

NEIC

EPA-330/1-88-004

**UPDATED MULTI-MEDIA PRIORITY RANKING
OF SELECTED FEDERAL FACILITIES**

REGION VIII

April 1988

National Enforcement Investigations Center, Denver

U.S. Environmental Protection Agency



Office of Enforcement

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF ENFORCEMENT AND COMPLIANCE MONITORING

EPA-330/1-88-004

**UPDATED MULTI-MEDIA PRIORITY RANKING
OF SELECTED FEDERAL FACILITIES**

REGION VIII

April 1988

Joel K. Mattern

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER
Denver, Colorado

CONTENTS

INTRODUCTION	1
METHODS	3
HAZARDOUS WASTE MANAGEMENT (RCRA).....	4
SITE CONTAMINATION (CERCLA)	6
WASTEWATER DISCHARGES (CWA)	8
POLYCHLORINATED BIPHENYL (PCB) STORAGE AND USE (TSCA)	9
AIR EMISSIONS (CAA)	9
SAFE DRINKING WATER ACT (SDWA).....	10
RESULTS.....	11
TABLES	
1 Facility Rating Criteria.....	5
2 Facility Ratings (by ranking).....	12
3 Facility Ratings (by State).....	16

INTRODUCTION

The National Enforcement Investigations Center (NEIC), in 1984, at the request of EPA Region VIII, ranked selected Federal facilities according to their relative potential for having environmental problems.* These facilities were ranked with a Multi-Media Priority Ranking Model,** developed by NEIC using available information from the various EPA databases and Region files. The Region used the 1984 rankings as a management tool to help target facility inspections. Because of changing priorities and the availability of new information Region VIII, in January, requested that NEIC update the 1984 report.

Facilities were ranked according to the type and magnitude of activities in the various media which actually, or could potentially, result in environmental contamination. These activities include past and present hazardous waste*** generation and management, handling and storage of hazardous and toxic materials, wastewater discharges and air emissions. In keeping with agency priorities, emphasis was placed on the potential environmental problems associated with hazardous waste management activities.

To ensure consistent ratings, only available information for all or most installations was used to rank the facilities. The major information sources used were the various EPA computer databases and Region file data. Because site inspection reports were available for only a few facilities, information of this type was not used in the ranking process. In addition, facility compliance data was not used because of the dynamic nature of such information.†

It should be noted that the ranking model does not compare a facility rating with any fixed number to indicate whether a facility is environmentally "good" or "bad." Rather, the rating provides an indication of whether that facility

* Environmental problems, as generally used here, are directly related to the release of contaminants to the environment.

** EPA 330/1-84-003, "Multi-Media Priority Ranking of Selected Federal Facilities, Region VIII," September 1984

*** As defined in 40 CFR 261

† Specific facility information and recent compliance data would be used as part of the detailed followup evaluation of a facility, if warranted.

has the potential, relative to other installations, for having major environmental problems (i.e., the higher the rating the greater the potential for environmental problems). Thus, a high rating indicates that a facility has a high potential for environmental problems and further evaluation is warranted.

METHODS

All of the Federal facilities rated in the original 1984 report were ranked using the updated information. These facilities were originally chosen by Region VIII from an initial listing of Federal facilities, generated from EPA's computerized Facilities Index System (FINDS). The FINDS list contained approximately 175 Federal installations with: (1) known or suspected hazardous waste disposal sites (active and inactive), (2) Resource Conservation and Recovery Act (RCRA) permit application or permits on file with EPA, (3) National Pollutant Discharge Elimination System (NPDES) permits and/or (4) air emission point sources. Of these, the Region selected 41 for prioritization.*

Selected facilities were ranked based on the type and level of activity in the following six categories:

- Hazardous waste management
- Site contamination (known and potential)
- Wastewater discharges
- Polychlorinated biphenyls (PCBs) storage and use
- Air emissions
- Drinking water supplies

The above categories generally reflect activities regulated by one or more of six environmental statutes: Resource Conservation and Recovery Act (RCRA), Comprehensive Environmental Response Compensation and Liability Act (CERCLA), Clean Water Act (CWA), Toxic Substances Control Act (TSCA), the Clean Air Act (CAA) and the Safe Drinking Water Act (SDWA), respectively. An explanation on how facilities were ranked in each category follows.

* *Three facilities not rated in the initial evaluation were added by Region VIII to the updated version because of increased awareness of activities at these facilities.*

HAZARDOUS WASTE MANAGEMENT (RCRA)

This category ranks facilities according to the potential for environmental contamination through generation and handling of hazardous waste. For rating purposes, the category was divided into four activity subcategories: (1) Annual quantity of hazardous waste generated, (2) waste storage design capacity, (3) waste treatment design capacity and (4) waste disposal design capacity. These general subcategories were used because of the type of information readily available and the wide range and levels of hazardous waste management activities.

