

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-FO
Procedure No.: Table of Contents, Rev 5
Page: 1 of 3
Effective Date: 12/09/91
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

VOLUME I: FIELD OPERATIONS (FO)
VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
VOLUME IV: SURFACE WATER (SW)
VOLUME V: ECOLOGY (EE)
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FOR VOLUME I: FIELD OPERATIONS

This is a
CONTROLLED DOCUMENT
EG&G — ROCKY FLATS PLANT
ENVIRONMENTAL MANAGEMENT DEPARTMENT
This is a RED Stamp

<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.01	1.1	Air Monitoring and Dust Control	1	8/30/91
FO.02	1.2	Transmittal of Field QA Records	2	9/23/91
FO.03	1.3	General Equipment Decontamination	1	8/30/91
DCN 91.01		Replace triple rinse with double rinse	1	10/29/91
FO.04	1.4	Heavy Equipment Decontamination	1	8/30/91
FO.05	1.5	Handling of Purge and Development Water	1	8/30/91
DCN 91.01		Clarified protected area	1	10/28/91
FO.06	1.6	Handling of Personal Protective Equipment	1	8/30/91
DCN 91.01		Approved practices for disposal of surface water monitoring PPE.	1	9/19/91
DCN 91.02		Clarified protected area	1	10/28/91
DCN 91.04		Clarification of personal protective equipment surveyng	1	11/26/91
FO.07	1.7	Handling of Decontamination Water and Wash Water	1	8/30/91

ADMIN RECORD

REVIEWED FOR CLASSIFICATION/UCNT
By F. J. Curran (U-NU)
Date _____ A-SW-000199

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<u>New Proc. No.</u>	<u>Old Proc. No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
DCN 91.01		Grout mixing equipment wash water	1	10/22/91
DCN 91.02		Clarify work area characteristics	1	10/28/91
FO.08	1.8	Handling of Drilling Fluids and Cuttings	1	8/30/91
DCN 91.01		Delete locking requirement from drum sealing	1	8/30/91
DCN 91.02		Clarified protected area	1	10/28/91
DCN 91.03		Clarifying spraying requirements	1	10/29/91
FO.09	1.9	Handling of Residual Samples	1	8/30/91
FO.10	1.10	Receiving, Labeling, and Handling Environmental Materials Containers	1	8/30/91
DCN 91.01		Delete use of indelible markers	1	9/26/91
DCN 91.02		Clarify environmental liquids generated	1	10/28/91
FO.11	1.11	Field Communications	1	8/30/91
FO.12	1.12	Decontamination Facility Operations	1	8/30/91
FO.13	1.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	1	8/30/91
FO.14	1.14	Field Data Management	1	8/30/91
FO.15	1.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	1	8/30/91
FO.16	1.16	Field Radiological Measurements	1	8/30/91
FO.17	1.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added
FO.18	1.18	Environmental Sample Radioactivity Content Screening	1	8/30/91

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FO.19	1.19	Base Laboratory Work	1	8/30/91

ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

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DOCUMENT NUMBER SOP FO.6.5-21000-OPS

