Class 1 Permit Modification Notification

Modify WIPP South Access Road Information and Update Active Environmental Permits

Modify the Fire Suppression System Description

Waste Isolation Pilot Plant Carlsbad, New Mexico

Permit Number NM4890139088-TSDF

March 2010

Table of Contents

Transmittal Letter
Table of Contentsi
Overview of the Permit Modification Notification
Attachment A A-1 Table 1. Class 1 Hazardous Waste Facility Permit Modification Notification A-2
Item 1 A-3 Description A-3 Basis A-3 Discussion A-3 Revised Permit Text A-3
Item 2A-15DescriptionA-15BasisA-15DiscussionA-15Revised Permit TextA-16
Attachment B B-1
Attachment C C-1

Overview of the Permit Modification Notification

This document contains a Class 1 Permit Modification Notification (**PMN**) to modify the Hazardous Waste Facility Permit (**Permit**) at the Waste Isolation Pilot Plant (**WIPP**), Permit Number NM4890139088-TSDF hereinafter referred to as the Permit.

This PMN is being submitted by the U.S. Department of Energy (**DOE**) and Washington TRU Solutions LLC (**WTS**), collectively referred to as the Permittees, in accordance with Permit Condition I.B.1 (20.4.1.900 New Mexico Administrative Code (**NMAC**) incorporating Title 40 of the Code of Federal Regulations (**CFR**) §270.42(a)). The PMN in this document is necessary to notify the New Mexico Environment Department (**NMED**) of a change that impacts the WIPP facility. This change does not reduce the ability of the Permittees to provide continued protection to human health and the environment.

The requested modification to the Permit and any related supporting documents are provided in this PMN. The proposed modification to the text of the Permit has been identified using red text and <u>double underline</u>, and a strikeout font for deleted information. All direct quotations are indicated by italicized text.

Attachment A

Description of the Class 1 Permit Modification Notification

Affected Permit Section	Change Description	Category	Attachment A Page #
 Attachment G, Section G-1, Table G-1, Attachment L, Figure L-2, Attachment O, (Active Environmental Permits), Figures O2-2, and O2-2a. 	Modify the description of the WIPP South Access Road to WIPP in the Permit, Attachment G, Section G-1, and update the traffic information located in Table G-1. The Permittes' are requesting to update Figures L-2, O2-2, O2-2a and the list of Active Environmental Permits in Attachment O.	A.1	A-3
 Attachment D, Table D-1, Attachment F, Table F-6. 	Modify the fire suppression system and change the description in Table D-1 and Table F-6.	A.3	A-15

Table 1.	Class 1	Hazardous	Waste	Facility	Permit	Modification	Notification

Item 1

Description:

Modify the description of the WIPP South Access Road to WIPP in the Permit, Attachment G, Section G-1, and update the traffic information located in Table G-1. The Permittes' are requesting to update Figures L-2, O2-2, O2-2a and the list of Active Environmental Permits in Attachment O.

Basis:

The change is classified as "Administrative and informational changes" and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.1).

Discussion:

The southern access road, formerly Eddy County Route 802, was transferred to the Department of Energy (**DOE**) and will be reconstructed to current New Mexico Department of Transportation highway standards. This change has been reflected in Section G-1.

Some south access road design designation traffic parameters in Table G-1 have been updated to reflect the most current information.

The Permittee's are requesting to change the following figures: L-2, O2-2, O2-2a. The Permittee's have included this change regarding the right-of-way for the south access road as well as updating the *Active Environmental Permits and Approvals for the Waste Isolation Pilot Plant as of April 1, 2003,* in Permit Attachment O, Hazardous Waste Application Part A, Appendix O1 to bring current as of March 1, 2010.

Figure O2-2a has been revised to change the right of way number. The width of the right of way in Figure O2-2a has been changed from 150 ft to 140 ft. A new Part A is included in Attachment C of this PMN.

Revised Permit Text:

G-1 Traffic Information and Traffic Patterns

Access to the WIPP facility is provided by two access roads that connect with U.S. Highway 62/180, 13 mi (21 km) to the north, and NM Highway 128 (Jal Highway), 4 miles (6.4 km) to the south (Figure G-1). The northern access road, which connects the site to U.S. Highway 62/180, is an access road built specifically for the Permittees that will be used to transport TRU mixed waste from the highway to the site. The southern access road <u>is owned and maintained by the Department of Energy (DOE)</u>. is a county highway maintained by Eddy County. Signs and pavement markings are located in accordance with the Uniform Traffic Control Devices Manual. Access-road design designation parameters, such as traffic volume, are presented in Table G-1.



Figure L-2 WIPP Facility Boundaries Showing 16-Square-Mile Land Withdrawal Boundary



Figure O2-2 Planimetric Map - WIPP Facility Boundaries

LEGEND

	WIPP Site Boundary 10,240 Acres.
— w —	U.S. DOE Right of Way Number NM-53809. For Waterline, 50 Feet Wide. The DOE had Agreed with the City of Carlsbad to Allow the Individuals to Tap this Line Located within the North Access Road Right of Way.
	Stock Water Tanks and Tap Lines Connected to the Main WIPP Waterline.
	Southwestern Public Service Company Right of Way Number NM-43203 for Power 60 Feet Wide.
	General Telephone of the Southwest Right of Way for Telephone Line, 30 Feet Wide, Located within the North access Road Right of Way.
	General Telephone of the Southwest Right of Way Number NM-60174 for Telephone Line, 30 Feet Wide, Located within the Railroad Right of Way.
	U.S. DOE Right of Way Number NM-55675 for North Access Road, 170 Feet Wide.
	El Paso Natural Gas company Right of Way for Gas Pipeline, 30 Feet Wide in Section 16, 50 Feet Wide Elsewhere.
	U.S. DOE Right of Way Number NM-55699 for Access Railroad, 150 Feet Wide.
	Eddy CountyU.S. DOE Right of Way for Access Roads Includes Right of Way Number NM-4130123703 for the South Access Road which is 150140 Feet Wide.
NOTES	
1. The Pro	perty Protection Area is a fenced area of approximately 35 acres. It contains all surface

- facilities with the exception of salt storage piles, parking lot, landfill and waste water stabilization lagoons.
- 2. Zone II overlies the maximum extent of the Area available for underground development.
- 3. WIPP site boundary (WSB) provides a one mile buffer area around the area available for underground development.

Figure O2-2a Legend to Figure O2-2

TABLE G-1 WASTE ISOLATION PILOT PLANT SITE DESIGN DESIGNATION TRAFFIC PARAMETERS^a

Traffic Parameter	North Access Road (No. of Vehicles, unless otherwise stated)	South Access Road (No. of Vehicles, unless otherwise stated)	On-Site Waste Haul Roads (Contact- Handled and Remote- Handled Package Traffic)
Average Daily Traffic (ADT) ^b	800	<u>500</u> 400	8
Design Hourly Volume (DHV)°	144	<u>90</u> 72	NA ^g
Hourly Volume (Max. at Shift Change)	250	125	NA
Distribution (D) ^d	67%	<u>67</u> 33%	NA
Trucks (T) ^e	2%	0	100%
Design Speed ^{h,i}	70 mph (113 kph)	60 mph (97 kph)	25 mph (40 kph)
Control of Access ^f	None	None	Full

^a For WIPP personnel and TRU mixed waste shipments only.

^b ADT—Estimated number of vehicles traveling in both directions per day.

[°] DHV—A two-way traffic count with directional distribution.

^d D—The percentage of DHV in the predominant direction of travel.

^e T—The percentage of ADT comprised of trucks (excluding light delivery trucks).