The major information source used for this category was the EPA Hazardous Waste Data Management System (HWDMS), a computer database which includes information submitted to EPA by hazardous waste generation/handling facilities in RCRA Part A and/or Part B permit applications. The data includes the type and quantity of hazardous wastes generated, the types of hazardous waste handling activity and the design capacity of waste processes. Information was obtained from Regional RCRA files when the computer database was incomplete.

The minimum rating for any facility generating hazardous waste is 3 [Table 1]. This accounts for activities involving actual generation and any short term or small quantity handling of waste. Generating facilities with RCRA storage, treatment or disposal activities were rated according to the relative level of activity in each subcategory. An additional rating point was assigned to all these facilities to account for potential problems involved in the actual waste generating process(es). Also, facilities which treat, store or dispose of hazardous waste in a surface impoundment were assigned an additional subcategory rating point due to enhanced contamination potential attributed to the use of impoundments.

Table 1
FACILITY RATING CRITERIA

Rating	Hazardous Waste Management ¹					Site Contamination		
	Quantity Generated (m tons/Year)	Storage Capacity (gal.)	Treatment Capacity (gal./day)	Disposal Capacity Landfill (acres-ft)	Disposal Capacity Land Application (acres)	Seriousness	Soil/Water Contamination	Bulk Storage of Hazardous Material
0	0	0	0	0	0	No ²	No ²	No ²
1	<12	<10,000	<1,000	-	-	-	-	-
2	12-50	10,000-100,000	1,000-50,000	-	-	Low	Potential or suspected ³	Known
3	50-500	>100,000	>50,000	<5	<10	Medium or unknown	-	-
4	500-50,000	-	-	≥5	≥10	High	-	-
5	>50,000	-	-	-	-	NPL ⁴	Known ⁵	-

Rating	Wastewater Discharges ⁶			Toxic Substances	Air Emissions			Water Supplies
	Flow Rate (mgd)	SIC ⁷ Toxicity Group	Toxic Discharge	PCB Use	Number of Criteria Pollutants ⁸ Discharged at ≥100 Tons Per Year	Discharge to Nonattainment Areas	Suspected Hazardous Air Pollutant ⁹ Discharges	No of Persons Supplied
0	No ²	<3	No ²	No ²	No ²	No ²	No ²	No ²
1	-	-	-	-	0 ¹⁰	-	-	<1000
2	<0.5	-	Suspected ³	Suspected ³	1	-	-	≥1000
3	0.5-1.5	≥3	Known	-	2	1 ¹¹	-	-
4	1.5-2.5	-	-	Known	>2	2 ¹²	Yes	-
5	>2.5	-	-	-	-	>2	-	-

1. The minimum rating for any facility generating hazardous waste, regardless of any storage, treatment or disposal activities is 3. Facilities with RCRA storage, treatment and/or disposal activities are assigned subcategory ratings, as indicated in the table. An additional point is added to all these facilities if they are also generators (see text). Facilities which treat, store or dispose of hazardous waste in a surface impoundment are assigned an additional point (see text).
2. No = No known or suspected activity in this activity category or subcategory.
3. Suspected means that information suggests nonspecific activity in the subcategory.
4. NPL means the facility is listed or has been proposed for listing on the National Priorities List.
5. Facilities with known or potential contamination of drinking water supplies are assigned two additional rating points (total of 7).
6. Includes known discharges to municipal wastewater treatment plants.
7. SIC Toxicity Group [a number from 1 (lowest) to 5 (highest)] is an indication of potentially harmful health effects related to a specific Standard Industrial Classification (SIC) code (see text).
8. As defined in 40 CFR 50.
9. Hazardous air pollutant (40 CFR 61) emission sources with or without other air sources.
10. Facility has point source emissions but does not have the potential to discharge at ≥100 tons per year per pollutant.
11. Facility discharges one nonattainment pollutant in nonattainment area for that pollutant.
12. Facility discharges two nonattainment pollutants in nonattainment area for those pollutants.

Subcategory ratings and any additional rating points were combined to provide the overall facility rating for "Hazardous Waste Management" [Table 2 (overall facility ranking) and Table 3 (facility ranking within each state)]. For example, a facility generating 12 metric tons of hazardous waste annually, having 10,000 gallons of container storage capacity and 1,000 gallons per day tank treatment capacity would, using the rating criteria [Table 1], receive 2 rating points for waste quantity generated, 2 points for storage, 2 points for treatment and 1 point for being a waste generator [Table 1, footnote 1] or 7 points total for hazardous waste management. This ranking indicates the relative potential to contaminate the environment through hazardous waste management.