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TITLE Handling of Personal Protective Equipment		DATE November 24, 1991	This is a CONTROLLED DOCUMENT EG&G — ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT DEPARTMENT
DCN NUMBER 9-21000-OPS-FO.06, R1		Expires: February 27, 1992 3/8/92 <i>11/7/92</i>	
Limitations: <u>None</u>		Changes (Use DCN CONTINUATION SHEETS for additional space)	
Item Number	Page	Step or Paragraph	Changes
(1)	2	Section 3.0, Paragraph 3	In the third sentence starting with "PPE suspected of...", replace "...in a cargo container in the contractor's yard..." with "...in a cargo container in the contamination reduction zone..."
(2)	2	Section 3.0, Paragraph 3	Delete the last sentence starting with "A representative sample ..." and insert the following: "All PPE or other disposable materials will be characterized with field instruments prior to bagging. Under no circumstance will an unlabeled plastic bag be placed in either the <u>not</u> potentially contaminated or the potentially contaminated cargo containers."
(3)	4	Section 5.0, First Bullet	"(3 mil and 6 mil)" should be added to the end of the sentence.
(4)	5	Second Paragraph	After the third sentence ending in "...determine if the PPE is potentially contaminated.", the following should be added: "An alpha detector (such as the Ludlum 12-1A with an air proportional probe or an equivalent instrument) will be used to screen PPE and other disposable materials when these materials are dry. When these materials are wet, a Bieron Analyt FIDLER (or equivalent instrument) will be used for an initial screening. If a positive reading is encountered, the material is potentially contaminated and will be handled according to Section 6.2 of this SOP. If no positive reading is encountered on the Bieron Analyt FIDLER (or equivalent) representative samples of the materials or smears will be taken. After the samples or smears have been taken, wet PPE will be removed within a personal decontamination line (see Section 6.2). Each worker's PPE will be placed in individual 3 mil plastic bags until the sample or smear results are determined. The individual bags will be sealed and labeled with the same identifying markings as the associated samples or smears. The samples and smears will be counted using scintillation rate meters (e.g., SAC4, BCA, or equivalent instruments). If the scintillation meters indicate the presence of residual radioactive materials above 20 disintegrations per minute on any of the samples or smears, the associated plastic bags will be placed into 6 mil plastic bags, sealed and labeled as described in Section 6.2, Handling of Potentially Contaminated PPE. The remaining 3 mil plastic bags that had non-radioactive samples and smears will be combined into 6 mil plastic bags. The bags will be sealed and labeled as <u>not</u> potentially contaminated PPE (see Section 6.2)."
(5)	6	Section 6.0, Third Bullet	Replace "...cargo container in the EM contractor's yard." with "...cargo container in the contamination reduction zone located east of the decontamination pad."
(6)	7	Section 6.2, 1st Paragraph	Replace "...place their PPE in containers lined with plastic bags..." with "...place their PPE in 6 mil plastic bags...". At the end of the paragraph add: "If the PPE is wet an alpha detector will not be able to detect the presence of radioactive substances. Therefore, a Bieron Analyt FIDLER (or equivalent instrument) will be used to initially RAD screen the PPE and representative samples or smears will be taken."
(7)	8	6.2	Replace the sixth bullet with the following: "Markings for the 6 mil plastic bags will include the characters 'PPE'; the associated well, borehole, trench designation, or sample number and location; date; and either 'RADS NOT DETECTED' or 'RADS DETECTED (# of counts detected)' as appropriate."

**ENVIRONMENTAL RESTORATION AND WASTE MANAGEMENT
DOCUMENT CHANGE NOTICE (DCN)
(Continued)**

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PROCEDURE NUMBER Procedure No. SOP FO.6. 5-21000-OPS

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TITLE Handling of Personal Protective Equipment			DATE November 26, 1991	DCN NUMBER 5-21000-OPS-FO.06,R DCN.91.04			
Expires: February 27, 1992 2/9/92							
Limitations: None 12/7/91							
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)				
(8)	8	Section 6.2	In the last bullet replace "...in the EM contractor's yard..." with "...in the contamination reduction zone located east of the decontamination pad..."				
(9)	9	Section 6.3, Second Paragraph	In the second sentence replace "...garbage cans lined with plastic bags..." with "...6 mil plastic bags..."				
Justification (Reason for change - Provide numbers to reference corresponding items above.)							
<p>(1) The new language more appropriately describes the location of the potentially contaminated materials cargo container.</p> <p>(2) All bags must be characterized and labeled.</p> <p>(3) Six mil plastic bags will not tear easily and should be used when being placed in the cargo container.</p> <p>(4) This discussion addresses the appropriate measures necessary for RAD screening materials that are wet.</p> <p>(5) See Justification (1).</p> <p>(6) See Justification (3).</p> <p>(7) Addresses label distinctions for the detection of RADs.</p> <p>(8) See Justification (1).</p> <p>(9) See Justification (2).</p>							
Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>[Signature]</i>	QAPM	X	12/9/91	<i>[Signature]</i>	SWD	X	
<i>[Signature]</i>	DOM	X	12/4/91	<i>[Signature]</i>	RPD	X	12/4/91
<i>[Signature]</i>	DOM	X	12/9/91	<i>[Signature]</i>	RPD	X	12/5/91
13. Approval of Responsible Manager			14. Date	15. Is Posting Required		16. If Yes, by what date	17. Date Posted
<i>[Signature]</i> 12/9				<input checked="" type="radio"/> Yes <input type="radio"/> No			