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DEPARTMENT OF ENERGY  
ALBUQUERQUE OPERATIONS OFFICE  
ENVIRONMENT, SAFETY AND HEALTH DIVISION  
ENVIRONMENTAL PROGRAMS BRANCH

COMPREHENSIVE ENVIRONMENTAL ASSESSMENT  
AND RESPONSE PROGRAM

PHASE 2:  
ROCKY FLATS PLANT  
INSTALLATION GENERIC MONITORING PLAN

July 1986

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ALBUQUERQUE OPERATIONS OFFICE  
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SYNOPSIS

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**ROCKY FLATS PLANT  
INSTALLATION GENERIC MONITORING PLAN**

**SYNOPSIS**

**1 INTRODUCTION**

This synopsis of the Comprehensive Environmental Assessment and Response Program (CEARP) Phase 2 Installation Generic Monitoring Plan (IGMP) for Rocky Flats Plant provides a brief overview of CEARP and its Phase 2 implementation at Rocky Flats Plant. CEARP consists of five phases: Phase 1 - Assessment of the Installation; Phase 2 - Confirmation; Phase 3 - Technological Assessment; Phase 4 - Remedial Action; and Phase 5 - Compliance and Verification. Additional background on CEARP is provided in the CEARP Phase 1 Installation Assessment - Rocky Flats Plant which includes a detailed discussion of Phase 1 implementation, and in the CEARP Generic Monitoring Plan (CGMP) which contains a detailed discussion of Phase 2 implementation. The CEARP Phase 2 IGMP for Rocky Flats Plant is tiered from the CGMP and incorporates pertinent information by reference.

## 2 CEARP PHASE 2 - IMPLEMENTATION

The Rocky Flats Plant IGMP contains (1) a Description of Current Situation which is the CEARP Phase 1 Installation Assessment - Rocky Flats Plant that is incorporated by reference and (2) a Description of Plans- Sampling Plan Technical Data Management Plan Health and Safety Plan, and Quality Assurance/Quality Control Plan. The Rocky Flats Plant IGMP is tailored to those sites and situations identified during CEARP Phase 1 that require Phase 2 site characterization. Potential sites identified during the Phase 1 investigations are summarized in Tables 2.1, 2.2, and 2.3. A detailed discussion of these sites and of those sites with negative findings for CEARP Phase 1 (no further action) are found in the CEARP Phase 1 Installation Assessment - Rocky Flats Plant.

### 2.1 BACKGROUND - CEARP PHASE 1 INSTALLATION ASSESSMENT

During CEARP Phase 1, potential RCRA continuing release and CERCLA sites identified at Rocky Flats Plant were evaluated in compliance with DOE Order 5480.14 (CERCLA Implementation) and for the following Environmental Protection Agency (EPA) CERCLA preremedial activities: (1) Federal Facility Site Discovery and Identification Findings (FFSDIF), (2) Preliminary Assessment (PA), (3) Site Inspection (SI), and (4) Hazard Ranking System (HRS) evaluation. Sites at Rocky Flats Plant were recommended for no further action when CEARP findings indicated (1) negative findings for the CERCLA FFSDIF process (e.g. potential sites that were found not to exist or spills that were completely removed through remedial action) or (2) sites initially requiring notification for the FFSDIF process that were later found to pose no significant threat of release under CEARP for the EPA CERCLA PA process (e.g. potential sites where the hazardous substance initially identified because of its stability no longer persists in the environment). Consequently, sites at Rocky Flats Plant that no longer pose a significant threat of release were not included in the EPA HRS and DOE Modified HRS (MHRS). This procedure is consistent with guidance provided to federal facilities by EPA (*Federal Facility Program Manual for Implementing CERCLA Responsibilities of Federal Agencies final draft*).

Sites with positive findings for the CERCLA preremedial activities having sufficient available information for HRS evaluation were scored as follows: (1) non

radioactive sites were scored with the EPA HRS and (2) radioactive sites were scored with the EPA HRS and the DOE MHRS. Sites meeting EPA criteria to be listed on the National Priorities List (NPL) were recommended for future action under DOE CERCLA Phase 2 to quantify potential migration problems. DOE CERCLA Phase 2 is consistent with EPA CERCLA. Sites that did not meet EPA criteria to be listed on the NPL but exceeded other applicable DOE remedial action criteria/guidelines (e.g., guidelines for the DOE Surplus Facilities Management Program) and/or sites posing potential regulatory compliance concerns (e.g., RCRA-related remedial activities) were recommended for future action under CEARP. No further action was recommended for those sites not meeting these criteria.

Sites that are currently undergoing remedial activity were placed into CEARP Phase 4 (Remedial Action), which encompasses requirements of the DOE CERCLA Order (Phase 4) and the remedial implementation program elements of EPA CERCLA (Design and Action). Sites that have already undergone remedial measures were placed into CEARP Phase 5 (Compliance and Verification), which encompasses the requirements of the DOE CERCLA Order (Phase 5) and EPA CERCLA final site inspection/closeout and monitoring.

The CEARP Phase 1 report for Rocky Flats Plant separated RCRA continuing offense and CERCLA sites into three major categories based on waste characteristics: (1) sites with radioactive wastes or contamination, (2) sites with radioactive and hazardous chemical wastes or contamination, and (3) sites with nonradioactive hazardous chemical wastes or contamination.

A preliminary prioritization of CEARP sites, Phases 1-5, has been completed for Rocky Flats Plant with input from CEARP (DOE 1986). The preliminary prioritization reports are provided as Appendix A of this document. The preliminary characterization priority level for all CEARP sites is presented in Tables 2.1, 2.2, and 2.3. The preliminary prioritization of sites was done first by eliminating all sites that received a negative CERCLA finding for FFSDIF, PA, and PSI during CEARP Phase 1 investigations. Next, all sites identified as being in CEARP Phase 4 or CEARP Phase 5 (sites that would not require CEARP Phase 2 site characterization studies) were automatically placed at the bottom of the list. The remaining sites, except for volatile organic compounds (VOCs) in groundwater, which is currently under investigation, were then ranked based upon their potential environmental risk. This risk evaluation

included an assessment of potential mobility toxicity and quantity of possible contaminants including the HRS evaluation as well as concerns expressed by the State of Colorado

During the ranking process, the background information from the CEARP Phase 1 report was compared with preliminary soil gas and geohydrological studies being conducted at Rocky Flats Plant. This ranking resulted in 15 site characterization priority levels (1 being the highest priority, 15 the lowest) for the 65 sites, or site aggregations, listed as requiring further action under CEARP.