SITE CONTAMINATION (INCLUDING CERCLA)

This category ranks facilities according to the actual, suspected or potential for site contamination from either past operations or the present bulk storage of hazardous materials (acids, fuel oil, gasoline, etc).^{*} The category is divided into three activity subcategories: (1) Seriousness of site contamination problems, (2) contamination of soil and water, and (3) bulk storage of hazardous materials.

Information was obtained from the following EPA computer databases: FINDS, Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS), Compliance Data System (CDS) and the Federal Facility Compliance Docket. Regional file information supplemented this data. FINDS lists all known or suspected facility sites which were contaminated from past activities. CERCLIS tracks these sites and identifies those which are proposed for, or listed on, the National Priority List (NPL). Regional files contain reports of any EPA/State or Department of Defense site investigations (such as preliminary assessments) for the suspected CERCLA sites. Preliminary assessment and Installation Restoration Program reports rate the "seriousness" of site problems as low, medium or high and, if known, indicate the type of site contamination (soil, water). CDS lists installations with

^{*} *Even though the handling of bulk quantities of hazardous materials may not be covered under CERCLA, it is included here because of its potential for site contamination.*

bulk storage facilities for hazardous materials (fuel oil, gasoline) through its inventory of volatile organic air emissions.

Rating points were assigned to each facility for activity in each of the three subcategories using Table 1. Facilities with known contamination of drinking water supplies were assigned two additional rating points. The sum of these ratings is the facility's overall rating for "Site Contamination" and is presented in Tables 2 and 3. An overall rating of 2 indicates that there is no known or suspected site contamination, but there is the potential for contamination due to onsite bulk storage of hazardous materials.

The files did not contain the results of preliminary assessments or other site evaluations for all facilities with known or suspected* site contamination. Subcategory ratings of 3 for "seriousness" and 2 for "soil/water contamination" were assigned to such facilities with limited or no specific site information to account for the unknown potential for problems in these subcategories [Table 1].

Subcategory rating criteria under the Site Contamination category were modified somewhat from the original model. Facilities with known soil/water contamination were rated higher in this updated model than in the original, especially if drinking water supplies are known to be or are potentially contaminated [Table 1]. Facilities listed or proposed for listing on the NPL were identified and received 5 rating points under the "seriousness" subcategory in the updated model. Also, facilities with bulk storage of hazardous material received two rating points rather than one (in the original model), to reflect Agency concerns regarding leaking tanks.

WASTEWATER DISCHARGES (CWA)

This category rates facilities according to the actual or potential impacts of wastewater discharges into receiving waters. The three subcategories used to rate facility activity in this category were: (1) Average daily flow rate; (2) the

* Known or suspected as a result of being included in the CERCLIS computer database.

Standard Industrial Classification (SIC)* code for the facility's waste generating activities and general wastewater type (industrial, sanitary or both) and (3) suspected discharge of toxic wastewater.

Information on the type and flow rate of wastewater discharges was obtained from the Permit Compliance System (PCS) and Regional NPDES files. SIC codes and toxic discharge information for each facility were taken from the EPA computer systems and Regional files. SIC codes were used to assign each facility to a SIC toxicity group. Each SIC toxicity group from 1 (lowest) to 5 (highest) correlates to the potential for harmful effects from wastewater discharges from a specific industry (as identified by the SIC code). The SIC Code/Toxic Pollutant Discharge Potential component of the NPDES permit ranking system, used by EPA nationally to classify dischargers as "major" or "minor," was used to assign Toxicity Group Numbers to the wastewater discharge facilities ranked here.

In cases where SIC codes were not readily available for installations rated, Regional file information regarding facility operations and waste generation was used to determine an appropriate Toxicity Group Number. Toxicity Group Numbers were used to help characterize wastewater discharge in lieu of specific information regarding wastewater characteristics. Also, facilities known or suspected of discharging toxic wastewater were assigned additional rating points. Flow rates, general wastewater type, Toxicity Group Number and suspected discharge of toxic wastewater were used with Table 1 to assign ratings to each facility in each subcategory. Subcategory ratings were totaled to obtain the wastewater discharge ratings presented for each facility in Tables 2 and 3.

