

ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL

Manual No.: 5-21000-OPS-FO
Procedure No.: Table of Contents, Rev 9
Page: 1 of 3
Effective Date: 1/31/92
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)
- VOLUME VI: AIR (AP)

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TABLE

This is a stamp

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FO.02	Transmittal of Field QA Records	2	09/23/91
FO.03	General Equipment Decontamination	1	08/30/91
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DCN 92.01	Clarification of rinsing requirements	1	01/17/92
DCN 92.02	Replace triple rinse with double rinse	1	01/20/92
DCN 92.03	Delete Distilled Water Sampling	1	01/29/92
FO.04	Heavy Equipment Decontamination	1	08/30/91
DCN 92.01	Clarification of Work Area	1	01/31/92
FO.05	Handling of Purge and Development Water	1	08/30/91
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DCN 92.01	Clarify portected area	1	01/20/92
FO.06	Handling of Personal Protective Equipment	1	08/30/91

ADMIN RECORD

REVIEWED FOR CLASSIFICATION
By [Signature]
Date 2/10/92

"REVIEWED FOR CLASSIFICATION
By U.S. Sendelevich
Date 3 Feb 92"

A-SW-000238

**ROCKY FLATS PLANT
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DCN 91.01	Approved practices for disposal of surface water monitoring PPE	1	09/19/91
DCN 91.02	Superseded by DCN 92.02	1	01/20/92
DCN 91.04	Clarification of personal protective equipment surveyng	1	11/26/91
DCN 92.01	Change in PPE disposal requirements	1	01/17/92
DCN 92.02	Clarified protected area	1	01/20/92
FO.07	Handling of Decontamination Water and Wash Water	1	08/30/91
DCN 91.01	Superseded by DCN 92.01	1	01/20/92
DCN 91.02	Superseded by DCN 92.02	1	01/20/92
DCN 92.01	Clarify definition of potentially contaminated	1	01/20/92
DCN 92.02	Clarify work area characteristics	1	01/20/92
FO.08	Handling of Drilling Fluids and Cuttings	1	08/30/91
DCN 91.01	Superseded by DCN 92.03	1	01/29/92
DCN 91.02	Superseded by DCN 92.02	1	01/20/92
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DCN 92.01	Clarifying spraying requirements	1	01/20/92
DCN 92.02	Clarified protected area	1	01/20/92
DCN 92.03	Clarify Locking Requirements	1	01/29/92
FO.09	Handling of Residual Samples	1	08/30/91

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<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
FO.10	Receiving, Labeling, and Handling Environmental Materials Containers	1	08/30/91
DCN 91.01	Superseded by DCN 92.02	1	01/29/92
DCN 91.02	Superseded by DCN 92.01	1	01/20/92
DCN 92.01	Clarify environmental liquids generated	1	01/20/92
DCN 92.02	Delete usage of indelible markers	1	01/29/92
FO.11	Field Communications	1	08/30/91
FO.12	Decontamination Facility Operations	1	08/30/91
FO.13	Containerization, Preserving, Handling and Shipping of Soil and Water Samples	1	08/30/91
FO.14	Field Data Management	1	08/30/91
DCN 92.01	Expansion of sample analysis requirements	1	01/06/92
FO.15	Photoionization Detectors (PIDs) and Flame Ionization Detectors (FIDs)	1	08/30/91
FO.16	Field Radiological Measurements	1	08/30/91
DCN 92.01	Change in monitoring requirements for bedrock work	1	01/20/92
DCN 92.02	Change in Envelope Specifications	1	01/29/92
FO.17	Determining Out-Of-Specification Analytical Results for Environmental Samples		To Be Added
FO.18	Environmental Sample Radioactivity Content Screening	1	08/30/91
FO.19	Base Laboratory Work	1	08/30/91

DTN ATTACHMENT
January 31, 1992

EMD Operating Procedures Manual Volume I - Field Operations
(5-21000-OPS-FO)