^f Control of Access—The extent of roadside interference or restriction of movement.

^g NA—Not applicable.

^h mph—miles per hour.

ⁱ kph—kilometers per hour.

ACTIVE ENVIRONMENTAL PERMITS AND APPROVALS FOR THE WASTE ISOLATION PILOT PLANT AS OF APRIL 1, 2003 MARCH 1, 2010

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
1.	Department of the Interior, Bureau of Land Management	Right-of-Way for Water Pipeline	NM53809	08/17/83	In Perpetuity	Active
2.	Department of the Interior, Bureau of Land Management	Right-of-Way for the North Access Road	NM55676	08/24/83	None	Active
3.	Department of the Interior, Bureau of Land Management	Right-of-Way for Railroad	NM55699	09/27/83	None	Active
4.	Department of the Interior, Bureau of Land Management	Right-of-Way for Dosimetry and Aerosol Sampling Sites	NM63136	07/31/86	07/31/11	Active
5.	Department of the Interior, Bureau of Land Management	Right-of-Way for Seven Subsidence Monuments	NM65801	11/07/86	None	Active
6.	Department of the Interior, Bureau of Land Management	Right-of-Way for Aerosol Sampling Site	NM77921	08/18/89	08/18/19	Active
7.	Department of the Interior, Bureau of Land Management	Right-of-Way for 2 Survey Monuments	NM82245	12/13/89	12/13/19	Active
8.	Department of the Interior, Bureau of Land Management	Right-of-Way for telephone cable	NM460 29<u>92</u>	07/03/90	09/04/11	Active
9.	Department of the Interior, Bureau of Land Management	Right-of-Way for SPS Powerline	NM43203	02/20/96	10/19/11	Active
10.	Department of the Interior, Bureau of Land Management	Right-of-Way for South Access Road	NM46130 <u>NM123703</u>	09/26/94 <u>8/28/09</u>	08/17/31 <u>None</u>	Active
11.	Department of the Interior, Bureau of Land Management	Right-of-Way for Duval telephone line	NM60174	11/06/96	03/08/15	Active
12.	Department of the Interior, Bureau of Land Management	Right-of-Way for Wells AEC-7 & AEC-8	NM108365	8/30/02	08/30/32	Active
13.	Department of the Interior, Bureau of Land Management	Right-of-Way for ERDA-6	NM108365	8/30/02	08/30/32	Active
14.	Department of the Interior, Bureau of Land Management	Right-of-Way for Well C-2756 (P-18)	NM108365	8/30/02	08/30/32	Active
15.	Department of the Interior, Bureau of Land Management	Right-of-Way for Monitoring Well C-2664 (Cabin Baby)	NM107944	04/23/02	04/23/32	Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
16.	Department of the Interior, Bureau of Land Management	Right-of-Way for Seismic Monitoring Station	NM85426	09/23/91	None	Active
17.	Department of the Interior, Bureau of Land Management	Right-of-Way for Wells C-2725 (H-4A), C-2775 (H-4B), & C- 2776 (H-4C)	NM-6-5 Cooperative Agreement	04/27/78	None	Active
18.	Department of the Interior, Bureau of Land Management	Right-of-Way for Monitoring Wells C-2723 (WIPP-25), C- 2724 (WIPP-26), C-2722 (WIPP-27), C-2636 (WIPP- 28), C-2743 (WIPP-29), & C- 2727 (WIPP-30)	NM-6-5 Cooperative Agreement	06/14/78	None	Active
19.	Department of the Interior, Bureau of Land Management	Right-of-Way for Aerosol Sampling Sites	NM77921	10/03/89	08/18/19	Active
20.	Department of the Interior, Bureau of Land Management New Mexico State Land Office	Right-of-Way easement for accessing state trust lands in Eddy & Lea Counties	NM25430 <u>R25430</u>	02/29/00 <u>2/01/2006</u>	09/28/04 <u>2/01/2016</u>	Active
<u>21.</u>	<u>Department of Interior,</u> Bureau of Land Management	Right of Way for Valor Telecom	<u>NM113339</u>	<u>8/9/05</u>	<u>12/31/34</u>	<u>Active</u>
<u>22.</u>	Department of Interior, Bureau of Land Management	Right of Way for South Access Road Fence	<u>NM 094304</u>	<u>3/15/95</u>	In Perpetuity	<u>Active</u>
21.	U.S. Department of the Interior, Fish and Wildlife Service	Concurrence that WIPP construction activities will have no significant impact on federally-listed threatened or endangered species	None	05/29/80	None	Active
22.	U.S. Department of the Interior, Fish and Wildlife Service	Master Personal Banding	#22478	05/19/93	Auto. Renewed every 3 years	Active
23.	New Mexico Commissioner of Public Lands	Right-of-Way for High Volume Air Sampler	RW-22789	10/03/85	10/03/20	Active
24.	New Mexico Environment Department Groundwater Bureau	Discharge Permit	DP-831	07/03/97 <u>9/9/08</u>	07/03/02 (Comments on Draft Renewal submitted April 10, 2003) 9/9/13	Active
25.	New Mexico Environment Department Air Quality Bureau	Operating Permit for two backup diesel generators	310-M-2	12/07/93	None	Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
26.	New Mexico Department of Game and Fish	Concurrence that WIPP construction activities will have no significant impact on state- listed threatened or endangered species	None 07/25/83	05/26/89	None	Active
27.<u>26.</u>	New Mexico Environment Department-UST Bureau	Underground Storage Tanks	NMED11811 NMED1767 (Number changes annually)	07/01/02 <u>07/01/09</u>	06/30/03 (2003 registration submitted 6/18/02) 06/01/10	Active
28.<mark>27.</mark>	New Mexico State Engineer Office	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2801	02/23/01	None	Active
29.<mark>28.</mark>	New Mexico State Engineer Office	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2802	02/23/01	None	Active
30.<u>29.</u>	New Mexico State Engineer Office	Monitoring Well Exhaust Shaft Exploratory Borehole	C-2803	02/23/01	None	Active
31.<u>30.</u>	New Mexico State Engineer Office	Monitoring Well	C-2811	03/02/02	None	Active
32.<u>31.</u>	New Mexico State Engineer Office	Appropriation: WQSP-1 Well	C-2413	10/21/96	None	Active
33.<u>32.</u>	New Mexico State Engineer Office	Appropriation: WQSP-2 Well	C-2414	10/21/96	None	Active
34.<u>33.</u>	New Mexico State Engineer Office	Appropriation: WQSP-3 Well	C-2415	10/21/96	None	Active
35.<u>34.</u>	New Mexico State Engineer Office	Appropriation: WQSP-4 Well	C-2416	10/21/96	None	Active
36.<u>35.</u>	New Mexico State Engineer Office	Appropriation: WQSP-5 Well	C-2417	10/21/96	None	Active
37.<u>36.</u>	New Mexico State Engineer Office	Appropriation: WQSP-6 Well	C-2418	10/21/96	None	Active
38.<u>37.</u>	New Mexico State Engineer Office	Appropriation: WQSP-6a Well	C-2419	10/21/96	None	Active
39.<u>38.</u>	New Mexico State Engineer Office	Monitoring Well AEC-7	C-2742	11/06/00	None	Active
40.<u>39.</u>	New Mexico State Engineer Office	Monitoring Well AEC-8	C-2744	11/06/00	None	Active
<u>41.<mark>40.</mark></u>	New Mexico State Engineer Office	Monitoring Well Cabin Baby	C-2664	07/30/99	None	Active
42. <u>41.</u>	New Mexico State Engineer Office	Monitoring Well D-268 Plugged to 220'. Livestock watering	C-2638	01/12/99	None	Active
43.<u>42.</u>	New Mexico State Engineer Office	Monitoring Well DOE-1	C-2757	11/06/00	None	Active
<u>44.43.</u>	New Mexico State Engineer Office	Monitoring Well DOE-2	C-2682	04/17/00	None	Active
45.<u>44.</u>	New Mexico State Engineer Office	Monitoring Well ERDA-9	C-2752	11/06/00	None	Active