## 2.2 PRIORITIZATION OF CEARP PHASE 2 SITES

The preliminary prioritization of sites currently scheduled for CEARP Phase 2 is shown in Table 2.4. The priorities are based on the preliminary prioritization of CEARP sites (DOE 1986). Priorities shown in Table 2.4 will be adjusted as additional information is collected and additional sites are given a priority and added to the list based upon the results of the supplemental CEARP Phase 1 activities. The Rocky Flats Plant IGMP will be updated to reflect the status of CEARP sites.

Table 2 8 Potential CERCLA Sites Identified During CEARP Phase I with Possible Radioactive Waste or Contamination Requiring Further Action

Characterization Priority Level	Site	DOE CEARP Phase I		Planned Future Action	
		FFSDIF/PA/PSI <sup>a</sup> Findings	MRS <sup>b</sup> Score		
			MRS <sup>b</sup> Score	EPA CERCLA Program Element	DOE CERAP/CERCLA <sup>c</sup> Order Phase
15	Rad Soil Burial (300 Area)	NA <sup>d</sup>	NA	None	Compliance and Verification (Phase V)
15	Rad Site (400 Area)	NA	NA	None	Compliance and Verification (Phase V)
15	Rad Sites (2) (500 Area)	NA	NA	None	Compliance and Verification (Phase V)
15	Rad Sites (2) (600 Area)	NA	NA	None	Compliance and Verification (Phase V)
12	Rad Sites (4) (700 Area)	Positive	NE <sup>c</sup>	None	Installation Assessment (Phase I Supplemental)
15	Site 2	NA	NA	None	Compliance and Verification (Phase V)
15	Site 3	NA	NA	None	Compliance and Verification (Phase V)
12	Site 4	Positive	NE	None	Installation Assessment (Phase I, Supplemental)

Table 2 1 (Continued)

Site	Characterization Priority Level#	DOE CERCLA Phase I		Finding	EPA CERCLA Program Element	Planned Future Action
		HRS	Score			
Rad Sites (2) (800) Area						
Site 1	11	20	0	Positive	None	Confirmation (Phase II)
Site 2	15	NA	NA	NA	None	Compliance and Verification (Phase V)
903 Lip Area (900 Area)	15	NA	NA	NA	None	Remedial Action (Phase IV)
Triangle Area (900 Area)	15	NA	NA	NA	None	Compliance and Verification (Phase V)

# From the Draft Preliminary Prioritization of Sites U S Department of Energy, Rocky Flats Plant unnumbered report July 21 1986

a Federal Facility Site Inventory and Identification Findings/Preliminary Assessments/Preliminary Site Inspections

b EPA Hazard Ranking System/DOE Modified Hazard Ranking System

c Comprehensive Environmental Assessment and Response Program/Comprehensive Environmental Response Compensation and Liability Act

d Not Applicable

e Not Evaluated

Table 2.2, Potential CERCLA Sites Identified During CEARP Phase I  
with Significant Reductive/Hazardous Chemical Waste or Contamination Requiring Further Action

Site	Characterization Priority Level	DOE CEARP Phase I		Finding	Planned Future Action	
		FFSDIF/PA/PSI <sup>a</sup> MRS <sup>b</sup> Score	MRS <sup>b</sup> Score		EPA CERCLA Program Element	DOE CEARP/CERCLA <sup>c</sup> Order Phase
Original Process Waste Lines (all areas)	8	NE <sup>d</sup>	NE	Positive	None	Installation Assessment (Phase I, Supplemental)
Original Landfill Original Plant Site	5	15	5	Positive	None	Confirmation (Phase II)
Present Landfill Original Plant Site	5	34	5	Positive	Remedial Investigation	Confirmation (Phase II)
Trench T 1 (900 Area)	3	17	6	Positive	None	Confirmation (Phase II)
Trench T 2 (900 Area)	3	17	6	Positive	None	Confirmation (Phase II)
Trench T 3 (900 Area)	3	17	6	Positive	None	Confirmation (Phase II)
Trenches T 4 to T 11 (900 Area)	3	17	6	Positive	None	Confirmation (Phase II)
207 Solar Evaporation Ponds (900 Area)	1	46	7	Positive	Remedial Investigation	Confirmation (Phase II)
Retention Ponds Original Plant Site/ Buffer Zone	14	NE	NE	Uncertain	None	Installation Assessment (Phase I, Supplemental)

Table 2.2 (continued)

Site	Characterization Priority Level #	DOE CERCLA Phase I		Finding	EPA CERCLA Program Element	Planned Future Action
		PSD/PA/PSI <sup>a</sup>	MIIRS <sup>b</sup>			
		Score	Score			
Cooling Tower Ponds (400 Area)	13	12	NE	Positive	None	Confirmation (Phase II)
903 Drum Storage Area (900 Area)	4	26	1	Positive	None	Confirmation (Phase II)
Mound Area (900 Area)	4	NE	NE	Positive	None	Installation Assessment (Phase I Supplemental)
Out of Service Process Waste Tanks (700 Area)	8	NE	NE	Positive	None	Installation Assessment (Phase I Supplemental)
Concrete Process Waste Tanks (700 Area)	15	NA <sup>c</sup>	NA	NA	None	Compliance and Verification (Phase V)
Radioactive Liquid Waste Storage Tanks (700 Area)	8	NE	NE	Positive	None	Installation Assessment (Phase I Supplemental)
Holding Tanks (700 Area)	8	NE	NE	Positive	None	Installation Assessment (Phase I, Supplemental)
Valve Vault 7 (700 Area)	8	NE	NE	Positive	None	Installation Assessment (Phase I Supplemental)
Sewer Line Break (700 Area)	14	NE	NE	Positive	None	Installation Assessment (Phase I, Supplemental)

Table 2 2 (continued)

Characterization Priority Level	Findings	DOE Phase I		EPA CERCLA Program Element	Planned Future Action
		FFSDIF/PA/PSI MRS SCORE	MRS SCORE		
15	NA	NA	NA	None	Compliance and Verification (Phase V)
15	NA	NA	NA	None	Compliance and Verification (Phase V)
15	NA	NA	NA	None	Compliance and Verification (Phase V)
9	Positive	NE	NE	None	Installation Assessment (Phase I, Supplemental)
13	Positive	NE	NE	None	Installation Assessment (Phase I, Supplemental)
14	Positive	NE	NE	None	Installation Assessment (Phase I, Supplemental)
10	Positive	NE	NE	None	Installation Assessment (Phase I, Supplemental)
15	NA	NA	NE	None	Compliance and Verification (Phase V)
13	Positive	NE	NE	None	Installation Assessment (Phase I, Supplemental)

Table 2.2 (continued)