The rating for wastewater discharges in this updated model was modified from the original one. All wastewater discharges, direct and those tied to municipal treatment facilities, were rated in the updated model. Also, potential problems, as a result of the quality of the discharges (i.e., toxicity), are assigned additional weight by the addition of a "toxicity discharge" subcategory and by

* The SIC code is a number which describes an industry by the type of activity in which it is engaged.

assigning facilities with a SIC Toxicity Group Number of 3 or greater, 3 points for this subcategory.

POLYCHLORINATED BIPHENYL (PCB) STORAGE AND USE (TSCA)

This category rates facilities according to information regarding use of PCBs. Information to identify facilities storing/using these compounds was obtained through all possible sources including, HWDMS, FINDS and Regional files (including the Federal Facilities Compliance Profiles). Facilities were rated according to Table 1. Department of Defense facilities with no specific information regarding PCBs were assigned a rating point of 2 for this category. This is because general information indicates that most military installations handle PCBs and, therefore, PCB use is "suspected." Category ratings for each facility are presented in Tables 2 and 3.

This category was changed from "PCB/Pesticide Storage and Use" in the original model to just "PCB Storage/Use" for this updated model. This is because more specific information on PCB use is now available. Also, facilities with known PCB use were assessed a rating point of 4 rather than 3, as per the original rating scheme. This was provided to address Regional concern about PCB contamination and their experience showing problems with PCB handling at federal facilities.

AIR EMISSIONS (CAA)

This category rates facilities according to: (1) The number of criteria air pollutants (particulates, nitrous oxides, sulfur oxides, carbon monoxide and volatile organic carbon) emitted through point sources; (2) emissions of hazardous pollutants and (3) emission of pollutants into areas of nonattainment, as shown in Table 1. The 100-tons-per-year rate for criteria air pollutants was used in the rating because that is the emission rate normally used to differentiate between major and minor point air emission sources. Facilities which do not have the potential to emit any criteria pollutants at greater than or equal to 100 tons per year were given a ranking of 1 for that subcategory. Additional ranking points were assigned facilities which emit nonattainment pollutants into nonattainment air quality control regions and/or discharge

hazardous air pollutants. No attempt was made to incorporate fugitive emissions into the rating system.

Information on emission rates was obtained from the Compliance Data System (CDS), an EPA computer database containing information on permitted point air emission sources and Regional files. Facilities were rated quantitatively according to Table 1. Results for each facility are presented in Tables 2 and 3.

The updated model expands and refines the criteria for rating air emissions of each facility from the original model to address heightened EPA concerns over such emissions. Subcategories for suspected discharge of hazardous air pollutants (as defined in 40 CFR 61) and "discharge to nonattainment areas" were added to put more emphasis on air emissions.

SAFE DRINKING WATER ACT (SDWA)

This category rates a facility's potential impact according to: (1) Whether it handles its own drinking water supplies and (2) the size of the population served by the facility. Information was obtained from the Federal Reporting Data System (FRDS), Public Water Source data and the Federal Facilities Environmental Compliance Profiles. Table 1 identifies how the rating points were assigned. This category was added to reflect concern about potential environmental problems associated with handling of drinking water supplies.

RESULTS

The selected Federal facilities were ranked in decreasing order of their overall potential for environmental problems [Table 2]. These same facilities were also segregated by State and ranked in decreasing order of potential environmental problems [Table 3]. The rankings are not only useful in identifying the facilities with the highest potential for environmental problems, but also show those activities which need to be emphasized during inspections.

As previously stated, the facility rating was not designed to be compared to a fixed number to indicate whether an installation is environmentally "good" or "bad." Rather, the rating provides an indication of whether that facility has the potential, relative to other installations, for having major environmental problems. A high total rating indicates that, based on the type and level of onsite activities, a facility has a high probability of having environmental problems. It also indicates a more detailed evaluation of the facility is warranted.

This ranking only provides an initial evaluation of the selected facility, based on available information, and should be supplemented by a more detailed analysis of Regional files which includes a review of compliance status prior to any onsite investigations.

Table 2

FACILITY RATING BY RANKING
(1984 Ratings in Parentheses)