46.<u>45.</u>	New Mexico State Engineer Office	Monitoring Well H-1	C-2765	11/06/00	None	Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
47. <u>46.</u>	New Mexico State Engineer Office	Monitoring Well H-2A	C-2762	11/06/00	None	Active
48.<u>47.</u>	New Mexico State Engineer Office	Monitoring Well H-2B1	C-2758	11/06/00	None	Active
49.<u>48.</u>	New Mexico State Engineer Office	Monitoring Well H-2B2	C-2763	11/06/00	None	Active
50.<u>49.</u>	New Mexico State Engineer Office	Monitoring Well H-2C	C-2759	11/06/00	None	Active
51.<u>50.</u>	New Mexico State Engineer Office	Monitoring Well H-3B1	C-2764	11/06/00	None	Active
52.<u>51.</u>	New Mexico State Engineer Office	Monitoring Well H-3B2	C-2760	11/06/00	None	Active
53.<u>52.</u>	New Mexico State Engineer Office	Monitoring Well H-3B3	C-2761	11/06/00	None	Active
54.<u>53.</u>	New Mexico State Engineer Office	Monitoring Well H-3D	pending <u>C-3207</u>	11/06/00	None	Active
55.<u>54.</u>	New Mexico State Engineer Office	Monitoring Well H-4A	C-2725	11/06/00	None	Active
56.<u>55.</u>	New Mexico State Engineer Office	Monitoring Well H-4B	C-2775	11/06/00	None	Active
57.<u>56.</u>	New Mexico State Engineer Office	Monitoring Well H-4C	C-2776	11/06/00	None	Active
58.<u>57.</u>	New Mexico State Engineer Office	Monitoring Well H-5A	C-2746	11/06/00	None	Active
59.<u>58.</u>	New Mexico State Engineer Office	Monitoring Well H-5B	C-2745	11/06/00	None	Active
60.<u>59.</u>	New Mexico State Engineer Office	Monitoring Well H-5C	C-2747	11/06/00	None	Active
61.<u>60.</u>	New Mexico State Engineer Office	Monitoring Well H-6A	C-2751	11/06/00	None	Active
62.<u>61.</u>	New Mexico State Engineer Office	Monitoring Well H-6B	C-2749	11/06/00	None	Active
63.<u>62.</u>	New Mexico State Engineer Office	Monitoring Well H-6C	C-2750	11/06/00	None	Active
64.<u>63.</u>	New Mexico State Engineer Office	Monitoring Well H-7A	C-2694	04/17/00	None	Active
65.<u>64.</u>	New Mexico State Engineer Office	Monitoring Well H-7B1	C-2770	11/06/00	None	Active
66.<u>65.</u>	New Mexico State Engineer Office	Monitoring Well H-7B2	C-2771	11/06/00	None	Active
67.<u>66.</u>	New Mexico State Engineer Office	Monitoring Well H-7C	C-2772	11/06/00	None	Active
68.<u>67.</u>	New Mexico State Engineer Office	Monitoring Well H-8A	C-2780	11/06/00	None	Active
69.<u>68.</u>	New Mexico State Engineer Office	Monitoring Well H-8B	C-2781	11/06/00	None	Active
70.<u>69.</u>	New Mexico State Engineer Office	Monitoring Well H-8C	C-2782	11/06/00	None	Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
71.<u>70.</u>	New Mexico State Engineer Office	Monitoring Well H-9A	C-2785	11/06/00	None	Active
72.<u>71.</u>	New Mexico State Engineer Office	Monitoring Well H-9B	C-2783	11/06/00	None	Active
73.<u>72.</u>	New Mexico State Engineer Office	Monitoring Well H-9C	C-2784	11/06/00	None	Active
74.<u>73.</u>	New Mexico State Engineer Office	Monitoring Well H-10A	C-2779	11/06/00	None	Active
75.<mark>74.</mark>	New Mexico State Engineer Office	Monitoring Well H-10B	C-2778	11/06/00	None	Active
76.<mark>75.</mark>	New Mexico State Engineer Office	Monitoring Well H-10C	C-2695	04/17/00	None	Active
77.<u>76.</u>	New Mexico State Engineer Office	Monitoring Well H-11B1	C-2767	11/06/00	None	Active
78.<u>77.</u>	New Mexico State Engineer Office	Monitoring Well H-11B2	C-2687	04/17/00	None	Active
79.<u>78.</u>	New Mexico State Engineer Office	Monitoring Well H-11B3	C-2768	11/06/00	None	Active
80.<u>79.</u>	New Mexico State Engineer Office	Monitoring Well H-11B4	C-2769	11/06/00	None	Active
81.<u>80.</u>	New Mexico State Engineer Office	Monitoring Well H-12	C-2777	11/06/00	None	Active
82.<u>81.</u>	New Mexico State Engineer Office	Monitoring Well H-14	C-2766	11/06/00	None	Active
83.<u>82.</u>	New Mexico State Engineer Office	Monitoring Well H-15	C-2685	04/17/00	None	Active
84.<u>83.</u>	New Mexico State Engineer Office	Monitoring Well H-16	C-2753	11/06/00	None	Active
85.<mark>84.</mark>	New Mexico State Engineer Office	Monitoring Well H-17	C-2773	11/06/00	None	Active
86.<u>85.</u>	New Mexico State Engineer Office	Monitoring Well H-18	C-2683	04/17/00	None	Active
87.<u>86.</u>	New Mexico State Engineer Office	Monitoring Well H-19B0	C-2420	01/25/95	01/31/ 98 <u>None</u>	Inactive Renew when necessary Active
88.<u>87.</u>	New Mexico State Engineer Office	Monitoring Well H-19B1	C-2420	01/25/95	01/31/98	Inactive Renew when necessary Active
89.<u>88.</u>	New Mexico State Engineer Office	Monitoring Well H-19B2	C-2421	01/25/95	01/31/ 98 <u>None</u>	Inactive Renew when necessary Active
90.<u>89.</u>	New Mexico State Engineer Office	Monitoring Well H-19B3	C-2422	01/25/95	01/31/ 98 <u>None</u>	Inactive Renew when necessary Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
91.<u>90.</u>	New Mexico State Engineer Office	Monitoring Well H-19B4	C-2423	01/25/95	01/31/ 98 <u>None</u>	Inactive Renew when necessary Active
92:<u>91.</u>	New Mexico State Engineer Office	Monitoring Well H-19B5	C-2424	01/25/95	01/31/ 98<u>None</u>	Inactive Renew when necessary Active
93.<u>92.</u>	New Mexico State Engineer Office	Monitoring Well H-19B6	C-2425	01/25/95	01/31/ 98<u>None</u>	Inactive Renew when necessary Active
94.<u>93.</u>	New Mexico State Engineer Office	Monitoring Well H-19B7	C-2426	01/25/95	01/31/ 98<u>None</u>	Inactive Renew when necessary Active
95.<u>94.</u>	New Mexico State Engineer Office	Monitoring Well P-14	C-2637	01/02/99	None	P&A
96.<u>95.</u>	New Mexico State Engineer Office	Monitoring Well P-15	C-2686	04/17/00	None	P&A
97.<mark>96.</mark>	New Mexico State Engineer Office	Monitoring Well P-17	C-2774	11/06/00	None	Active
98.<mark>97.</mark>	New Mexico State Engineer Office	Monitoring Well P-18	C-2756	11/06/00	None	P&A
99.<mark>98.</mark>	New Mexico State Engineer Office	Monitoring Well WIPP-12	C-2639	01/12/99	None	Active
100.<u>99.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-13	C-2748	11/06/00	None	Active
101.<u>100.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-18	C-2684	04/17/00	None	Active
102.<u>101.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-19	C-2755	11/06/00	None	Active
103.<u>102.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-21	C-2754	11/06/00	None	Active
104.<u>103.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-25	C-2723	07/26/00	None	Active
105.<u>104.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-26	C-2724	11/06/00	None	Active
106.<u>105.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-27	C-2722	11/06/00	None	Active
107. <u>106.</u>	New Mexico State Engineer Office	Monitoring Well WIPP28	C-2636	01/12/99	None	P&A
108.<u>107.</u>	New Mexico State Engineer Office	Monitoring Well WIPP-29	C-2743	11/06/00	None	Active
1 <u>09.<mark>108.</mark></u>	New Mexico State Engineer Office	Monitoring Well WIPP-30	C-2727	08/04/00	None	Active
<u>109.</u>	New Mexico State Engineer Office	Monitoring Well H-6BR	<u>C-3362</u>	<u>12/27/07</u>	None	Active

