

**INFORMATION
ONLY**

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE HEALTH AND SAFETY PLAN ACCIDENT PREVENTION SAFETY PROGRAM PLAN INT. OPER. UNITS	Manual No.: Section No. Page: Effective Date: Organization:	RFP/ERM-94-00019 Table of Contents, R1 1 of 1 1/12/95 Environmental Restoration Mgmt
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HEALTH AND SAFETY PLAN
ACCIDENT PREVENTION SAFETY PROGRAM PLAN
INTEGRATED OPERABLE UNITS**

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APPA	Appendix A: Personal Protective Equipment and Monitoring Requirements	0	11/04/94
APPB	Appendix B: Jacobs' Medical Surveillance Procedures	0	11/04/94
APPC	Appendix C: Jacobs Engineering Group Standard Operating Procedures	0	11/04/94

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PER R.B. HOFFMAN, CLASSIFICATION OFFICER
JUNE 11, 1991

ADMINISTRATIVE RECORD

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Refer to 1-A01-PR ONLY Processing Instructions.
Print or Type All Information (Except Signatures)

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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	2-2	F2-1	Change names as shown on revised F2-1. OU9 Project Manager is John Zimmerman, Field Team Leader is Simon Bell, H&S Coordinator is Lisa Nelower, OU14 Project Manager is Bill Fieselman, HSS's are David Spruce, Tom Waddel.
2	Sec. 6 p.4	6.3	Delete 1st two sentences of Personal Sampling paragraph. Modify third sentence to read as follows "Personal sampling will be conducted only when Level C action Levels are reached with direct reading instruments or when otherwise noted in Appendix A."
3	Sec. 6 p.7	6.4.4	Insert new first sentence: "Personal sampling will only be performed when directed to by EG&G Radiological Engineering."
4	Sec. 6 p.8	6.4.6	Insert new first sentence: "Ambient air sampling for airborne alpha radioactivity will only be performed when directed to by EG&G Radiological Engineering or if action levels for dust are exceeded in an RCA."
5	Sec. 5 p. 42	5.5.9.1	Delete the word "strenuous" from the first sentence of "Heat Stress Monitoring and Work Cycle management." Delete "even if workers are not wearing impervious clothing." Delete "and body water loss" from 2nd paragraph under "Heat Stress Monitoring . . ." Change "oral temperature" to "oral or ear canal temperature."
6	Sec 6 p. 3	6.3	Delete paragraph 6, " The fact that contaminants are listed . . ."

12. Justification (Reason for Modification, EIO#, TP#, etc.)
Incorporating changes to improve compliance with 29CFR1910.120, and reflect current personnel and site conditions.

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 Concuror prints, and signs in Block 14, and dates in Block 15.

13. Organization	14. Print and Sign (if applicable)	15. Date (if applicable)
EOM	K. D. Anderson <i>[Signature]</i>	12/22/94
RE	D. Hyder <i>[Signature]</i>	12/22/94
IH	M. D. Schreckengast <i>[Signature]</i>	1/3/95
IA OU	B. D. Peterman <i>[Signature]</i>	12/22/94
QA	R. S. LIVER <i>[Signature]</i>	1/9/95

16. Originator's Supervisor (print/sign/date)
Bruce D. Peterman *[Signature]* B.D. Peterman 12/22/94

17. Assigned SME/Phone/Page/Location
Craig Cowdery/6953/5466/080 *[Signature]*
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24. Responsible Manager (print, sign, date)
Craig Cowdery *[Signature]* 12/22/94

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Jan 17/95

2. or 3. Document Number/Revision RFP/ERM-94-00019			3. Document Title Integrated Operable Units, Health & Safety Plan
8. Item	9. Page	10. Step	11. Proposed Modifications
7	Sec. 9 p.2	9.1.1	Change "dispose of glove" to "dispose of outer gloves" Add bullet after "Remove respirator bullet" to read "Remove and dispose of inner gloves."
8	Sec. 8 p.2	8.1.1	Change first paragraph to read "For activities to be conducted under this plan, personnel will wear Level D as defined in Section 8.1.3." Delete paragraphs 2 and 3
9	Sec. 8 p.5	8.1.3	Add bullet after dosimeter badge bullet to read "nitrile gloves if hand contact with potentially contaminated materials is likely."
10	Sec. 5 p.14	5.2.2	Integrate new chemicals as shown into Section 5.2.2 alphabetically.
11	Sec. 5 p.2	5.2 Table 5-1	Integrate new chemicals as shown into Table 5-1 chemical Exposure Hazard Summary alphabetically.
12	Sec. 5 p.38	5.5.3	Change "Utility clearance will be completed before work begins..." to "Utility clearance will be completed by the client before work begins..."
13	Sec. 5 p.38	5.5.3	Change (SOP 7.7) to read SOP 7.7a
14	Sec. 5 p.38	5.5.3	Delete "which uses hand-augering to confirm the absence of buried utilities," Change the last sentence to read "A copy of Jacobs' SOP 7.7a is provided in Appendix C
15	Appendix C	SOP 7.7	Delete SOP 7.7, add new SOP 7.7a Utility Clearance at Rocky Flats Plan (7 pages).
16	Sec. 7 p.4	7.1.5	The fourth bullet will read as follows: "All visitors will receive a site specific safety briefing, and will be escorted at all times. Visitors in areas requiring Level A, B or C PPE must have the equivalent training and PPE as the onsite worker to gain entry."
17	Sec. 7 p.4	7.1.5	Add bullet after above statement that reads, "Visitors in areas requiring Level D PPE must have Level D PPE, receive a site specific safety briefing, and will be escorted at all times.
18	Sec. 7 p.4	7.1.5	Add paragraph/sentence after "All site visitor access must be clearly documented..." bullet to read "If visitor does not supply current documentation but insists that he/she enters area, the following actions are to be taken:"
19	Sec. 7 p.4	7.1.5	Add bullet after above new statement to read, "On site HSS or HSST will shut down activities, secure area by monitoring with instrumentation, and contact HSO/HSS or Site Manager.
20	Sec. 7 pg.5	7.2	Is first sentence delete "heavy equipment or"
21	Sec. 6 p.4	6.3	Add new text to end of <u>Action Levels</u> paragraph: <u>When</u> action levels are reached which, according to Appendix A, require "evacuation and reevaluation," site workers must move to an area where direct reading instrumentation shows airborne concentrations are below the action levels of concern. The HSS/HSST must contact the Health & Safety Coordinator to determine further action.