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
CO5210020769	ROCKY MOUNTAIN ARSENAL North of Stapleton Airport Commerce City, CO	15 (13)	14 * (8)	5 (4)	4 (3)	0	7 (0)	45 (28)
UT0571724350	HILL AIR FORCE BASE 2849 AFB/DEEXX Hill AFB, UT	11 (10)	14 * (9)	6 (4)	4 (2)	2	8 (2)	45 (27)
ND4571924758	MINOT AIR FORCE BASE Facility 1982 Minot, ND	12 (10)	12 * (6)	6 (1)	4 (2)	2	9 (1)	45 (20)
CO7890010526	US DOE ROCKY FLATS PLANT 16 miles NW of Denver Golden, CO	13 (3)	14 * (5)	6 (3)	4 (2)	2	5 (1)	44 (14)
CO8213820725	PUEBLO DEPOT - US ARMY 3/4 mile NE of Hwy 50 Pueblo, CO	12 (9)	12 * (7)	7 (2)	4 (2)	2	7 (2)	44 (22)
CO2210020150	FORT CARSON DFAE, Bldg. 304, AFIC Fort Carson, CO	8 (7)	12 * (6)	10 (4)	4 (2)	2	6 (1)	42 (20)
UT5210090002 UT3213820894	TOOELE ARMY DEPOT State Hwy 36 Tooele, UT	11 (11)	14 * (8)	5 (0)	4 (2)	2	3 (2)	39 (23)
CO1571524130	LOWRY AIR FORCE BASE 6th and Quebec Denver, CO	9 (3)	9 * (6)	7 (0)	4 (2)	0	6 (1)	35 (12)
SD2571924644	ELLSMORTH AIR FORCE BASE 44 CSB/SAC Rapid City, SD	7 (6)	12 * (6)	6 (4)	4 (2)	2	4 (1)	35 (19)
UT0570090001	UTAH TEST & TRAINING RANGE 7 miles SE of Wendover Wendover, UT	14 (13)	10 * (5)	2 (0)	4 (2)	2	0 (0)	32 (20)
UT4570026233	AIR FORCE PLANT 78 30 miles NW on Rt. 83 Brigham City, UT	4 (NR)	10 * (NR)	6 (NR)	4 (NR)	2	6 (NR)	32 (NR)

Table 2 (cont.)

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
MT6571924556	MALMSTROM AIR FORCE BASE Facility 1501 Perim. Great Falls, MT	4 (3)	10 * (6)	5 (0)	4 (2)	0	8 (2)	31 (13)
UT3750211259	DUGWAY PROVING GROUNDS 45 miles W of Tooele Dugway, UT	4 (3)	12 * (1)	5 (0)	4 (2)	2	4 (1)	31 (7)
UT9210020922 UT7971549855	OGDEN DEFENSE DEPOT - DOD DLA 500 West 12th Street Ogden, UT	3 (3)	14 * (6)	2 (0)	4 (0)	2	6 (1)	31 (10)
CO-572025537	PJKS PLANT (AIR FORCE) 12250 South CO Hwy 75 Littleton, CO	3 (NR)	11 (NR)	5 (NR)	4 (NR)	1	6 (NR)	30 (NR)
WY5571924179	WARREN AIR FORCE BASE Warren AFB Cheyenne, WY	4 (3)	12 * (1)	5 (1)	4 (2)	2	3 (2)	30 (9)
CO9571924191	PETERSON AIR FORCE BASE Peterson AFB Colorado Springs, CO	6 (3)	10 * (6)	5 (0)	4 (2)	0	5 (1)	30 (12)
CO8572924928	US AIR FORCE ACADEMY 10 miles N of Colorado Springs Colorado Springs, CO	3 (3)	10 * (0)	7 (1)	4 (2)	0	6 (2)	30 (8)
ND3571924759	GRAND FORKS AIR FORCE BASE Grand Forks AFB Grand Forks, ND	5 (4)	12 * (6)	5 (3)	4 (2)	2	1 (2)	29 (17)
CO9570025644	BUCKLEY ANG BASE Buckley ANG Base Aurora, CO	3 (3)	12 * (1)	2 (0)	4 (2)	0	6 (1)	27 (7)
ND0971528807 ND0971528836	GRAND FORKS DFSP - USDOO DLA Grand Forks AFB, 42 N Grand Forks, ND	3 (3)	10 * (5)	5 (2)	2 (0)	0	0 (0)	20 (10)
CO8211620333 CO2210020333	FITZSIMONS ARMY MEDICAL CENTER Colfax and Peoria Aurora, CO	3 (3)	6 * (5)	2 (1)	4 (2)	0	5 (1)	20 (12)

Table 2 (cont.)