	Granting Agency	Type of Permit	Permit Number	Granted/ Submitted	Expiration	Current Permit Status
<u>110.</u>	New Mexico State Engineer Office	Monitoring Well H-15R	<u>C-3361</u>	<u>12/27/07</u>	None	Active
<u>111.</u>	New Mexico State Engineer Office	Monitoring Well SNL-2	<u>C-2948</u>	<u>2/14/03</u>	None	Active
<u>112.</u>	New Mexico State Engineer Office	Monitoring Well SNL-9	<u>C-2950</u>	<u>2/14/03</u>	<u>None</u>	Active
<u>113.</u>	New Mexico State Engineer Office	Monitoring Well SNL-12	<u>C-2954</u>	2/25/03	None	Active
<u>114.</u>	New Mexico State Engineer Office	Monitoring Well SNL-1	<u>C-2953</u>	<u>2/25/03</u>	None	Active
<u>115.</u>	New Mexico State Engineer Office	Monitoring Well SNL-3	<u>C-2949</u>	<u>2/14/03</u>	None	Active
<u>116.</u>	New Mexico State Engineer Office	Monitoring Well SNL-5	<u>C-3002</u>	<u>10/1/03</u>	None	Active
<u>117.</u>	New Mexico State Engineer Office	Monitoring Well IMC-461	<u>C-3015</u>	<u>11/25/03</u>	<u>None</u>	Active
<u>118.</u>	New Mexico State Engineer Office	Monitoring Well SNL 10	<u>C-3221</u>	7/26/05	None	Active
<u>119.</u>	New Mexico State Engineer Office	Monitoring Well SNL 16	<u>C-3220</u>	7/26/05	<u>None</u>	Active
<u>120.</u>	New Mexico State Engineer Office	Monitoring Well SNL 17	<u>C-3222</u>	7/26/05	<u>None</u>	Active
<u>121.</u>	US Environmental Protection Agency Region 6	Conditions of Approval for Disposal of PCB/TRU and PCB/TRU Mixed Waste at the US Department of Energy (DOE) Waste Isolation Pilot Plant (WIPP) Carlsbad, New Mexico	<u>N/A</u>	<u>4/30/08</u>	<u>4/30/13</u>	<u>Active</u>
<u>122.</u>	US Fish and Wildlife Service	Migratory Bird Special Purpose - Relocate	<u>MB155189-0</u>	<u>6/01/09</u>	<u>5/31/10</u>	Active

Description:

Modify the fire suppression system and change the description in Table D-1 and Table F-6.

Basis:

The change is classified as "Equipment replacement or upgrading functionally equivalent components" and is therefore a Class 1 notification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR 270.42, Appendix I, A.3).

Discussion:

The underground dry chemical fire suppression system, located at the underground vehicle fuel bay, is an engineered system using Purple K as its extinguishing agent. The current system is being replaced with a functionally equivalent pre-engineered dry chemical fire suppression system. The new system will use an ABC extinguishing agent instead of Purple K. The new system will conform to National Fire Protection Association (**NFPA**) 17, "Dry Chemical Extinguishing Systems," and will be listed by Underwriter's Laboratories, Inc. to Standard 1254, "Pre-Engineered Dry Chemical Extinguishing System Units". The Permittees are proposing to use the generic term "dry chemical" instead of the specific term "Purple K" to allow for other extinguishing agents which are safer and more effective. The Permittees also propose to update the NFPA standard reference to the more appropriate standard of NFPA 17.

Revised Permit Text:

TABLE D-1 INSPECTION SCHEDULE/PROCEDURES				
Inspection ^a Frequency and Job Title of Personnel Normally Making Organization Inspection ^a Prequency and Job Title of Personnel Normally Making Procedure Number and Inspection Criteria				
Air Intake Shaft Hoist	Underground Operations	Preoperational ^c See Lists 1b and c	WP 04-HO1004 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m in accordance with Mine Safety and Health Administration (MSHA) requirements	
Ambulances (Surface and Underground) and related emergency supplies and equipment	Emergency Services	Weekly See List 11	PM000030 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Required Equipment ⁿ	
Adjustable Center of Gravity Lift Fixture	Waste Handling	Preoperational See List 8	WP 05-WH1410 Inspecting for Mechanical Operability ^m and Deterioration ^b	
Backup Power Supply Diesel Generators	Facility Operations	Monthly See List 3	WP 04-ED1301 Inspecting for Mechanical Operability ^m and Leaks/Spills by starting and operating both generators. Results of this inspection are logged in accordance with WP 04-AD3008.	
Facility Inspections (Water Diversion Berms)	Facility Engineering	Annually See List 4	WP 10-WC3008 Inspecting for Damage, Impediments to water flow, and Deterioration ^b	
Central Monitoring Systems (CMS)	Facility Operations	Continuous See List 3	Automatic Self-Checking	
Contact-Handled (CH) TRU Underground Transporter	Waste Handling	Preoperational See List 8	WP 05-WH1603 Inspecting for Mechanical Operability ^m , Deterioration ^b , and area around transporter clear of obstacles	
Facility Transfer Vehicle	Waste Handling	Preoperational See List 8	WP 05-WH1406 and WP 05-WH1408 Inspecting for Mechanical Operability ^m , Deterioration ^b , path clear of obstacles, and guards in the proper place	
Exhaust Shaft	Underground Operations	Quarterly See List 1a	PM041099 Inspecting for Deterioration ^b and Leaks/Spills	
Eye Wash and Shower Equipment	Equipment Custodian	Weekly See List 5	WP 12-IS1832 Inspecting for Deterioration ^b	
		Semi-annually See List 2a	WP 12-IS1832 Inspecting for Deterioration ^b and Fluid Levels–Replace as Required	
Fire Detection and Alarm System	Emergency Services	Semiannually See List 11	PM000027 Inspecting for Deterioration ^b , Operability of indicator lights and, underground fuel station dry chemical suppression system. Inspection is per NFPA <u>17</u> 72	
Fire Extinguishers ⁱ	Emergency Services	Monthly See List 11	PM000036 Inspecting for Deterioration ^b , Leaks/Spills, Expiration, seals, fullness, and pressure	
Fire Hoses	Emergency Services	Annually (minimum) See List 11	PM000031 Inspecting for Deterioration ^b and Leaks/Spills	
Fire Hydrants	Emergency Services	Semi-annual/ annually See List 11	PM000034 Inspecting for Deterioration ^b and Leaks/Spills	