Site	Characterization Priority Level <sup>a</sup>	Finding	DOE CERCLA Phase I		Planned Future Action
			MRS Score	MHRS Score	
Waste Spills (100 Area)	15	NA	NA	NA	None EPA CERCLA Program Element DOE CERCLA Order Phase
Sanitary Waste Line Leak (800 Area)	14	Positive	NE	NE	Installation Assessment (Phase I Supplemental)
Underground Concrete Tanks (400 Area)	8	Positive	NE	NA	Installation Assessment (Phase I Supplemental)
Pallet Burn Site (900 Area)	15	NA	NA	NA	Compliance and Verification (Phase V)

<sup>a</sup> From the Draft Preliminary Prioritization of Sites U.S. Department of Energy, Rocky Flats Plant unnumbered report, July 21 1986

<sup>b</sup> Federal Facility Site Assessment and Identification Findings/Preliminary Assessments/Preliminary Site Inspections

<sup>c</sup> EPA Hazard Ranking System/DOE Modified Hazard Ranking System

<sup>d</sup> Comprehensive Environmental Assessment and Response Program/Comprehensive Environmental Response Compensation and Liability Act

<sup>e</sup> Not Applicable

<sup>f</sup> Not Evaluated

Table 2.2. Potential CERCLA Sites Identified During CEARP Phase I with Existing Nonradioactive Hazardous Chemical Waste or Contamination Requiring Further Action

Characterization Priority Level	DOE CERCLA Phase I		DOE CERCLA Phase I		EPA CERCLA Program Element	Planned Future Action
	FISD1F/PA/PSI <sup>a</sup>	Score	MIRS <sup>b</sup>	Score		
	Finding	Score	MIRS <sup>b</sup>	Score		
Cooling Tower Blowdown (300 Area)	13	Positive	NE <sup>d</sup>	NA <sup>e</sup>	None	Installation Assessment (Phase I Supplemental)
Cooling tower Blowdown (700 Area)	13	Positive	NE	NA	None	Installation Assessment (Phase I, Supplemental)
Hillside Oil Leak (800 Area)	2	Positive	NE	NA	None	Installation Assessment (Phase I, Supplemental)
Oil Leak (400 Area)	10	Positive	NE	NA	None	Installation Assessment (Phase I Supplemental)
Oil Sludge Pit (800 Area)	2	Positive	9	NA	None	Confirmation (Phase II)
Fuel Oil Leak (300 Area)	15	NA	NA	NA	None	Compliance and Verification (Phase V)
Fuel Oil Tank (600 Area)	15	NA	NA	NA	None	Compliance and Verification (Phase V)
Lithium Metal Destruction Site (300 Area)	13	Positive	8	NA	None	Confirmation (Phase II)
Reactive Metal Destruction Site (900 Area)	13	Positive	16	NA	None	Confirmation (Phase II)
Chemical Storage (500 Area)	6	Positive	NE	NA	None	Installation Assessment (Phase I, Supplemental)

44-487 SITE

- 13 LITHIUM AREA DESTROYED
- 13 COOLING TOWER BLOWDOWN #1
- 13 COOLING TOWER POND 1
- 13 COOLING TOWER BLOWDOWN #2
- 13 COOLING TOWER BLOWDOWN #3
- 13 COOLING TOWER BLOWDOWN #4
- 13 COOLING TOWER BLOWDOWN #5
- 13 COOLING TOWER BLOWDOWN #6
- 13 COOLING TOWER BLOWDOWN #7
- 13 COOLING TOWER BLOWDOWN #8
- 13 COOLING TOWER BLOWDOWN #9
- 13 COOLING TOWER BLOWDOWN #10
- 13 COOLING TOWER BLOWDOWN #11
- 13 COOLING TOWER BLOWDOWN #12
- 13 COOLING TOWER BLOWDOWN #13
- 13 COOLING TOWER BLOWDOWN #14
- 13 COOLING TOWER BLOWDOWN #15
- 13 COOLING TOWER BLOWDOWN #16
- 13 COOLING TOWER BLOWDOWN #17
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- 13 COOLING TOWER BLOWDOWN #30
- 13 COOLING TOWER BLOWDOWN #31
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- 13 COOLING TOWER BLOWDOWN #98
- 13 COOLING TOWER BLOWDOWN #99
- 13 COOLING TOWER BLOWDOWN #100