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
CO7572025719	NORAD - CHEYENNE MOUNTAIN AFS 2221 East Bijou - Colorado Springs, CO	3 (NR)	8 (NR)	2 (NR)	4 (NR)	0	1 (NR)	18 (NR)
ND9210022779	MISSILE EARLY WARNING STATION Det 1 57 AD/DE Concrete, ND	5 (3)	5 (5)	2 (0)	4 (2)	1	1 (0)	18 (10)
CO6470000500 CO4690090010	DENVER FEDERAL CENTER 6th and Kipling Denver, CO	3 (3)	5 (5)	0 (0)	4 (2)	0	5 (0)	17 (10)
CO2142306966	US BUREAU OF RECLAMATION Leadville Dr. Tunnel Leadville, CO	0 (0)	5 (5)	8 (5)	4 (0)	0	0 (0)	17 (10)
SD2360010282	VA HOSPITAL - HOT SPRINGS 5th St., Sec. 13-T7S-R Hot Springs, SD	0 (0)	10 * (5)	0 (0)	4 (2)	1	1 (1)	16 (8)
CO5245153411	USBOR - WATER & POWER RES SERV 910 Van Buren Loveland, CO	4 (3)	4 (0)	2 (0)	4 (0)	0	0 (0)	14 (3)
SD6640090035	TVA SILVER KING MINES US Highway 18 Edgemont, SD	3 (3)	9 (5)	0 (0)	0 (0)	0	0 (0)	12 (8)
UT8570025561	LITTLE MOUNTAIN TEST ANNEX 900 South 10800 West Ogden, UT	0 (0)	7 * (5)	0 (0)	4 (2)	0	0 (0)	11 (7)
CO4890000017	SOLAR ENERGY RESCH INSTITUTE 1617 Cole Blvd. Golden, CO	3 (3)	5 (5)	2 (0)	0 (0)	0	1 (0)	11 (8)
WY7360010329	VA MEDICAL CENTER - SHERIDAN Fort RD Sheridan, WY	3 (0)	4 (0)	0 (0)	2 (2)	1	1 (1)	11 (3)
CO9890031876	ANVIL POINTS OIL SHALE FAC 8 miles West of Rifle Rifle, CO	3 (3)	5 (1)	0 (0)	2 (0)	0	0 (0)	10 (4)
WY3890090001	WAPA - CASPER FIELD BRANCH West of Mt. View Mills, WY	3 (3)	5 (5)	0 (0)	2 (0)	0	0 (0)	10 (8)

Table 2 (cont.)

15

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
CO9131505175	NATIONAL BUREAU OF STANDARDS 325 Broadway Boulder, CO	3 (3)	0 (0)	2 (0)	4 (2)	0	0 (0)	9 (5)
CO3490016042	NATL CTR FOR ATMOSPHERIC RESCH 1850 Table Mesa Dr. Boulder, CO	3 (3)	0 (0)	2 (0)	4 (2)	0	0 (0)	9 (5)
CO9890090005	WAPA - POWER OPERATIONS 1800 South Rio Grande Montrose, CO	4 (4)	0 (0)	0 (0)	4 (0)	0	0 (0)	8 (4)
WY1890031874 WY1890031873	WESTERN RESEARCH INST - UWYRC 9th and Lewis Streets Laramie, WY	3 (3)	5 (5)	0 (0)	0 (0)	0	0 (0)	8 (8)
CO8890090006	WAPA - BRUSH FIELD BRANCH 17532 Hwy 71 Brush, CO	3 (3)	0 (0)	0 (0)	4 (2)	0	0 (0)	7 (5)
CO1890090003	WAPA - KREMMLING LINES SC 13 miles South on Hwy 9 Kremmling, CO	3 (3)	0 (0)	0 (0)	4 (0)	0	0 (0)	7 (3)
ND5120514687	METABOLISM & RADIATION RES LAB 1604 College Street Fargo, ND	3 (3)	4 (5)	0 (0)	0 (0)	0	0 (0)	7 (8)
SD1890090029	WAPA - WATERTOWN SUBSTATION 1 mile East of I-29 Watertown, SD	3 (3)	0 (5)	0 (0)	4 (0)	0	0 (0)	7 (8)
SD6140000021	USGS - EROS DATA CENTER 1000 Pecory Way Garretson, SD	0 (0)	0 (5)	6 (4)	0 (0)	0	0 (0)	6 (9)
CO0180000044	US POSTAL SERVICES 1501 Wynkoop St. Denver, CO	3 (3)	0 (0)	0 (0)	0 (0)	0	0 (0)	3 (3)

* includes 2 points for bulk storage of hazardous materials

NR = NOT RATED

FACILITY RATING BY STATE
(1984 Ratings in Parentheses)