TABLE D-1 INSPECTION SCHEDULE/PROCEDURES

System/Equipment Name	Responsible Organization	Inspection ^a Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria	
Fire Pumps	Emergency Services	Weekly/annually See List 11	PM000026 Inspecting for Deterioration ^b , Leaks/Spills, valves, and panel lights	
Fire Sprinkler Systems	Emergency Services	Monthly/ quarterly See List 11	PM000025 Inspecting for Deterioration ^b , Leaks/Spills, static pressures, and removable strainers	
Fire and Emergency Response Trucks (Seagrave Fire Apparatus, Emergency One Apparatus, and Underground Rescue Truck)	Emergency Services	Weekly See List 11	PM000033 Inspecting for Mechanical Operability ^m , Deterioration ^b , Leaks/Spills, and Required Equipment ⁿ	
Forklifts Used for Waste Handling (Electric and Diesel forklifts, Push-Pull Attachment)	Waste Handling	Preoperational See List 8	WP 05-WH1401, WP 05-WH1402, WP 05- WH1403, and WP 05-WH1412 Inspecting for Mechanical Operability ^m , Deterioration ^b , and On board fire suppression system	
Hazardous Material Response Equipment	Emergency Services	Weekly See List 11	PM000033 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Required Equipment ⁿ	
Miners First Aid Station	Emergency Services	Quarterly See List 11	PM000035 Inspecting for Required Equipment ⁿ	
Mine Pager Phones (between surface and underground)	Facility Operations	Monthly See List 3	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations	
MSHA Air Quality Monitor	Maintenance/ Underground Operations	Daily ^l See Lists 1 and 10	WP 12-IH1828 Inspecting for Air Quality Monitoring Equipment Functional Check	
Perimeter Fence, Gates, Signs	Security	Daily See List 6	PF0-011 Inspecting for Deterioration ^b and Posted Warnings	
Personal Protective Equipment (not otherwise contained in emergency vehicles or issued to individuals): —Self-Contained Breathing Apparatus	Emergency Services	Weekly See List 11	PM000029 Inspecting for Deterioration ^b and Pressure	
Public Address (and Intercom System)	Facility Operations	Monthly See List 3	WP 04-PC3017 Testing of PA and Underground Alarms and Mine Page Phones at essential locations Systems operated in test mode	
Radio Equipment	Facility Operations	Daily ⁱ See List 3	Radios are operated daily and are repaired upon failure	
Rescue Truck (Surface and Underground)	Emergency Services	Weekly See List 11	PM000030 and PM000033 Inspecting for Mechanical Operability ^m , Deterioration ^b , Leaks/Spills, and Required Equipment ⁿ	

TABLE D-1 INSPECTION SCHEDULE/PROCEDURES

System/Equipment Name	Responsible Organization	Inspection ^a Frequency and Job Title of Personnel Normally Making Inspection	Procedure Number and Inspection Criteria	
Salt Handling Shaft Hoist	Underground Operations	Preoperational See List 1b and c	WP 04-HO1002 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m in accordance with MSHA requirements	
Self-Rescuers	Underground Operations	Quarterly See List 1c	WP 04-AU1026 Inspecting for Deterioration ^b and Functionality in accordance with MSHA requirements	
Surface TRU Mixed Waste Handling Area ^k	Waste Handling	Preoperational or Weekly ^e See List 8	WP 05-WH1101 Inspecting for Deterioration ^b , Leaks/Spills, Required Aisle Space, Posted Warnings, Communication Systems, Container Condition, and Floor coating integrity	
TRU Mixed Waste Decontamination Equipment	Waste Handling	Annually See List 8	WP 05-WH1101 Inspecting for Required Equipment ⁿ	
Underground Openings— Roof Bolts and Travelways	Underground Operations	Weekly See List 1a	WP 04-AU1007 Inspecting for Deterioration ^b	
Underground— Geomechanical Instrumentation System (GIS)	Geotechnical Engineering	Monthly See List 9	WP 07-EU1301 Inspecting for Deterioration ^b	
Underground TRU Mixed Waste Disposal Area	Waste Handling	Preoperational See List 8	WP 05-WH1810 Inspecting for Deterioration ^b , Leaks/Spills, mine pager phones, equipment, unobstructed access, signs, debris, and ventilation	
Uninterruptible Power Supply (Central UPS)	Facility Operations	Daily See List 3	WP 04-ED1542 Inspecting for Mechanical Operability ^m and Deterioration ^b with no malfunction alarms. Results of this inspection are logged in accordance with WP 04-AD3008.	
TDOP Upender	Waste Handling	Preoperational See List 8	WP 05-WH1010 Inspecting for Mechanical Operability ^m and Deterioration ^b	
Vehicle Siren	Emergency Services	Weekly See List 11	Functional Test included with inspection of the Ambulances, Fire Trucks, and Rescue Trucks	
Ventilation Exhaust	Maintenance Operations	Quarterly See List 10	IC041098 Check for Deterioration ^b and Calibration of Mine Ventilation Rate Monitoring Equipment	
Waste Handling Cranes	Waste Handling	Preoperational See List 8	WP 05-WH1407 Inspecting for Mechanical Operability ^m , Deterioration ^b , and Leaks/Spills	
Waste Hoist	Underground Operations	Preoperational See List 1b and c	WP 04-HO1003 Inspecting for Deterioration ^b , Safety Equipment, Communication Systems, and Mechanical Operability ^m , Leaks/Spills, in accordance with MSHA requirements	
Water Tank Level	Facility Operations	Daily See List 3	SDD-WD00 Inspecting for Deterioration ^b , and water levels. Results of this inspection are logged in accordance with WP 04-AD3008.	

TABLE D-1 INSPECTION SCHEDULE/PROCEDURES				
Inspection ^a Frequency and Job Title of Personnel Normally Making Organization Inspection ^a Procedure Number and Inspection Criteria				
Push-Pull Attachment	Waste Handling	Preoperational See List 8	WP 05-WH1401 Inspecting for Damage and Deterioration ^b	
Trailer Jockey	Waste Handling	Preoperational See List 8	WP 05-WH1405 Inspecting for Mechanical Operability ^m and Deterioration ^b	
Explosion-Isolation Walls	Underground Operations	Quarterly See List 1	Integrity and Deterioration ^b of Accessible Areas	
Bulkhead in Filled Panels	Underground Operations	Monthly See List 1	Integrity and Deterioration ^b of Accessible Areas	