CONTINUED

BLM 1311 IS SHOWN ON THE 100 WASHINGTON AREA DESTROYED SITE. THE AREA WAS DISPOSED OF BY PLACING IT IN WATER FILLED TRENCHES THE TRENCHES WERE FILLED WITH SOIL  
 REMOVED FROM A COOLING TOWER # OF R/W 774 SHOWN ON DRAWING 100A IN W/NOI CASE  
 THE 3 COOLING TOWER POND BLOWDOWN AREA R/W 644 ARE 20 123 & 25 375. THE POND WAS USED TO DESTROY LITHIUM AREA AT PRESENT THE POND ARE FILLED IN WITH SOIL  
 COOLING TOWER BLOWDOWN # 5 OF R/W 774 BLOWDOWN BLOWDOWN FIELD IN W/NOI CASE  
 A COOLING TOWER SPILL IN R/W 1913 LEAKED INTO A STORM DRAIN NEAR R/W 779  
 MULTIPLE LEAKS AND SPILLS OF CHEMICALS HAVE OCCURRED AROUND R/W 771 & 774 THESE HAVE INCLUDED POTASSIUM HYDROXIDE SODIUM HYDROXIDE & HYDROFLUORIC ACID  
 THE 9 AREA LOCATED S OF THE 903 BURN STORAGE AREA HAS BEEN USED IN THE 1960 S & 1940 S TO DISPOSE OF LITHIUM IN TRENCHES IN ADDITION UNKNOWN FLAMMABLE LIQUIDS WERE BURNED IN THE TRENCHES  
 LUDGE IS BUILT AND PACKED FOR OFFSITE DISPOSAL AS PRODUCT WASTE PRIOR TO 1903 SOME OF THE SLUDGE WAS DISPOSED AROUND THE DRYING BEDS & ON BOTH SIDES OF THE PENINSULA ROAD E OF R/W 645  
 PROCESS ON LAUNDRY WASTE LINES FROM R/W 771 DRAINAGE INTO W/NOI CASE DURING THE R/W 1905  
 A SANITARY SEWER LINE BROKE BETWEEN R/W 779 & 774 THE BREAK RESULTED IN RADIOACTIVE CONTAMINATION OF AN AREA APPROX 500 M OF THE RULINGS THE LINE CARRIED LAUNDRY EFFLUENT BETWEEN 1969/1973  
 IN JAN 1981 THE SANITARY WASTE LINE LOCATED S OF R/W 801 LEAKED THE LINE WAS REPAIRED AND AN EARTHEN DIRT WAS PLACED TO STOP S EARTH INTO THE SOUTH INTERSECTION DITCH  
 FROM THE LATE 1920 S UNTIL 1979 A CONCRETE PROCESS WASTE TANKS LOCATED E OF R/W 774 FREQUENTLY OVERFLOWED IN 1979 THE TANKS WERE REPAIRED  
 CONTAMINATION N OF R/W 801 EXISTS FROM LEAKS AND SPILLS FROM THE PROCESS WASTE LINES MOST SPILLS WERE CLEANED UP  
 SEVERAL SMALL SPILLS OF MATERIALS WHICH MAY HAVE COME FROM RADIOACTIVE MATERIALS OCCURRED AROUND R/W 123  
 PRIOR TO MEASURING EVALUATION OPERATIONS IN R/W 74 THE EFFLUENT PIPE FROM R/W 774 TO THE 20 POND WAS SEPARATED AND LEAKED SINCE EVALUATION OPERATIONS IN R/W 774 THE PIPE WASN'T BEEN USED  
 IN AUG 1991 AN OIL SPILL OCCURRED N OF R/W 574 THE AREA WAS CLEANED  
 ONE OF THE FRI OIL TANKS PRIOR 2 11 LOCATED SOUTH OF CENTRAL AVE & WEST OF 7TH STREET OVERFLOWED IN JAN 1971 THE OVERFLOW WAS CONTAINED AND CLEANED UP A SHALLOW SPILL OCCURRED IN FEB 1977  
 THE OIL POND #11 WAS LOCATED NEAR THE NORTH AREA N OF THE 90 STORAGE AREA THE PIT WAS USED IN 1957 & FROM 1961 1965 TO BURN OIL CONTAMINATED WITH URANIUM THE PIT WAS BACKFILLED & CLEANED UP  
 IN 1965 AN AREA SW OF OIL BURN PIT #2 WAS USED TO BURN WOODEN PALLETS WHICH MAY HAVE HAD NUCLEAR WASTES SPILLED ON THEM THE SITE WAS CLEANED UP DURING THE 1970 S  
 BURNING FROM REGULAR CLEAN UP OF THE 903 BURN STORAGE AREA PLUTONIUM WAS WIND BLOWN TO THE EAST OF THE SITE PARTIAL CLEAN UP WAS CONDUCTED IN THE FALL OF 81 & IS PRESENTLY BEING CONDUCTED  
 SOIL WAS SUPPLEMENTED MOVED SWICE FROM R/W 774 TO PARTIAL LOT 3314 TO EAST OF 20 SOLAR POND  
 SOILS WERE REPAIRED FROM POND #105 & 111 AND 111 DISPOSAL IS UNKNOWN  
 RAILROAD LOADING DOCK ON N SIDE OF R/W 61 WAS USED FOR LOADING OF WASTE FOR OFF SITE DISPOSAL SPILLS AND LEAKS WERE NOTED IN INTERVIEWS  
 IN 1977 A PROCESS WASTE LINE BURSTED FLOODING A WASTE COLLECTION TANK NEAR R/W 559 THE MATERIAL WAS CONTAINED TO THE TANK AND SURROUNDING SOIL  
 RADIOACTIVE CONTAMINATION TO THE EAST AND REPAIR PAINTING LOT 1441 SOURCE OF CONTAMINATION IS UNKNOWN  
 RADIOACTIVE CONTAMINATION TO THE W ST OF R/W 644 SOURCE OF CONTAMINATION IS UNKNOWN  
 DURING PAINTING OF 01H STREET RADIOACTIVE HOT SPOTS WERE LOCATED THE HOT SPOTS WERE PAINTED OVER  
 AN OPEN AREA N OF R/W 74 WAS USED TO WASH CONTAMINATED EQUIPMENT THE EFFLUENT WAS ALLOWED TO SEEP INTO THE GROUND  
 IN 1978 AN AREA N OF R/W 681 WAS CONTAMINATED BY A CONCRETE SLAB FROM R/W 774 THE SLAB WAS BROKEN UP AND REPORTED DISPOSAL SITE IS UNKNOWN  
 THE AREA E OF THE SOLAR POND & INS OF THE SECURITY FENCE WAS USED FOR STORAGE OF PLUTONIUM CONTAIN WASTE & EQUIPMENT AND MATERIALS FROM THE 69 FIRE LEAKING CON TAINERS WERE DISPOSED OF OFFSITE