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
COLORADO								
CO5210020769	ROCKY MOUNTAIN ARSENAL North of Stapleton Airport Commerce City, CO	15 (13)	14 (8)	5 (4)	4 (3)	0	7 (0)	45 (28)
CO7890010526	US DOE ROCKY FLATS PLANT 16 miles NW of Denver Golden, CO	13 (3)	14 (5)	6 (3)	4 (2)	2	5 (1)	44 (14)
CO8213820725	PUEBLO DEPOT - US ARMY 3/4 mile NE of Hwy 50 Pueblo, CO	12 (9)	12 (7)	7 (2)	4 (2)	2	7 (2)	44 (22)
CO2210020150	FORT CARSON DFAE, Bldg. 304, AFZC Fort Carson, CO	8 (7)	12 (6)	10 (4)	4 (2)	2	6 (1)	42 (20)
CO1571524130	LOWRY AIR FORCE BASE 6th and Quebec Denver, CO	9 (3)	9 (6)	7 (0)	4 (2)	0	6 (1)	35 (12)
CO-572025537	PJKS PLANT (AIR FORCE) 12250 South CO Hwy 75 Littleton, CO	3 (NR)	11 (NR)	5 (NR)	4 (NR)	1	6 (NR)	30 (NR)
CO9571924191	PETERSON AIR FORCE BASE Peterson AFB Colorado Springs, CO	6 (3)	10 (6)	5 (0)	4 (2)	0	5 (1)	30 (12)
CO8572924928	US AIR FORCE ACADEMY 10 miles N of Colorado Springs Colorado Springs, CO	3 (3)	10 (0)	7 (1)	4 (2)	0	6 (2)	30 (8)
CO9570025644	BUCKLEY AFB BASE Buckley AFB Base Aurora, CO	3 (3)	12 (1)	2 (0)	4 (2)	0	6 (1)	27 (7)
CO8211620333 CO2210020333	FITZSIMONS ARMY MEDICAL CENTER Colfax and Peoria Aurora, CO	3 (3)	6 (5)	2 (1)	4 (2)	0	5 (1)	20 (12)
CO7572025719	NORAD - CHEYENNE MOUNTAIN AFS 2221 East Bijou Colorado Springs, CO	3 (NR)	8 (NR)	2 (NR)	4 (NR)	0	1 (NR)	18 (NR)

Table 3 (cont.)

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
COLORADO (cont.)								
CD6470000500 CD4690090010	DENVER FEDERAL CENTER 6th and Kipling Denver, CO	3 (3)	5 (5)	0 (0)	4 (2)	0	5 (0)	17 (10)
CD2142306966	US BUREAU OF RECLAMATION Leadville Dr. Tunnel Leadville, CO	0 (0)	5 (5)	8 (5)	4 (0)	0	0 (0)	17 (10)
CD5245153411	USBOR - WATER & POWER RES SERV 910 Van Buren Loveland, CO	4 (3)	4 (0)	2 (0)	4 (0)	0	0 (0)	14 (3)
CD4890000017	SOLAR ENERGY RESCH INSTITUTE 1617 Cole Blvd. Golden, CO	3 (3)	5 (5)	2 (0)	0 (0)	0	1 (0)	11 (8)
CD9890031876	ANVIL POINTS OIL SHALE FAC 8 miles West of Rifle Rifle, CO	3 (3)	5 (1)	0 (0)	2 (0)	0	0 (0)	10 (4)
CD9131505175	NATIONAL BUREAU OF STANDARDS 325 Broadway Boulder, CO	3 (3)	0 (0)	2 (0)	4 (2)	0	0 (0)	9 (5)
CD3490016042	NATL CTR FOR ATMOSPHERIC RESCH 1850 Table Mesa Dr. Boulder, CO	3 (3)	0 (0)	2 (0)	4 (2)	0	0 (0)	9 (5)
CD9890090005	WAPA - POWER OPERATIONS 1800 South Rio Grande Montrose, CO	4 (4)	0 (0)	0 (0)	4 (0)	0	0 (0)	8 (4)
CD8890090006	WAPA - BAILEY FIELD BRANCH 17532 Hwy 71 Brush, CO	3 (3)	0 (0)	0 (0)	4 (2)	0	0 (0)	7 (5)
CD1890090003	WAPA - KREMLING LINES SC 13 miles South on Hwy 9 Kremmling, CO	3 (3)	0 (0)	0 (0)	4 (0)	0	0 (0)	7 (3)
CD0180000044	US POSTAL SERVICES 1501 Wynkoop St. Denver, CO	3 (3)	0 (0)	0 (0)	0 (0)	0	0 (0)	3 (3)

Table 3 (cont.)