Refer to 1-A01-PPG-001 for Processing Instructions.
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3. Document Title
 Integrated Operable Units, Health & Safety Plan

8. Item	9. Page	10. Step	11. Proposed Modifications
22	Sec. 6 p. 2	6.3	Add to end of 1st paragraph: "All monitoring will be in the breathing zone unless otherwise specified in Appendix A."
23	Sec. 10 p. 2	10.2.1	Add EG&G Operations Manager Representative. Change "Kent Mahana" to "Lisa Nelower."
24	Sec. 10 p. 3	10.2.1	Add EG&G Operations Manager Representative.
25	Sec. 10 p. 8	10.3.1	Add Operations Manager Representative, as listed in Tables 10-1, 10-2, must be notified of any unplanned releases.
26	Sec. 10 p. 9	10.3.2	Change "Kent Mahana" to "Lisa Nelower"
27	Sec. 5 p. 5-31	T5-4	Modify as shown.
28	Sec. 6 p. 3	6.3	Replace "every 15 minutes" to "whenever site conditions change" in first paragraph.
29		F7-1	Delete figure
30	Sec. 7 p. 5	7.2.1	Delete 1st sentence.

12. Justification (Reason for Modification, EJO#, TP#, etc.)

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<u>Pages</u>	<u>Effective Pages</u>	<u>Change Number</u>
TOC: viii	1/12/95	95-DMR-ERM-0004
Section 5: 1-59	1/12/95	95-DMR-ERM-0004
Section 6: 2-4, 7-8	1/12/95	95-DMR-ERM-0004
Section 7: 4-5	1/12/95	95-DMR-ERM-0004
Section 8: 2, 5	1/12/95	95-DMR-ERM-0004
Section 9: 2	1/12/95	95-DMR-ERM-0004
Section 10: 2-3, 8-9	1/12/95	95-DMR-ERM-0004
Appendix C: SOP 7.7a	1/12/95	95-DMR-ERM-0004

will receive a copy of the PPE requirements. A change will be published to this plan if PPE changes are permanent and if the HSS/HSO considers the changes significant.

8.1.1 Base Levels of Protection

For activities to be conducted under this plan, personnel will wear Level D as defined in Section 8.1.3.

Protective clothing will be upgraded in the event that (1) free liquids or surface liquids are encountered, (2) gases or vapors are detected in excess of Level C action limits, or (3) unexpected hazards requiring increased skin protection are encountered. Upgraded clothing may consist of Tyvek, polycoated Tyvek or Saranex-coated Tyvek. Information to be used for upgrading chemical protective clothing is available in Appendix A under the PPE heading. Information provided under that heading represents upgraded requirements, not base requirements.

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- boots (steel toe and shank chemical-resistant);
- work gloves (optional);
- safety glasses with side shields or chemical splash goggles;
- hard hat (when appropriate);
- air-purifying respirators (available for use);
- hearing protection (when appropriate);
- two-way radio communications if line of sight is not maintained (intrinsically safe);
- dosimeter badge; and
- nitrile gloves if hand contact with potentially contaminated materials is likely.

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Meeting all of these criteria allows the use of Level D protection:

- no hazardous air pollutants are measured; and
- work functions preclude splashes, immersion, contact, or potential for unexpected inhalation of any chemicals.

Level D protection is primarily a work uniform and will be worn only in areas where the potential for exposure to toxic substances does not occur. As data become available, PPE can be modified to Level D protection for a specific IHSS.

8.1.4 Level D Modified

Equipment to be considered Level D Modified includes equipment outlined in Section 8.1.3, with the following changes:

- outer disposable boots (optional);
- chemical-resistant clothing (Tyvek, polyethylene-coated Tyvek or Saranex coveralls);
- chemical-resistant outer gloves;
- latex inner gloves (surgical); and
- respirator (air purifying) available for use.