Equipment	Description and Capabilities	Location			
	Communications				
Building Fire Alarms	Manual pull stations and automatic devices (sprinkler system flow, and smoke and thermal detectors) trigger fire alarm; locally visible and audible; visual display and alarm in Central Monitoring Room (CMR)	Guard and Security Building, Pumphouse, Warehouse/Shops, Exhaust Filter Building, Support Building, CMR/ Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, SH Hoisthouse, Maintenance Shops, Guard Shack*, Auxiliary Warehouse, Core Storage Building, Engineering Building, Training Facility, Safety Building, Maintenance Shop, Hazardous Waste Storage (non-TRU) Area (Facility 474) *local alarms; not connected to the CMR			
Underground Fire Alarms	Automatic/Manual; have priority over other paging channel signals but not override intercom channels; alarms sound in the general area of the control panel and are connected to the underground evacuation alarms; they also interface with the CMR.	Fire detection and control panel locations: Waste Shaft Underground Station, SH Shaft Underground Station, Between E- 140 and E-300 in S-2180 Drift, E-O/N-1200, Fuel Station			
Site-wide Evacuation Alarm	Transmitted over paging channel of the public address system, overriding its normal use; manually initiated according to procedures requiring evacuation; audible alarm produced by tone generator at 10 decibels above ambient noise level (or at least 75 decibels); flashing strobe lights; radios and/or pagers are used to notify facility personnel outside alarm range. Monthly test are performed on the PA, site notification alarms, and plectrons.	Site-wide			
Vehicle Siren	Manual; oscillating; emergency services/surface response vehicles, is mechanical and electronic.	WIPP surface emergency vehicles			
Public Address System	Includes intercom phones; handset stations and loudspeaker assemblies, each with own amplifiers; multichannel, one for public address and pages, and others for independent party lines.	Surface and underground			
Intraplant Phones	Private automatic branch exchange; direct dial; provide communication link between surface and underground operations	Throughout surface and underground			
Mine Page Phones	Battery-operated paging system	CMR, Mine Rescue Room, EOC, lamproom, underground at S550/W30, S100/W30, S1950/E140, SH Shaft Collar and Underground Station, Waste Shaft Collar and Underground Station, FSM desk.			
Emergency Pagers	Manual; , intermittent alarm signals	Issued to appropriate emergency personnel			
Plectrons	Tone-alert radio receivers placed in areas not accessible by the public address system	Site-wide			
Portable Radios	Two-way, portable; transmits and monitors information to/from other transmitters	Issued to individuals			

Equipment	Description and Capabilities	Location
Plant Base Radios	Two-way, stationary, VHF-FM; linked to Eddy County Sheriff Department, NM State Police, and Otis Fire Department), and WIPP Channels 1-18 (Communication with the Lea County Sheriff's Department, the Hobbs Fire Department, Carlsbad Medical Center and Lea Regional Hospital is available via the Eddy County dispatcher) (Site Security, Site Operations and Site Emergency, maintenance, repeater to Carlsbad). Wireless communications such as cellular phones may be used to contact the Eddy County emergency responders.	Various site locations
Mobile Phones	Provide communications link between WIPP Security and key personnel	Issued to individuals plus emergency vehicles,
	Spill Response	
SPILL-X-S Guns and Recharge Powder	Containment; (1)SPILL-X model SC-30-C(Gun) (1)SPILL-X model XC-30-S(Gun) (1)SPILL-X model SC-30-A(Gun); (1) A-Acid, 5 gallon bucket (Recharge Powder) (1)S-Solvent, 5 gallon bucket (Recharge Powder) (1)C-Caustic, 5 gallon bucket (Recharge Powder)	HAZMAT trailer
Absorbent Sheets	Containment or cleanup; (1) 3' x 100' Sheet	HAZMAT trailer
Absorbents	Grab and Go container; spill control bucket; (1) for solvents and neutralizing absorbents; 5 gallon bucket (1) for acids/caustics; 5 gallon bucket	HAZMAT trailer
Absorbent Material	Containment or cleanup; (1) 100 ft. rolled or equivalent socks " Pig" for general liquid (1) 100 ft. rolled or equivalent socks " Pig" for oil	HAZMAT trailer
Air Bag System	Extrication, Stabilization, Cribbing (1) bag system with tank kit and the following bag sizes: (1)12-ton, (1) 21.8-ton, (1)17-ton	Surface rescue truck
Air Chisel	Extrication (1) Capable of cutting 3/16" steel	Surface rescue truck
Drum Transfer Pumps and Drum Opener	Containment or cleanup; (1) unit for chemical transfer (1) hand operated pump for petroleum transfer (1) drum opener	HAZMAT trailer
Floor Squeegee	Containment or cleanup; (1) straight rubber blade, nonwood handle	HAZMAT trailer
Foam Concentrate	AFFF 6% (4) 5-gallon pail	Fire truck # 1
Gas Cylinder Leak Control Kit	(1)Series A Hazardous Material Response Kit; contains nonsparking equipment to control and plug leaks	HAZMAT trailer
Portable Generator	(1)Backup power; 5,000 watt; 120 or 240 volt	Surface rescue truck

Equipment	Description and Capabilities	Location		
Hand Tools	Containment and cleanup; Underground rescue truck: (1)12# Sledge Hammer (1)3/8" Drive Socket Set (1)½" Drive Socket Set (1)3/4" Drive Socket Set (1)3/4" Drive Socket Set (1)25' ½" Chain (1)6' Wrecking Bar (1)Bottle Jack (1)4# Hammer (1)18" Crescent Wrench (1)5' Pry Bar (1)2' Pry Bar (1)10' Extension Cord (1)4' Nylon Sling (1)10' Nylon Sling (1)10' Nylon Sling These tools are located in the HAZMAT Trailer. They are non- sparking. (1)14"L adjustable pipe wrench (1)14"L adjustable pipe wrench (1)15" multi-opening bung wrench (1)16" multi-opening bung wrench (1)hammer/crate opener (1)8" pipe pliers (1)8" blade Phillips (1)#2 screwdriver (1)6" blade standard screwdriver (1)Claw Hammer	Underground rescue truck, HAZMAT trailer		
Come-a-longs	(1) 4-ton; cable-type Ratchet lever tool designed specifically for lifting, lowering and pulling applications including jobs requiring rigging, positioning, and stretching. Used in rescue for extrication.	Surface rescue truck and underground rescue truck		
Porta-power	 10-ton hydraulic, hand-powered jaws used for extrication during rescues. 	Surface rescue truck		
Jugs	Containment or cleanup; (4) 1-gallon plastic	HAZMAT trailer		
Pails	Containment or cleanup; (3) 5-gallon plastic with lid	HAZMAT trailer		
Portable Lighting	(1) Emergency lighting system; 120 volts; 500-watt bulbs, suitable for wet location	Underground rescue truck		
Patching Kit	Series A Hazardous Response Kit; Class A; contains nonsparking equipment to control and plug leaks.	HAZMAT trailer		
Scoops and Shovels	Cleanup; plastic; various sizes; nonsparking; nonwood handles (1) Scoop (3) Shovels	HAZMAT trailer		
Medical Resources				
Ambulance #1	Equipped as per Federal Specifications KKK-A-1822 and New Mexico Emergency Medical Services Act General Order 35; equipped with a radio to Carlsbad Medical Center, VHF radio, UHF medical frequency, cellular phone	Surface (Safety and Emergency Services Facility)		
Ambulance #2	Diesel hardcab ambulance equipped with first aid kit, 2 stretchers, and other associated medical supplies	Underground		