LEE PETERSON & ASSOCIATES  
 ROCKY FLATS PLANT  
 JULY 1988

GROUP	WASTE TYPE	SITE	APPR.	WPS	WMS	FS(S)	PHASE	CLAMP	TYPE OF WASTES	VOL. OF WASTES
1	H	LITHIUM METAL DESTRUCTION	300	0	NA	P	2	LITHIUM	LITHIUM & UNKNOWN MATERIALS WASTES	UNKNOWN VOLUME
1	H	COOLING TOWER BLINDING #1	300	NE	NA	P	2	CHROMATES & ACETATES	UNKNOWN VOLUME	
13	H	COOLING TOWER PUMPS (2)	400	1	NE	F	2	CHROMATES (LITHIUM ACETATES & POSSIBLE URANIUM	UNKNOWN VOLUME	
13	H	COOLING TOWER BLINDING #2	700	NE	NA	P	1	CHROMATES & ACETATES	UNKNOWN VOLUME	
13	H	COOLING TOWER BLINDING #3	700	NE	NA	F	1	CHROMATES & ACETATES	400 GAL	
1	H	CAUSTIC ACTS SPILLS	700	NE	N	P	1	HYDROXIDES AND FLUORIDES	UNKNOWN VOLUME	
1	H	REACTIVE METAL DESTRUCTION	900	NE	NA	P	1	LITHIUM & UNKNOWN MATERIALS WASTES	UNKNOWN VOLUME	
13	R/H	SLUDGE DISPERSAL	900	NE	NE	P	1	SANITARY SEWER SLUDGE & RADIOACTIVELY CONTAMINATED SOIL	UNKNOWN VOLUME	
14	R/H	RETENTION PUMPS A B C TUBES	200	NE	K	NE	1	MIXED WASTES POSSIBLE NITRATES & RADIOACTIVELY WASTES	UNKNOWN VOLUME	
14	R/H	OLD WHITEL	200	NE	NE	F	1	RADIOACTIVE MATERIALS & NA K SULFATES & NITRATES	UNKNOWN VOLUME	
14	R/H	SEWER LINE BREAK	800	NE	NE	P	1	SANITARY SEWER SLUDGE & RADIOACTIVE MATERIALS	UNKNOWN VOLUME	
14	R/H	SANITARY WASTE LINE E 1	800	NE	NE	P	1	RADIOACTIVE LABORATORY EFFLUENT	UNKNOWN VOLUME	
1	P/H	CONCRETE PROCESS WASTE TANKS	700	NA	NA	NA	1	PLUTONIUM URANIUM ACTES & CAUSTICS IN AQUEOUS SOLUTION	UNKNOWN VOLUME	
1	P/H	PROCESS WASTE TANKS	BP	NA	K	NA	1	UNKNOWN PROCESS WASTES	UNKNOWN VOLUME	
1	P/H	WASTE SPILLS	100	NA	NA	NA	1	NITRATES & RADIOACTIVELY CONTAMINATED SOIL	UNKNOWN VOLUME	
1	K/H	EFFLUENT PIPES	100	NA	NA	NA	1	RADIOACTIVE AQUEOUS SOLUTION WITH CAUSTICS & ACIDS	UNKNOWN VOLUME	
1	H	PAVING LEO LEAKS & SPILLS B1	700	NA	NA	NA	5	UNKNOWN RADIOACTIVE LIQUID MIXED WASTE	200 GAL	
1	H	FUEL OIL LEAK #3	600	NA	NA	NA	5	FUEL OIL	1 100 GAL	
1	H	FUEL OIL TANK SPILL	600	NA	NA	NA	5	UNKNOWN TYPE FUEL OIL POSSIBLY #2	1 100 GAL	
1	R/H	PALLET BURN P11 #2	900	NA	NA	NA	5	RESIDUAL HYDROCARBON & URANIUM CONTAMINATED SOIL	10 000 CF	
15	R/H	PALLET BURN SITE	900	NA	NA	NA	4	MIXED WASTES	UNKNOWN VOLUME	
15	R	90 CLIP AREA	900	NA	NA	NA	4	PLUTONIUM CONTAMINATED SOIL	4 7 MILLION LBS	
15	R	RADIOACTIVE SOIL BURNAL SITE	900	NA	NA	NA	5	PLUTONIUM CONTAMINATED SOIL	UNKNOWN VOLUME	
15	R	RADIOACTIVE SITE #1	400	NA	NA	NA	5	URANIUM CONTAMINATED SOIL	UNKNOWN VOLUME	
15	R	RADIOACTIVE SITE #2	90	NA	NA	NA	5	UNKNOWN TYPE OF RADIOACTIVE CONTAMINATION	UNKNOWN VOLUME	
15	R	RADIOACTIVE SITE #3	500	NA	NA	NA	5	UNKNOWN TYPE OF RADIOACTIVE CONTAMINATION	UNKNOWN VOLUME	
15	R	RADIOACTIVE SITE #4	600	NA	NA	NA	5	PLUTONIUM CONTAMINATED SOIL	UNKNOWN VOLUME	
1	R	RADIOACTIVE SITE #1	600	NA	NA	NA	5	PLUTONIUM CONTAMINATED SOIL	UNKNOWN VOLUME	
1	R	RADIOACTIVE SITE #2	700	NA	NA	NA	5	UNKNOWN TYPE OF RADIOACTIVE CONTAMINATION	UNKNOWN VOLUME	
1	R	RADIOACTIVE SITE #8	700	NA	NA	NA	5	UNKNOWN TYPE OF RADIOACTIVE CONTAMINATION	UNKNOWN VOLUME	
1	R	RADIOACTIVE SITE #11	800	NA	NA	NA	5	POSSIBLE PLUTONIUM CONTAMINATED SOIL	UNKNOWN VOLUME	
1	R	TRIANGLE AREA	90	NA	NA	NA	5	PLUTONIUM CONTAMINATED SOIL	UNKNOWN VOLUME	





2000 NONRADIOACTIVE HAZARDOUS WASTE OR CONTAMINATION SITES

NAME	DATE	QTY	WTS	WTS	FRSGHT	CLASS	TYPE OF WASTE	VOL OF WASTES
1 OIL SOLVENT P21		800	Y	NA	P	1	OIL SOLVENT	27 730 GAL
1 BUTYRAL		800	NE	NA	P	1	CLEANING TOWER CLEAN OUT WATER (COMPONENTS?)	UNKNTOWN VOL/LTR
1 10 FUEL OIL TANKS		800	NE	NA	P	1	ASBESTOS	UNKNTOWN VOL/LTR
CHEMICAL WASTE, NAHA		800	NE	NA	P	1	UNKNOW CHEMICALS	UNKNTOWN VOL/LTR
1 LIQUID BATTERY P1		800	NE	NA	P	1	UNKNOW LIQUID WASTES & CONTAMINATED JARS	UNKNTOWN VOL/LTR
1 FUEL OIL CLEAN O1		800	NE	NA	P	1	17 FUEL OIL	UNKNTOWN VOL/LTR
MULTIUSE SOLVENTS P11		800	NE	NA	P	1	UNKNOW SOLVENTS	UNKNTOWN VOL/LTR
2 CHEMICAL STORAGE		800	NE	NA	P	1	UNKNOW HALOGENATED WASTES	UNKNTOWN VOL/LTR
2 MULTIPLE SOLVENTS SPILLS P1		800	NE	NA	P	1	CARBON TETRACHLORIDE & TRICHLOROETHYLENE	UNKNTOWN VOL/LTR
2 MULTIPLE SOLVENTS SPILLS O2		800	NE	NA	P	1	UNKNOW SOLVENTS	UNKNTOWN VOL/LTR
2 MULTIPLE SOLVENTS SPILLS O3		800	NE	NA	P	1	POLYESTER RESIN FIBROUS CATALYST & CLEANING SOLVENTS	UNKNTOWN VOL/LTR
3 FIBERGLASS WASTE 2		400	NE	NA	P	1	UNKNOW HYDROCARBONS	UNKNTOWN VOL/LTR
4 FUEL OIL CLEAN 1		400	NE	NA	P	1	LITHIUM	UNKNTOWN VOL/LTR
5 LITHIUM METAL DESTRUCTION		400	NE	NA	P	1	HYDROXIDES & ALKALINES	UNKNTOWN VOL/LTR
5 CORROSIVE TOWER RESIDUE O1		400	NE	NA	P	1	CYANIDES & ALKALINES	UNKNTOWN VOL/LTR
5 CORROSIVE TOWER RESIDUE O2		400	NE	NA	P	1	CYANIDES & ALKALINES	UNKNTOWN VOL/LTR
4 COOLING TOWER RESIDUE O3		400	NE	NA	P	1	HYDROXIDES AND FLUORIDES	400 GAL
4 CASCADACTING SPILLS		999	16	NA	P	1	LITHIUM & UNKNOW NA ANODOUS WASTES	UNKNTOWN VOL/LTR
5 PESTICIDE METAL RESTORATION		999	16	NA	P	1	17 FUEL OIL	200 GAL
6 FUEL OIL CLEAN 1		820	NA	NA	NA	5	UNKNOW TYPE FUEL OIL POSSIBLY 12	1,100 GAL
6 FUEL OIL TANK SPILL		820	NA	NA	NA	5		