18

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
MONTANA								
MT8571924556	WALSTROM AIR FORCE BASE Facility 1501 Perim. Great Falls, MT	4 (3)	10 (6)	5 (0)	4 (2)	0	8 (2)	31 (13)
NORTH DAKOTA								
ND4571924758	MINOT AIR FORCE BASE Facility 1982 Minot, ND	12 (10)	12 (6)	6 (1)	4 (2)	2	9 (1)	45 (20)
ND3571924759	GRAND FORKS AIR FORCE BASE Grand Forks AFB Grand Forks, ND	5 (4)	12 (6)	5 (3)	4 (2)	2	1 (2)	29 (17)
ND0971528807 ND0971528836	GRAND FORKS DFSP - USDOD DLA Grand Forks AFB, 42 N Grand Forks, ND	3 (3)	10 (5)	5 (2)	2 (0)	0	0 (0)	20 (10)
ND9210022779	MISSILE EARLY WARNING STATION Det 1 57 AD/DE Concrete, ND	5 (3)	5 (5)	2 (0)	4 (2)	1	1 (0)	18 (10)
ND5120514687	METABOLISM & RADIATION RES LAB 1604 College Street Fargo, ND	3 (3)	4 (5)	0 (0)	0 (0)	0	0 (0)	7 (8)
SOUTH DAKOTA								
SD2571924644	ELLSWORTH AIR FORCE BASE 44 CSG/SAC Rapid City, SD	7 (6)	12 (6)	6 (4)	4 (2)	2	4 (1)	35 (19)
SD2360010282	VA HOSPITAL - HOT SPRINGS 5th St., Sec. 13-175-R Hot Springs, SD	0 (0)	10 (5)	0 (0)	4 (2)	1	1 (1)	16 (8)
SD6640090035	TVA SILVER KING MINES US Highway 18 Edgemont, SD	3 (3)	9 (5)	0 (0)	0 (0)	0	0 (0)	12 (8)
SD1890090029	WAPA - WATERTOWN SUBSTATION 1 mile East of I-29 Watertown, SD	3 (3)	0 (5)	0 (0)	4 (0)	0	0 (0)	7 (8)
SD6140000021	USGS - EROS DATA CENTER 1000 Pecory Way Garretson, SD	0 (0)	0 (5)	6 (4)	0 (0)	0	0 (0)	6 (9)

Table 3 (cont.)

19

EPA ID NO.	FACILITY ADDRESS CITY	HAZARDOUS WASTE MANAGEMENT	SITE CONTAM- INATION	POINT WASTEWATER DISCHARGES	TOXIC SUBSTANCES	DRINKING WATER SUPPLY	POINT AIR EMISS	TOTAL RATING
UTAH								
UT0571724350	HILL AIR FORCE BASE 2849 AFB/DEEXY Hill AFB, UT	11 (10)	14 (9)	6 (4)	4 (2)	2	8 (2)	45 (27)
UTS210090002 UT3213820894	TOOELE ARMY DEPOT State Hwy 36 Tooele, UT	11 (11)	14 (8)	5 (0)	4 (2)	2	3 (2)	39 (23)
UT0570090001	UTAH TEST & TRAINING RANGE 7 miles SE of Wendover Wendover, UT	14 (13)	10 (5)	2 (0)	4 (2)	2	0 (0)	32 (20)
UT4570026233	AIR FORCE PLANT 78 30 miles NW on Rt. 83 Brigham City, UT	4 ()	10 ()	6 ()	4 ()	2	6 ()	32 ()
UT3750211259	DUGWAY PROVING GROUNDS 45 miles W of Tooele Dugway, UT	4 (3)	12 (1)	5 (0)	4 (2)	2	4 (1)	31 (7)
UT9210020922 UT7971549855	OGDEN DEFENSE DEPOT - DOD DLA 500 West 12th Street Ogden, UT	3 (3)	14 (6)	2 (0)	4 (0)	2	6 (1)	31 (10)
UT8570025561	LITTLE MOUNTAIN TEST ANNEX 900 South 10800 West Ogden, UT	0 (0)	7 (5)	0 (0)	4 (2)	0	0 (0)	11 (7)
WYOMING								
WY5571924179	WARREN AIR FORCE BASE Warren AFB Cheyenne, WY	4 (3)	12 (1)	5 (1)	4 (2)	2	3 (2)	30 (9)
WY7360010329	VA MEDICAL CENTER - SHERIDAN Fort RD Sheridan, WY	3 (0)	4 (0)	0 (0)	2 (2)	1	1 (1)	11 (3)
WY3890090001	WAPA - CASPER FIELD BRANCH West of Mt. View Mills, WY	3 (3)	5 (5)	0 (0)	2 (0)	0	0 (0)	10 (8)
WY1890031874 WY1890031873	WESTERN RESEARCH INST - UMYRC 9th and Lewis Streets Laramie, WY	3 (3)	5 (5)	0 (0)	0 (0)	0	0 (0)	8 (8)

NR = NOT RATED