Equipment	Description and Capabilities	Location
Rescue Truck	Special purpose vehicle; light and heavy duty rescue equipment; transports 1 litter patient, medical oxygen and supplies for mass casualties, fire suppression support equipment (rescue tool, air bag, K-12 Rescue Saw, 5,000-watt generator, self-contained breathing apparatus (SCBA), and much more equipment	Surface (Safety and Emergency Services Facility)
	Fire Detection and Fire Suppression Equipment	
Building Smoke, Thermal Detectors, or Manual Pull Stations	Ionization and photoelectric or fixed temperature/rate of rise detectors; visual display and alarm in CMR; manual pull stations. The underground has manual fire alarm pull stations located where personnel have access when evacuating. These are connected to the U/G evacuation alarm.	Guard and Security Building, Warehouse/Shops, Support Building, CMR/Computer Room, Waste Handling Building, TRUPACT Maintenance Facility, Waste Shaft Collar, Underground Fuel Station, SH Hoisthouse, Engineering Building, Industrial Safety Building, Training Facility
Fire Truck # 1	Equipped per Class "A" fire truck per NFPA; capacity 750 gallons, with pump capacity of 1200 gallons per minute	Surface (Safety and Emergency Services Facility)
Rescue Truck # 2 (U/G)	(1) 125-pound dry chemical extinguisher(1) 150-pound foam extinguisher	Underground
Extinguishers	Individual fire extinguisher stations; various types located throughout the facility, conforming to NFPA-10.	Buildings, underground, and underground vehicles
Automatic Dry Chemical Extinguishing Systems	Automatic; 1,000-pound system (<u>Dry ChemicalPurple K</u>); actuated by thermal detectors or by manual pull stations	Underground fuel station
Sprinkler Systems	Fire alarms activated by water flow	Pumphouse, Guard and Security Building, Support Building, Waste Handling Building (contact- transuranic waste area only), Warehouse/Shops Building, Auxiliary Warehouse Building, TRUPACT Maintenance Facility, Training Facility, SH Shaft Hoisthouse, Exhaust Filter Building, Engineering Building, and Safety Building
Water Tanks, Hydrants	Fire suppression water supply; one 180,000-gallon capacity tank, plus a second tank with 100,000 gallon reserve	Tanks are at southwestern edge of WIPP facility; pipelines and hydrants are throughout the surface
Fire Water Pumps	Fire suppression water supply; 125 pounds per square inch, 1,500 gallons per minute centrifugal pump, one with electric motor drive, the other with diesel engine; pressure maintenance pump	Pumphouse

Equipment	Description and Capabilities	Location	
	Personal Protection Equipment		
Headlamps	Mounted on hard hat; battery operated	Each person underground	
Underground Self- Rescuer Units	Short-term rebreathers; approximately 300	Each person underground	
Self-Contained Self- Rescuer	At least 60 minutes of oxygen available. Approximately 400 units cached throughout the underground	Cached throughout the underground	
Self-Contained Breathing Apparatus (SCBA)	Oxygen supply; 4-hour units; approximately 14 Mine Rescue Team Draeger units	Mine Rescue Training Room	
Chemical and Chemical-Supported Gloves	Body protection; (12 pair) inner-cloth, (12 pair) outer-pvc, (5 pair) outer-viton	HAZMAT trailer	
Suit, Acid	Body protection; (4) acid	HAZMAT trailer	
Suit, Fully Encapsulated	Body protection; used with SCBAs; full outerboot; (4) Level A; (4) Level B	HAZMAT trailer	
Emergency Medical Equipment			
Antishock Trousers	Shock treatment; (2) inflatable, one on each ambulance	Ambulance # 1 and # 2	
Zoll 1600 Heart Monitor and Defibrillator	Heart Monitor/defibrillator	Ambulance # 1 and # 2	
Oxygen	Patient care; Size D: (2) Ambulance #1 (1) Underground Ambulance (1) Health Services Size E: (1) Rescue Truck (2) Underground Ambulance Size M: (1) Ambulance #1	Ambulance # 1 and # 2, surface rescue truck	
Resuscitators (Bag)	Disposable bag resuscitation Ambulance #1: (2) adult size (1) child size Underground Ambulance: (2) adult size	Ambulance # 1, Ambulance # 2	

Equipment	Description and Capabilities	Location
Splints	 Immobilize limbs; (1) Adult traction splint, lower extremity, with limb-supporting slings, padded ankle hitch and traction device per ambulance. (2) Rigid splinting devices or equivalents, suitable for immobilization of upper extremities per ambulance. (2) Rigid splinting devices or equivalents, suitable for the immobilization of lower extremities. (1) Set of Airsplints: 6 assorted splints; hand/wrist, half arm, full arm, foot/ankle, half leg, and full leg per miner's aid stations. 	Ambulance # 1 and # 2, Miner's Aid Stations
Stretchers	 Patient transport; (2) Spine Boards, one short and one long, with nylon straps per ambulance. (also used to perform cardiopulmonary resuscitation) (2) Emergency Stretchers or scoops, or combination per ambulance (1) All-purpose multi-level ambulance stretch (gurney), with 3 safety straps and locking mechanism per ambulance. (1) Stretcher in each miner's aid station. 	Various combinations in Ambulance # 1 and # 2, Miner's Aid Station
Suctions	For medical emergencies: Portable (1) Suction unit, capable of delivering at least 300 mm. HG on each ambulance.	Ambulances #1 and #2
Trauma Kits	 (1) adult blood pressure cuff and stethoscope (4) soft-roller bandages (3) triangular bandages (1) pkg. band-aids (2) trauma dressings (25) 4X4 sponges (1) roll adhesive tape (1) poll adhesive tape (1) bite stick (1) penlight (1) sterile burn sheet (1) oropharyngeal airway (1) glucose substance (2) sterile gauze dressings 	(1) kit in each: Ambulances #1 and #2, surface rescue truck
Miner's Aid Station	For First Aid Stations in the Underground (1) Stretcheras referenced above per station (1) Set of airsplintsas referenced above per station (1) Blanket per station (1) Box of latex gloves (50) per station (5) Pathogen Wipes per station (1) First Aid Kit (24) per station; includes, (3) Band-Aid Combo Paks (2) Swabs, PVP (1) Antibiotic Ointment (1) Sting-Kill Swab (2) Dressing, compresses (2) Roller Bandages (2) Trape (2) Triangle Bandage (1) Eyedressing Pak (1) Burn Dressing (1) Ammonia Inhalants (1) User Log Sheet	Miner's Aid Stations - Various Underground Locations

Equipment	Description and Capabilities	Location
First Aid Supplies	According to General Order #35 (12) bandages, soft roller, self-adhering type4" or 6" x 5 yards. (6) triangular bandages, 40" (1) box band-aids (1) 1 pair bandage shears (6) Trauma dressings, 30" x 10" (7) Trauma dressings, 5" x 7" (50) 4" x 4" sponges, individually wrapped and sterile (2) rolls adhesive tape (1) penlight (2) sterile burn sheets (2) oropharyngeal airways adult (2) oropharyngeal airways child (Ambulance #1 only) (2) oropharyngeal airways infant (Ambulance #1 only) (1) Glucose substance (3) Occlusive dressings (1) Roll aluminum foil (6) Rigid cervical collars2 each small, medium and large sizes (4) Cold packs (2) Bite sticks	Ambulance #1
First Aid Supplies	(2) Transfer sheets(2) Blankets	Ambulances #1 and #2
First Aid Supplies	 (2) #16g angiosets (2) #18g angiosets (2) #20g angiosets (1) 1000cc LR IV fluid (1) 500cc NS IV fluid 	Ambulances #1 and #2, surface rescue truck
	General Plant Emergency Equipment	
Emergency Lighting	For employee rescue and evacuation, and fire/spill containment; linked to main power supply, and selectively linked to back up diesel power supply and/or battery-backed power supply	Surface and underground
Backup Power Sources	Two diesel generators, and battery-powered uninterruptible power supply (UPS); use limited to essential loads; manual or remote starting 1,100-kilowatt diesel generators with on-site fuel for 62% load for 3 days for selected loads; 30-minute battery capacity for essential loads	Generators are east of Safety and Emergency Services Building; UPS is located at the essential loads
Hoists	Hoists in Waste Shaft, Air Intake Shaft, and SH Shaft	Waste Shaft, Air Intake Shaft, SH Shaft
Radiation Monitoring Equipment	(5) Portable alpha and beta survey meters, portable air samplers, and portable continuous air monitors	Building 412
Emergency Shower	For emergency flushing of contaminated individual	Surface
Eye Wash Fountains	For emergency flushing of affected eyes	Various locations on surface and in the underground
Decon Shower Equipment	Self-contained decon shower trailer, portable decon shower unit, disposable decon shower	Surface
Overpack containers	14-85 Gallon drums 4-SWBs 1-TDOP	Building 481 Building 481 Building 481

Equipment	Description and Capabilities	Location
HEPA Vacuums	2 HEPA Vacuums to be utilized for removal of contamination.	Building 481
Aquaset or Cement	100 lbs. of aquaset or cement material for solidification of liquid waste generated as a result of fire fighting water or decontamination solutions.	Building 481
Polyvinyl Alcohol or Paint	1 - 5 gallon bucket of approved fixative to be used during recovery.	Building 481
TDOP Upender	Upender facilitates overpacking standard waste boxes	Building 481
Non hazardous Decontaminating Agents	4-1 Gallon bottles for decontamination of surfaces, equipment, and personnel	Building 481

Attachment B



This Illustration for Information Purposes only.

