

ROCKY FLATS PLANT

Manual No.:

RFP/ERM-94-00028

HEALTH AND SAFETY PLAN

Section No.

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OU 1 HOT SPOT REMOVAL

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Effective Date:

09/15/94

Organization: Environmental Restoration Mgmt

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OPERABLE UNIT 1 HOT SPOT REMOVAL

<u>Section No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
•94-DMR-ERM-0110	Staffing Changes, Addition of Two Hot Spots, and Editorial Corrections	0	09/15/94
	Detailed Table of Contents	0	06/09/94
1.0	General Information	0	06/09/94
2.0	Health and Safety Hazard Assessment	0	06/09/94
3.0	Health and Safety Hazard Control	0	06/09/94
4.0	Personnel Health and Safety Training Requirements	0	06/09/94
5.0	Medical Surveillance Requirements	0	06/09/94
6.0	Site Control Measures	0	06/09/94
7.0	Decontamination Plan	0	06/09/94
8.0	Emergency Response	0	06/09/94
APPX	Appendices	0	06/09/94

ADMINISTRATIVE

DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991

A-DU01-000668

DOCUMENT MODIFICATION REQUEST (DMR)

Refer to 1-A01-PPG-001 for Processing Instructions.  
Print or Type All Information (Except Signatures)

INFORMATION ONLY

1. Date 9/9/94 25. 11/18/94  
DMR. No. 93-DMR-ERM-0110

2. Existing Document Number/Revision: RFP/ERM-94-00028  
3. New Document Number or Document Number if it is to be changed with this Revision: N/A  
4. Originator's Name/Phone/Page/Location: REBECCA HINSCH x8509 DP4589 CURE300  
5. Document Title: H&S plan for OVI Hot Spot Removal  
6. Document Type  Procedure  Other: H&S plan  
7. Document Modification Type (Check only one):  New  Revision  Intent Change  Nonintent Change  Editorial Correction  Cancellation

8. Item	9. Page	10. Step	11. Proposed Modifications
1.	39/43		TABLE B-2: CHANGE LISA NELOWET → PEGGY SCHRECKENGAST x6790
2.	APP B.		CHANGE MICHAEL KLEIN → WAYNE SPROLES x8598 DP1245
3.	1/43	1.1	CHANGE LISA NELOWET → PEGGY SCHRECKENGAST PARAGRAPH 2 REVISED TO REFLECT REMOVAL OF TWO ADDITIONAL HOT SPOTS: 2 <sup>ND</sup> SENTENCE TO READ: "THERE ARE FIVE HOT SPOTS ... AND FOUR CONTAMINATED WITH U (881-16/17, 881-18/19, 88100193 + 88100293) ... BY HAND IF POSSIBLE, OR BACKHOE IF NECESSARY, AND DRUM ..."
4.	APP E		MAP REVISED TO INCLUDE TWO ADDITIONAL HOT SPOTS.
5.	13/43		TABLE 2-1: SECOND TABLE SHOULD HAVE A '2' UNDER TASK #.
6.	14/43		TABLE 2-1: THIRD TABLE SHOULD HAVE A '3' UNDER TASK #.

12. Justification (Reason for Modification, EJO, TPI, etc.)  
ITEMS 1 AND 2 REQUIRED DUE TO STAFFING CHANGES.  
ITEMS 3 AND 4 REQUIRED DUE TO REMOVAL OF TWO ADDITIONAL HOT SPOTS.  
ITEMS 5 AND 6 ARE EDITORIAL CHANGES ONLY.

If modification is for a new procedure or a revision, list concurring disciplines in Block 13, and enter N/A in Blocks 14 and 15. If modification is for any type of change or a cancellation, organizations are listed in Block 13, then Concurror prints, and signs in Block 14, and dates in Block 15.

13. Organization	14. Print and Sign (if applicable)	15. Date (if applicable)
ERTISO	Kerth Anderson 15/	9/8/94
H&S Liaison	Peggy Schreckengast 15/	9/8/94
OVI Clearences	Wayne Sproles 15/	9/8/94
Road Eng	Jerry Anderson 15/	9/8/94

SEE ATTACHED PAGES FOR SIGNATURES

16. Originator's Supervisor (print, sign, date): K.K. O'Neill 9/9/94  
17. Assigned SME/Phone/Page/Location: W.R. SPROLES/8598/1245/080  
18. Cost Center  
19. Charge Number  
20. Requested Completion Date: 09/15/94  
21. Effector's Name: em  
22. Accelerated Review? Yes  No   
23. ORC Review: NOT REQUIRED  
24. Responsible Manager (print, sign, date): K.K. O'Neill 9/9/94