DCN #	DCN Title	DCN Comment
FO.03 92.03	Delete Distilled Water Sampling	New DCN
FO.04 92.01	Clarification of Work Area	New DCN
FO.08 92.03	Clarify Locking Requirements	Withdraw expired/Superseded by DCN 5-21000-OPS-FO.08 91.01
FO.10 92.02	Delete usage of Indelible Markers	Withdraw expired/Superseded by DCN 5-21000-OPS-FO.10 91.01
FO.16 92.02	Change in Envelope Specifications	New DCN

Note: Insert new Table of Contents, Rev. 9, and destroy TOC, R8.

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 6-21000-OPS-FO 3, Rev. 1

Page 1 of 1

Title Heavy Equipment Decontamination	Date 1-29-92	DCN Number 5-21000-OPS-FO 3 4-2-92
Expires <u>4-30-92</u>	Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	92.0111/2/152
Scope Limitation <u>UST investigation in the PA</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	14 of 22	6.2.1 para 2	Add to the end of this paragraph: "All drillholes constructed within the PA for this project are considered as being in one work area."

Justification (Reason for Change -- Provide Numbers To Reference Corresponding Items Above)

This project involves drilling around fuel oil underground storage tanks (UST) in the PA. These USTs are covered with fill and are expected to have similar surface contaminants - primarily spilled fuel oil.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	GAPM	X	1/21/92	<i>[Signature]</i>	User	X	1/29/92
<i>[Signature]</i>	EOM	X	1/29/92	<i>[Signature]</i>	User	X	1/29/92

Approval of Responsible Manager <i>[Signature]</i>	Date 29 Jan 92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? 1-30-92	Date Posted
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ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21200-OP-FO.3

Page 1 of 1

Title GENERAL EQUIPMENT DECONTAMINATION			Date 01/28/92		DCN Number 5-21000-OPS- FD.3 42.03		
Expires 3/28/92 <u>4/23/92</u> / <u>1/29/92</u>			Procedure Revision Required		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>NONE</u>							
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)				
5.1 INTRO.	8 OF 18	3.0	<p>DELETE : STEP 3. Which states : Distilled water is defined as any commercially available distilled water. A record of the distilled water supplier and the lot numbers supplied will be maintained. A sample from the initial batch of each lot number will be analyzed for volatile organics, inorganics (major anions), metals, and total dissolved solids.</p>				
<p>Justification (Reason for Change – Provide Numbers To Reference Corresponding Items Above)</p> <p>Sampling of distilled water is not necessary at this time because rinsate samples will cover this analysis.</p>							
Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	OAPM	X	1/29/92	<i>[Signature]</i>	Surface Water Division	X	1-28-92
<i>[Signature]</i>	EOM	X	1/29/92	<i>[Signature]</i>	SWD	X	1-28-92
			1/29/92	<i>[Signature]</i>	ERD	X	1/28/92
				<i>[Signature]</i>	EM/ERD	X	1/28/92
Approval of Responsible Manager <i>[Signature]</i>			Date 1/29/92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? 1/29/92	
						Date Posted	

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS- FO.8

Page 1 of 1

Title Handling of Drilling Fluids and Cuttings		Date 12/18/91	DCN Number 5-21000-OPS- FO.8 92.03				
Expires <u>4-29-92</u> <i>11/27/92</i>		Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					
Scope Limitation <u>None</u>							
Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)				
1	10 of 12	6.4.1	Delete the word 'locked' from the sentence that reads, "After filling, these gray drums will be sealed, locked, marked and placed on a pallet at the drilling site."				
Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)							
Locking is not required in an area where RFP security monitors activities.							
Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	1/29/92				
<i>[Signature]</i>	EOM	X	1-28-92	<i>[Signature]</i>	RFD		12/18/91
Approval of Responsible Manager <i>Gary M Anderson</i>		Date 21 JAN 92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If Yes, By What Date? 1-28-92		Date Posted