0017 00 Chen R Associates

CEANP NONRADIOACTIVE HAZARDOUS CHEMICAL WASTE SITES

ROCKY PLATS PLANT

TABLE M-1



ST-23 IMPROVED AND UNDESIRABLE WASTE ON CONTAMINATION SITES

NAME	S.F.	AREA SQS	DEPT	FRS	CLASS	TYPE OF WASTE	VOL OF WASTES
21) SOIL ON EXHAUSTION PUMPS							
2 WASTE 1	170	1	6	P	2	EFFLUENT, RESIDUAL PROCESSING WASTE SLUDGE	UNKNOWN VOLUME
2 WASTE 1 2	900	17	6	P	2	WASTEWATER, FERTILIZER, OIL & CARBON TETRACHLORIDE	12,000 CF
2 WASTE 1	900	17	6	P	2	SANITARY SEWER, URINATION & FLUTRIUM	UNKNOWN VOLUME
2 WASTE 1 4 10 1 1	900	17	6	P	2	URINATION, FLUTRIUM & SANITARY SEWER SLUDGE	UNKNOWN VOLUME
90, OPEN STORAGE AREA	900	17	6	P	2	URINATION, FERTILIZER, OIL & CARBON TETRACHLORIDE	UNKNOWN VOLUME
ROAD AREA	900	17	6	P	2	URINATION, FERTILIZER, OIL & CARBON TETRACHLORIDE	1,400 BARRIS
4 PRECIPIT LAMP TILL	15	5	5	P	2	URINATION, FLUTRIUM, URINATION ASH, SEWAGE & DEWILLUM	2 MILLION CF
4 PRECIPIT LAMP TILL	15	5	5	P	2	ADSORBED OIL WASTES	UNKNOWN VOLUME
5 SANITARY PROCESS WASTE LINDS	400	1	6	P	1	ATRIATES & POSSIBLE HAZARDOUS WASTE	UNKNOWN VOLUME
5 UNDESIRABLE CONCRETE TANKS	700	1	6	P	1	ATRIATES WASTES, FLUTRIUM, URINATION	UNKNOWN VOLUME
5 FACTORY WASTE STORAGE TANKS	700	1	6	P	1	URINATION, ORGANICS, OILS, DEWILLUM, JUNKS & WCL ACIDS	UNKNOWN VOLUME
WATER TANK 1 7	90	1	6	P	1	URINATION, FLUTRIUM, URINATION	100 GAL
WATER TANKS	700	1	6	P	1	URINATION, FLUTRIUM, URINATION	UNKNOWN VOLUME
PROCESS WASTE TANK	900	1	6	P	1	URINATION, FLUTRIUM, URINATION	UNKNOWN VOLUME
1 BIOLOGICAL WASTE LEAD	700	1	6	P	1	ATRIATES & FLUTRIUM	UNKNOWN VOLUME
5 65R PITS	700	1	6	P	1	RESIDUAL, URINATION, POSSIBLE URINATION & LITRIUM	70 CF
8 CORROSIVE WASTE PUMPS (2)	400	1	6	P	1	RESIDUAL, URINATION, POSSIBLE URINATION & LITRIUM	30,000 CF
8 SLUDGE DISTURBANCE	900	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
9 FERTILIZER PUMPS, A,B,C SECTIONS	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
9 OIL CONTROL	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
9 SANITARY WASTE LINE DUCT	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
1 CONCRETE PROCESS WASTE TANKS	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
10 PROCESS WASTE TANKS	800	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
10 WASTE SPILLS	100	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
10 FACTORY TANKS & SPILLS (B)	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
10 EFFLUENT PIPE	700	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME
10 OIL WASTE PIT 02	900	1	6	P	1	URINATION, URINATION, URINATION	10,000 CF
1 FACTORY BURN SITE	900	1	6	P	1	URINATION, URINATION, URINATION	UNKNOWN VOLUME





AERIAL PHOTOGRAPHY LIST

Singular Prints

- 1 1970. Rockwell International, Flight No. 14571-00
2. 1973 NASA/MSA, Flight No 29-0006
3. 1974 U S G S , Flight No 4-10275, Photo 1-2
- 4 1975. EG&G, Flight No 863-28
5. 1975 EG&G, Flight No 812-23
6. 1975 EG&G, Flight No 865-28
7. 1975 EG&G, Flight No 866, Lines IV, V, and VI
- 8 1975 EG&G, Flight No 859-20
9. 1975 EG&G, Flight No 864-28
10. 1975 EG&G, Unknown Flight No
- 11 1977 EG&G, Flight No 1251
- 12 1980 EG&G, Flight No 3293, Photo 009
13. 1980. Unknown Company, Unknown Flight No
14. 1984 Rockwell International, Flight No 31044-00
15. Three Photos With No Date, No Company Identification, or Flight/Photo No

Stereo Pairs

1. 1953 U S G S , Photo 6312 to 6314 and 6230 to 6232
2. 1963. U S G S , Flight No GS VAQC, Photo 2-7 to 2-9 and 2-47 to 2-49
3. 1971 U.S G S , Flight No GS VCUC, Photo 2-28 to 2-30, 2-87 to 2-90, and 2-103 to 2-105

REFERENCE LIST

1. Albuquerque Operations Office, Environment, Safety and Health Division, Environmental Programs Branch; April 1986; Comprehensive Environmental Assessment and Response Program, Phase 1: Installation Assessment, Rocky Flats Plant.
2. Dames and Moore; July 1981, Geologic and Seismologic Investigations for Rocky Flats Plant, Volumes 1, 2 and 3.
3. Hydro-Search, Inc.; December 1985; Hydrogeologic Characterization of the Rocky Flats Plant, Golden, Colorado.
4. Hydro-Search, Inc.; June 1986, Electromagnetic Survey, Rocky Flats Plant, Golden, Colorado
5. Rockwell International, Annual Environmental Monitoring Reports, 1975 through 1985, U.S. Department of Energy, Rocky Flats Plant, Golden, Colorado.
6. Rockwell International Facilities Engineering; April 1986; Rocky Flats Plant Site Utilities, Drawings 15501-1 through 15501-48.
7. Rockwell International; Ground-Water Monitoring Data, 1985-1986, Rocky Flats Plant.
8. Tracer Research Corporation; March 1986; Shallow Soil-Gas Investigation of Rocky Flats Plant, Golden, Colorado.
9. U.S. Department of Energy, April 1980; Final Environmental Impact Statement, Rocky Flats Plant Site, Golden, Jefferson County, Colorado, Volumes 1, 2 and 3.
10. U.S. Department of Energy, November 1985; Resource Conservation and Recovery Act, Part B Permit Application, Radioactive Mixed Waste, Volumes 1 and 2, Rocky Flats Plant, Golden, Colorado
11. R.F. Weston, Inc., May 1986; Underground Storage Tank Inventory

closure investigations      Modifications to the preliminary rankings, as a  
result of the ongoing studies, will be made as required

- > Volumes and types of waste.
- > Results of the electromagnetic survey and the soil-gas survey

Potential for contaminant migration was evaluated assuming the following relative contaminant mobilities in descending order of mobility.