DOCUMENT CLASSIFICATION REVIEW WAIVER  
PER R.B. HOFFMAN, CLASSIFICATION OFFICE  
JUNE 11, 1991

REVIEWED FOR CLASSIFICATION/UCN  
BY: NA  
DATE: NA

EG&G ROCKY FLATS  
Health and Safety Plan for Operable Unit No. 1  
Hot Spot Removal

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Organization: Environmental Science & Engineering

Figure 1-6

EG&G HASP FIELD CHANGE FORM

Field Change Number: RFP/ERM-94-00028-03

Effective Date: 9/8/94

Requested by: REBECCA HINSCH  
(Print Name)

[Signature] 9/8/94  
Signature/Date

Pen and Ink changes to be made to the HASP to alert the reader of this change:

Reason for the change to be incorporated into the HASP:

INADVERTENTLY OMITTED FROM PREVIOUS ~~DRY~~ VERSION OF HASP. <sup>print 9/8/94</sup>

Text of change to be incorporated:

TABLE 2-1, pg. 13 OF 43, SECOND GRID SHOULD HAVE A '2' UNDER 'TASK #'.  
pg. 14 OF 43, THIRD GRID SHOULD HAVE A '3' UNDER 'TASK #'.

APPROVALS:  
[Signature] 9/8/94  
ERHSO/Date  
NA  
H&S Liaison Officer/Date  
[Signature] 9/8/94  
Project Manager/Date

AS NEEDED CONCURRENCE:  
Occupational Safety  
Radiological Engineering  
Industrial Hygiene  
Occupational Health  
Fire Department  
Radiological Operations

Editorial Changes only -  
\* 9/8/94

**2.0 HEALTH AND SAFETY HAZARD ASSESSMENT**

**2.1 Task Analysis**

Table 2-1 assigns task numbers to each discrete task at this (these) IHSS(s), PAC(s), or AAC(s). Tasks are broken down into steps. When Standard Operating Procedures (SOPs), or Operational Safety Analyses (OSAs) exist for any of the steps in a task, they are listed here. These documents may further clarify the steps in a particular task.

**TABLE 2-1  
 TASK ANALYSIS**

TASK #	TASK TITLE	SOP/OSA if applicable	TASK DESCRIPTION	TASK STEPS
1	Soil removal and packaging	N/A	Soil removal by hand. Area is approx. 0.4 m <sup>2</sup> . Soil to be packaged into drums. A backhoe may be used instead of shovels.	1. Pick up dirt with shovels 2. Dispose of dirt into drums 3. Rad survey of excavation 4. Close drums 5. Rad survey of drums 6. Decon personnel & equipment 7. Housekeeping per HSP 13.08

IHSS/PAC/AAC NUMBER(S) (if applicable) OR LOCATION: IHSSs 119.1 and 119.2

TASK #	TASK TITLE	SOP/OSA if applicable	TASK DESCRIPTION	TASK STEPS
2	Sampling	Lab Procedure L-3306 and L-6245.	Obtain sample by scooping soil into vials.	1. Per L-3306 and L-6245 2. Housekeeping per HSP 13.08

IHSS/PAC/AAC NUMBER(S) (if applicable) OR LOCATION: IHSSs 119.1 and 119.2

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TASK #	TASK TITLE	SOP/OSA	TASK DESCRIPTION	TASK STEPS
3	Waste Transfer	On-site Transportation manual and HSP 18.10.	Transfer sealed drums from site to permitted storage.	1. Transfer drums to truck 2. Load per procedures 3. Transport per procedures 4. Unload per procedures 5. Housekeeping per HSP 13.08

IHSS/PAC/AAC NUMBER(S) (if applicable) OR LOCATION: IHSSs 119.1 and 119.2

## 2.2 HAZARD ANALYSIS

Potential hazards associated with hazardous waste operations in the location(s) have been identified by reviewing the physical layout of each area, the tasks associated with each area, and, where available, the results of chemical and radiological monitoring during previous operations. Radiological, physical, chemical, and other hazards potentially encountered during routine tasks are presented in Table 2-2, sections one, two, three, four, and five and Appendix C. Where applicable, Operational Safety Analyses, Standard Operating Procedures, and pre-existing hazard analysis documents are referenced. Hazard analysis and control for non-routine activities may be described in applicable Job Safety analyses or Integrated Work Control Program packages.

**TABLE 2-2  
 HAZARD ANALYSIS AND CONTROL WORKSHEET BY TASK**

Sections of Table 2-2 which are not applicable to this task should be marked N/A.

TASK #	TASK TITLE	IHSS, etc.
1	Soil removal and packaging	IHSSs 119.1 & 119.2
2	Sampling	IHSSs 119.1 & 119.2
3	Waste Transfer	IHSSs 119.1 & 119.2