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS- FO.10

Page 1 of 2

Title Receiving, Labeling and Handling Environmental Materials Containers	Date 12/18/91	DCN Number 5-21000-OPS- FO.10 92.02
Expires <u>4-29-92</u> <u>1/29/92</u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>None</u>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
FO.10 Rev 1	16	3	Omit '(or indelible marker)' and change the word 'should' to 'will'. (See attachment)

Justification (Reason for Change -- Provide Numbers To Reference Corresponding Items Above)

U.V. light deteriorates the indelible ink resulting in fading of the label and/or the lost ability to properly identify the label.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
	QAPM	X					
<i>M.C. Brown</i>	EOM	X	<u>1/28/92</u>	<i>Chase</i>	<i>EPD-USA</i>		<u>12/19/91</u>

Approval of Responsible Manager <i>M.A. ...</i>	Date <u>21 JAN 92</u>	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? <u>1-24-92</u>	Date Posted
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RECEIVING, LABELING, AND HANDLING ENVIRONMENTAL MATERIALS CONTAINERS

EG&G ROCKY FLATS PLANT	Manual:	5-21200-OPS
EMAD MANUAL OPERATION SOP	Procedure No.:	FO.10, Rev. 1
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	Effective Date:	June 10, 1991
Category 3	Organization:	Environmental Management

- location will be sent to an off site laboratory for a full suite of analytical results to characterize these environmental materials. The drums will remain at the drilling site until a Waste Operations storage area is available. At the time Waste Operations notifies EM that space is available, the drums will be moved to the transfer/storage area to await assessment of the associated environmental samples.

The subcontractor will perform the following steps to ensure the proper handling of the gray drums until transferred to EG&G custody:

- In addition to the drum number, the drums will be marked with the words "ENVIRONMENTAL MATERIAL PENDING ASSESSMENT"; the associated well, boring, or sampling number and location; the word "SOIL", or "PPE" (for disposable personnel protective equipment), as appropriate; the subsurface interval (if soil); and the date the drum was filled. (Soils will not be commingled with miscellaneous environmental materials or PPE within a drum.)
- A paint stick (~~or indelible marker~~) ^{4:11} should be used to apply identifying marks on drums to ensure that the marks will not be washed away during decontamination or precipitation. A paint stick should not be applied in the vicinity of sampling or field monitoring events to prevent cross-contamination of samples.
- Identifying marks should be legible, with characters approximately ²/₂ inches high, and written on two (opposite) sides and on the top of the drum.
- Gray drums will be placed on wood pallets at the drilling site.

ENVIRONMENTAL MANAGEMENT DOCUMENT CHANGE NOTICE (DCN)

Procedure Number 5-21000-OPS-FO.16, Rev. 1

Page 1 of 1

Title Field Radiological Measurements	Date 1/21/92	DCN Number 5-21000-OPS-FO.16 42.02
Expires <u>04/28/92</u> Procedure Revision Required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Scope Limitation <u>none</u> FO.16 — ROCKY FLATS PLANT ENVIRONMENTAL MANAGEMENT DEPARTMENT		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	5 of 16	5.2 Supplies	Change 6th bullet to: "Fold-over envelopes or glassine envelopes"
2	10 of 16	6.3.1.3 paragraph 2	In the last sentence, replace "glassine envelope" with "fold-over envelope or glassine envelopes".

Justification (Reason for Change - Provide Numbers To Reference Corresponding Items Above)

This change will make this SOP consistent with the EM Radiological Guidelines which specifies fold-over envelopes and glassine envelopes if fold-over envelopes are not available.

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	1/29/92	<i>[Signature]</i>	User	X	1/21/92
<i>[Signature]</i>	EOM	X	1/29/92				

Approval of Responsible Manager <i>[Signature]</i>	Date 01/29/92	Is Posting Req'd? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If Yes, By What Date? 01/29/92	Date Posted
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DCN Form 001