revision supersedes 3-21000-OPS-EMRG-1.1, Revision 0 and 3-21000-OPS-EMRG-1.2 Revision 0.

3. OVERVIEW

This procedure provides specific instructions to be followed by subcontractors performing environmental restoration work at The site. To avoid duplication and ensure timely implementation of future changes to Department of Energy (DOE) directives, the subcontractor is directed to follow the instructions in the ROI and to substitute the subcontractor's personnel titles for those contained in the ROI. Subcontractors are authorized to use forms for recording data other than those forms contained in the ROI where the subcontractor can show that the information gathered is the information required by the ROI.

4. PREREQUISITE ACTIONS**Health and Safety Specialist (HSS)**

- [1] Observe the appropriate Limitations and Precautions, Prerequisites, and Instructions in 4-S04-ROI-01.01, Radiation Surveys and the Site Specific Health and Safety Plan.

If questions arise concerning technical instructions and guidelines in the ROI, resolve them with the Environmental Restoration Radiological Engineer (ERRE).

(06/30/95)

6. RECORDS

Management of all records is consistent with 1-77000-RM-001, Records Management Guidance for Records Sources.

Responsible Manager

- [1] Ensure that the original and one copy, as required, of the following quality assurance (QA) records are transmitted to the Environmental Restoration Program Division Project File Center in accordance with 2-G18-ER-ADM-17.01, Records Capture and Transmittal:

- Project files
- Surveys

Submission of record copies to the Environmental Restoration Program Division Project File Center satisfies Administrative Record requirements, as defined in 2-S65-ER-ADM-17.02, Administrative Record Document Identification and Transmittal.

There are no non-QA records generated by this procedure.

7. REFERENCES

2-S47-ER-ADM-05.14, Use of Field Logbooks and Forms

2-G18-ER-ADM-17.01, Records Capture and Transmittal

2-S65-ER-ADM-17.02, Administrative Record Document Identification and Transmittal

4-S04-ROI-01.01, Radiation Surveys

Rocky Flats Environmental Technology Site Radiological Control Manual

DOE Radiological Control Manual

10 CFR 835, Occupational Radiation Protection

LIST OF EFFECTIVE PAGES

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1. PURPOSE

This procedure establishes the requirements for conducting radiological surveys in conjunction with the Environmental Restoration Program at the Rocky Flats Environmental Technology Site (Site).

This procedure implements requirements from the following:

- Rocky Flats Environmental Technology Site Radiological Control Manual
- Department of Energy Radiological Control Manual
- 10 CFR 835, Occupational Radiation Protection

2. SCOPE

This procedure applies to site employees and subcontractors involved in the radiological survey of areas where radiation or radioactive materials may be present at environmental restoration projects.

This procedure addresses compliance with Radiological Operations Instructions (ROI) by Environmental Restoration Program personnel and Environmental Restoration Program subcontractors.

This revision is a total rewrite and revision bars are omitted.

This revision supersedes the following procedures:

- 3-21000-OPS-EMRG-2.1, Revision 0, Personnel Contamination Monitoring
- 3-21000-OPS-EMRG-2.2 Revision 0, Possible Inhalation Exposure
- 3-21000-OPS-EMRG-2.3 Revision 0, Wounds and Skin Contamination

3. OVERVIEW

This procedure provides specific instructions to be followed by subcontractors performing environmental restoration work at Site. To avoid duplication and ensure timely implementation of future changes to DOE directives, the subcontractor is directed to follow the instructions in the ROI and to substitute the subcontractor's personnel titles for those contained in the ROI. Subcontractors are authorized to use forms for recording data other than those forms contained in the ROI where the subcontractor can show that the information gathered is the information required by the ROI.

5. **INSTRUCTIONS**

HSS

- [1] **WHEN** environmental restoration activities are being conducted in or near areas controlled for radiological purposes,
THEN:
- [A] Ensure that all personnel working on the project are briefed on the contents of 4-I67-ROI-02.01, 4-S08-ROI-02.02, and 4-P96-ROI-02.03.
- [B] Monitor personnel in accordance with 4-I67-ROI-02.01.
- [2] **IF** there is reason to believe there is a potential intake of plutonium, americium, or uranium,
THEN take action in accordance with 4-S08-ROI-02.02.
- [2] **IF** monitoring reveals wound, skin, or hair contamination,
THEN take action as outlined in 4-P96-ROI-02.03
- [3] Make an entry in the field logbook in accordance with 2-S47-ER-ADM-05.14, Use of Field Logbooks and Forms, specifying that personnel were monitored and the results of the monitoring.

6. **RECORDS**

Management of all records is consistent with 1-77000-RM-001, Records Management Guidance for Records Sources.

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- 2-S47-ER-ADM-05.14, Use of Field Logbooks and Forms
- 2-S65-ER-ADM-17.02, Administrative Record Document Identification and Transmittal
- 2-G18-ER-ADM-17.01, Records Capture and Transmittal
- 4-I67-ROI-02.01, Personnel Contamination Monitoring
- 4-S08-ROI-02.02, Potential Intake Calculations
- 4-P96-ROI-02.03, Wounds and Skin/Hair Contamination
- Rocky Flats Environmental Technology Site Radiological Control Manual
- DOE Radiological Control Manual
- 10 CFR 835, Occupational Radiation Protection