- > Solvents
- > Petrochemicals
- > Metals
- > Radioactive Metals

Table IV presents the overall rankings for sixty-five potential sites at the Rocky Flats Plant. The highest priority categories, grouped by areas or type of waste, in descending order, are:

- > 207 Solar Evaporation Ponds
- > Sites present on the area of the 881 Hillside
- > Trench T-1, T-2, T-3 and T-4 to T-11 sites
- > 803 Drum Storage and Mound Sites
- > North and South Landfills

#### Qualifications to the Preliminary Rankings

The ranking within waste categories and the overall ranking are preliminary. Evaluation of the available information is continuing and additional information is being collected as part of the site characterization and

> Perceived health risks

Quantitative data was insufficient for many of the waste sites to develop an HRS and MHSR score. However, the attendees felt there was sufficient information on the waste management history of these sites to rank some of them higher than sites with HRS and MHSR scores. Some of the sites were grouped to simplify future investigations or were grouped based on similar waste histories.

The sites were divided into groups within the waste categories. No attempt was made to prioritize the sites within groups. Tables I, II and III present the results of the CEARP waste categories ranking. The radioactive sites total fourteen and are presented on Table I. The thirty-one radioactive and hazardous chemical sites are listed in Table II. The ranking of the twenty hazardous chemical sites is presented in Table III.

Overall Ranking and Prioritization

Factors used in the overall ranking, in descending order of importance, included

- > Evidence of existing contaminant releases based on available ground-water data
- > Mobility of the waste and perceived human health risks

categories assigned in the CEARP document. The three waste categories identified are radioactive wastes or contamination, radioactive and hazardous chemical wastes or contamination, and nonradioactive hazardous chemical wastes or contamination. The second stage combined the sites into a single overall ranking.

#### Elimination of Sites from Further Consideration

The assumptions were made for determining non-priority waste sites requiring no further evaluation. The first assumption was that all sites receiving a negative finding for FFSDIF, PA, and PSI during CEARP Phase I investigations could be eliminated from the ranking process. The second assumption was that all sites placed into CEARP Phase 4 or CEARP Phase 5 would only require compliance and verification monitoring. These sites were placed at the bottom of the rankings.

#### Waste Categories Ranking

Factors used in the waste categories ranking included.

- 1. Volumes and types of waste
- 2. Knowledge of Messrs Greengard, Hornbacher and Rea concerning the history of the site
- 3. Results of the electromagnetic survey, the soil-gas investigation and available ground-water quality data

Sites that are currently undergoing remedial activity were placed into CEARP Phase 4 (Remedial Action) which encompasses the requirements of the DOE CERCLA Order (Phase IV) and the remedial implementation program elements of EPA CERCLA (Design and Action). Sites that had already undergone remedial measures were placed into CEARP Phase 5 (Compliance and Verification) which encompasses the requirements of the DOE CERCLA Order Phase V and EPA CERCLA final site inspection/closeout and monitoring

#### PRIORITIZATION METHODOLOGY AND RANKING

A project meeting was held on July 1, 1986, to discuss the information assimilated in the review of available information and to prioritize the waste sites. Those in attendance at the meeting were

W. Greengard	Rockwell International
B. Hornbacher	Rockwell International (part-time)
L. Rea	Los Alamos National Laboratory
R. Anderson	R.F. Weston (part-time)
D. Jobenville	Chen & Associates
G. Franz	Chen & Associates
S. Paschke	Hydro-Search, Inc

Upon completion of discussions concerning the available information, the attendees conducted a preliminary ranking of the sites. The ranking was conducted in two stages. The first stage ranked the sites within their waste

releases which, because of its stability, no longer persists in the environment.

Consequently, sites at the Rocky Flats Plant that no longer posed a threat of release were not included in the HRS and DOE-Modified HRS (MHRS). This procedure was consistent with the guidance provided to federal facilities by EPA (Federal Facility Program Manual for Implementing CERCLA Responsibilities of Federal Agencies, final draft)

Sites that required HRS evaluation were scored as follows (1) nonradioactive sites were scored with the HRS and (2) radioactive sites were scored with the HRS and MHRS. Sites meeting EPA criteria to be listed on the National Priorities List (NPL) were recommended for future action under DOE <sup>CEARP</sup> Phase II to quantify the potential migration problem DOE <sup>CEARP</sup> CERCLA Phase II activities are consistent with EPA CERCLA requirements. Sites that did not meet EPA criteria for listing on the NPL but exceeded other applicable DOE remedial action criteria/guidelines (e.g. guidelines for the DOE Surplus Facilities Management Program) and/or sites posing potential regulatory compliance concerns (e.g. RCRA-related remedial activities) were also recommended for future action under CEARP. No further action was recommended for those sites not meeting these criteria.

A preliminary site location map, which was developed upon completion of the review, is presented on Fig 1

#### CEARP SITE EVALUATION

During CEARP Phase I Installation Assessment, all potential waste sites identified at Rocky Flats were evaluated in compliance with DOE Order 5480 14 (CERCLA Implementation) for the following EPA CERCLA activities

- > Federal Facility Site Discovery and Identification Findings (FFSDIF) - notification of newly discovered sites, including notification of negative findings
- > Preliminary Assessment (PA)
- > Site Inspection (SI)
- > Hazard Ranking System (HRS) and Modified Hazard Ranking System (MHRS) evaluation

Sites at the Rocky Flats Plant were recommended for no further action when CEARP evaluations indicated

- 3 (1) Negative findings for the FFSDIF process A negative finding was assigned for potential sites that were found not to exist or for spills that were completely removed in the past through verified remedial action
- 2 (2) Sites initially requiring notification for the FFSDIF process which were later found to pose no threat of release under CEARP for the PA process Potential sites in this category had hazardous substance

## INTRODUCTION

This report presents the results of a preliminary prioritization of the potential waste sites listed in Section V.A. of the Comprehensive Environmental Assessment and Response Program (CEARP), Phase I. Installation Assessment, Rocky Flats Plant<sup>(1)</sup>. The study was initiated by reviewing published reports and historical aerial photographs. The data compiled from this effort was used to develop a ranking for the purpose of establishing which sites should be initially characterized by additional field investigations

## REVIEW OF AVAILABLE INFORMATION

The review of available information was conducted to gather data on the potential sites. The review consisted of

- 1 - Analysis of Aerial Photographs<sup>(2)</sup>
- 2 - Study of Published Documents<sup>(3)</sup>
- 3 - Review of Hydrogeologic Study by Hydro-Search, Inc.<sup>(3)</sup>
- 4 - Review of an Electromagnetic Survey by Hydro-Search, Inc.<sup>(3)</sup>
- 5 - Review of a Soil-Gas Investigation by Tracer Research Corporation<sup>(3)</sup>

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(1) See Attached Reference List  
(2) See Attached Aerial Photograph List  
(3) See Attached Reference List

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**DRAFT**

**U.S. DEPARTMENT OF ENERGY  
ROCKY FLATS PLANT  
GOLDEN, COLORADO  
JULY 21, 1986**

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**APPENDIX A**

**DRAFT**

**PRELIMINARY PRIORITIZATION OF SITES**

**U.S. DEPARTMENT OF ENERGY  
ROCKY FLATS PLANT  
GOLDEN, COLORADO  
JULY 21, 1986**

**ROCKWELL INTERNATIONAL  
NORTH AMERICAN SPACE OPERATIONS  
ROCKY FLATS PLANT**

### 3 REFERENCES

DOE 1986 "Draft Preliminary Prioritization of Sites," U.S. Department of Energy, Rocky Flats Plant, Golden, Colo, July 2, 1986

Table 2.4 (continued)

Location	Priority	Phase	Score	Rank	Remarks	Planned Future Action
Frequency Log/111 Original Phase Site	5	Positive	34	5	Remedial Investigation	Confirmation (Phase 11)
Rad sites (2) (800) Area	11	Positive	20	0	None	Confirmation (Phase 11)
Cooling Tower Ponds (400 Area)	13	Positive	12	NE	None	Confirmation (Phase 11)
Lithium Metal Destruction Site (300 Area)	13	Positive	8	NA	None	Confirmation (Phase 11)
Reactive Metal Destruction Site (400 Area)	13	Positive	16	NA	None	Confirmation (Phase 11)

\*From the Draft Preliminary Prioritization of Sites, U S Department of Energy, Rocky Flats Plant, unnumbered report, July 21, 1986  
 Federal Facility Site Inventory and Identification/Region Findings/Preliminary Assessments/Preliminary Site Inspections  
 EPA Hazard Ranking System/Modified Hazard Ranking System  
 Comprehensive Environmental Assessment and Response Program/Comprehensive Environmental Response, Compensation, and Liability Act  
 Not Applicable  
 Not Evaluated

EPA CERCLA  
 Program Element  
 CERCLA Order Phase

Table 2.4 Potentially CERCLA Sites Identified During CEARP Phase I Requiring CEARP Phase 2 Site Characterization

Site	Characterization Priority Level	DOE CEARP Phase 1		EPA CERCLA Program Element	Planned Future Action
		FFSDIF/PA/PSI <sup>a</sup> Finding	HRS <sup>b</sup> Score		
VOCs in Groundwater	NA	Positive	40	NA	Remedial Investigation Confirmation (Phase II)
207 Solar Evaporation Ponds (900 Area)	1	Positive	46	7	Remedial Investigation Confirmation (Phase II)
Oil Sludge Pit (800 Area)	2	Positive	9	NA	None Confirmation (Phase II)
Trench T 1 (900 Area)	3	Positive	17	6	None Confirmation (Phase II)
Trench T 2 (900 Area)	3	Positive	17	6	None Confirmation (Phase II)
Trench T 3 (900 Area)	3	Positive	17	6	None Confirmation (Phase II)
Trenches T 4 to T 11 (900 Area)	3	Positive	17	6	None Confirmation (Phase II)
903 Drum Storage Area (900 Area)	4	Positive	26	1	None Confirmation (Phase II)
Original Landfill Original Plant Site	5	Positive	15	5	None Confirmation (Phase II)

Site ID	Location	Priority	EPA CERCLA		Remedial Investigation	Planned Future Action
			Score	Score		
Germp Metal Sites (2) (500 Area)		NA	Negative	NA	None	None
VOCs in Groundwater		NA	Positive	40	NA	Remedial Investigation Confirmation (Phase II)

From the Office of Environmental Prioritization of Sites, U.S. Department of Energy, Rocky Flats Plant, unnumbered report, July 21, 1986  
 Federal Facility Site Inventory and Identification Findings/Preliminary Assessments/Preliminary Site Inspections  
 EPA Hazard Ranking System/RCRA Modified Hazard Ranking System  
 Comprehensive Environmental Assessment and Response Program/Comprehensive Environmental Response, Compensation, and Liability Act  
 Not Evaluated  
 Not Applicable

Table 2.3 (Continued)

Finding	Characterization Priority Level#	Finding	Phase I		Planned Future Action	
			MRS <sup>b</sup> Score	MRS <sup>b</sup> Score	EPA CERCLA Program Element	DOE CEAMP/CERCLA <sup>c</sup> Order Phase
Hydrogen Peroxide Spill (400 Area)	NA	Negative	NA	NA	None	None
Multiple Solvent Spills (400 Area)	6	Positive	NE	NA	None	Installation Assessment (Phase I Supplemental)
Multiple Solvent Spills (700 Area)	6	Positive	NE	NA	None	Installation Assessment (Phase I Supplemental)
Multiple Solvent Spills (900 Area)	6	Positive	NE	NA	None	Installation Assessment (Phase I Supplemental)
Antifreeze Discharge Original Plant Site	Discharge	Negative	NA	NA	None	None
Steam Condensate Leak (700 Area)	Leak	Negative	NA	NA	None	None
Steam Condensate Leak (700 Area)	Leak	Negative	NA	NA	None	None
Nickel Carbonyl Disposal Original Plant Site	Inactive/ Covered	Negative	NA	NA	None	None
Water Treatment Plant Backwash Pond (100 Area)	Inactive	Negative	NA	NA	None	None

SYNOPSIS

Site	Location	Priority Level	Phase I		Planned Future Action
			NEB Score	MMSB Score	
Fiberblasting site (2) (800 Area)		7	Positive	NE NA	None
Liquid Dumping (800 Area)		2	Positive	NE NA	None
Chemical Burial (800 Area)		2	Positive	NE NA	None
Outfall (800 Area)		2	Positive	NE NA	None
Out of Service Fuel Tanks (800 Area)		2	Positive	NE NA	None
Acid Leaks (2) (400 Area)		NA	Negative	NA NA	None
Acid Leak (300 Area)		NA	Negative	NA NA	None
Multiple Acid Spills (800 Area)		NA	Negative	NA NA	None
Caustic/ Acid Spills (700 Area)		13	Positive	NE NE	None
Caustic Leak (400 Area)		NA	Negative	NA NA	None

EPA CERCLA  
Program Element  
DOE  
CEAR/CERCLA Order Phase

Installation Assessment  
(Phase I, Supplemental)

None

None

Installation Assessment  
(Phase I, Supplemental)

None