Figure L-2 WIPP Facility Boundaries Showing 16-Square-Mile Land Withdrawal Boundary



This Illustration for Information Purposes only.

Figure O2-2 Planimetric Map – WIPP Facility Boundaries

LEGEND

	WIPP Site Boundary 10,240 Acres.
— w —	U.S. DOE Right of Way Number NM-53809. For Waterline, 50 Feet Wide. The DOE had Agreed with the City of Carisbad to Allow the Individuals to Tap this Line Located within the North Access Road Right of Way.
	Stock Water Tanks and Tap Lines Connected to the Main WIPP Waterline.
	Southwestern Public Service Company Right of Way Number NM-43203 for Power 60 Feet Wide.
_ ```	General Telephone of the Southwest Right of Way for Telephone Line, 30 Feet Wide, Located within the North access Road Right of Way.
	General Telephone of the Southwest Right of Way Number NM-60174 for Telephone Line, 30 Feet Wide, Located within the Railroad Right of Way.
	U.S. DOE Right of Way Number NM-55675 for North Access Road, 170 Feet Wide.
	El Paso Natural Gas company Right of Way for Gas Pipeline, 30 Feet Wide in Section 16, 50 Feet Wide Elsewhere.
	U.S. DOE Right of Way Number NM-55699 for Access Railroad, 150 Feet Wide.
	U.S. DOE Right of Way for Access Roads Includes Right of Way Number NM-123703 for the South Access Road which is 140 Feet Wide.
NOTES	
1. The Pro	perty Protection Area is a fenced area of approximately 35 acres. It contains all surface

- The Property Protection Area is a fenced area of approximately 35 acres. It contains all sumade facilities with the exception of salt storage piles, parking lot, landfill and waste water stabilization lagoons.
- 2. Zone II overlies the maximum extent of the Area available for underground development.
- WIPP site boundary (WSB) provides a one mile buffer area around the area available for underground development.

Figure O2-2a Legend to Figure O2-2 Attachment C

SEND COMPLETED FORM TO:	United States Environmental P	rotectior	Agency	
The Appropriate State or EPA Regional Office.	RCRA SUBTITLE C SITE IDENT	IFICAT	ION FORM	
1. Reason for Submittal	Reason for Submittal:	Activity (to	obtain an EPA ID Numbe	or for bazardous
(See instructions on page 14.)	waste, universal waste, or used oil activities)	Activity (to		
MARK ALL BOX(ES)	To provide Subsequent Notification of Regulated V	Waste Activ	vity (to update site identifi	cation information)
THAT APPLY	As a component of a First RCRA Hazardous Wast	te Part A P	ermit Application	
	As a component of a Revised RCRA Hazardous V	Waste Part	A Permit Application (Am	endment #)
	As a component of the Hazardous Waste Report			
2. Site EPA ID Number (page 15)	EPA ID Number			
3. Site Name (page 15)	Name:			
4. Site Location	Street Address:			
Information (page 15)	City, Town, or Village:		State:	
	County Name:		Zip Code:	
5. Site Land Type (page 15)	Site Land Type: Private County District	Federal	🗅 Indian 🕒 Municipal	State DOther
6. North American Industry Classification	A. I	в. I_		I
System (NAICS) Code(s) for the Site (page 15)	C. I	D.		I
7. Site Mailing	Street or P. O. Box:			
Address (page 16)	City, Town, or Village:			
	State:			
	Country:		Zip Code:	
8. Site Contact Person	First Name:	MI:	Last Name:	
(page 16)	Phone Number: Extension:		Email address:	
9. Operator and Legal Owner	A. Name of Site's Operator:		Date Became Operato	r (mm/dd/yyyy):
of the Site (pages 16 and 17)	Operator Type: D Private D County D District	Federal	🗖 Indian 📮 Municipal	State Other
	B. Name of Site's Legal Owner:		Date Became Owner (mm/dd/yyyy):
	Owner Type: Derivate County District	Federal	Indian I Municipal	□ State □ Other

9. Legal Owner	Street or P. O. Box:				
(Continued) Address	City, Town, or Village:				
	State:				
	Country:				Zip Code:
10. Type of Regulated Mark "Yes" or "No	Waste Activity " for all activities; complete	any ao	dditional boxes a	s instructed	. (See instructions on pages 18 to 21.)
A. Hazardous Was Complete all pa	te Activities rts for 1 through 6.				
Y II N II 1. Generator of	of Hazardous Waste			YONO2	2. Transporter of Hazardous Waste
If "Yes", cr □ a. LQG:	Greater than 1,000 kg/mo (2	,200 lb	i, b, or c. is./mo.)	YONDS	 Treater, Storer, or Disposer of Hazardous Waste (at your site) Note:
	of non-acute hazardous was	ste; or			A hazardous waste permit is required for this activity
D b. SQG:	100 to 1,000 kg/mo (220 - 2, of non-acute hazardous was	,200 lb: ste; or	s./mo.)	YONO4	I. Recycler of Hazardous Waste (at your
🗖 c. CESC	QG: Less than 100 kg/mo (22 of non-acute hazardous v	0 lbs./n vaste	no.)	YONO (site) 5. Exempt Boiler and/or Industrial
In addition, i	ndicate other generator acti	vities.			Furnace If "Yes", mark each that applies.
Y 🗖 N 🗖 d. Unite	d States Importer of Hazardo	us Was	ste		a. Small Quantity On-site Burner Exemption
Y 🗅 N 🗅 e. Mixeo	d Waste (hazardous and radic	active)) Generator		b. Smelting, Melting, and Refining Furnace Exemption
				YONO	6. Underground Injection Control
B. Universal Waste	e Activities			C. Us Ma	sed Oil Activities ark all boxes that apply.
Y □ N □ 1. Large Quar 5,000 kg or determine v waste gene mark all bo	ntity Handler of Universal W more) [refer to your State r what is regulated]. Indicate erated and/or accumulated a xes that apply:	aste (a regulat types t your	accumulate tions to of universal site. If "Yes",	Y 🗆 N 🗆 1	 Used Oil Transporter If "Yes", mark each that applies. a. Transporter b. Transfer Facility
a. Batteries	<u></u>			Y 🗆 N 🖬 2	. Used Oil Processor and/or Re-refiner If "Yes", mark each that applies.
b. Pesticides	ι				a. Processor b. Re-refiner
c. Thermosta	ts				
d. Lamps	ι			Y 🖸 N 🖬 3	. Off-Specification Used Oil Burner
e. Other (spe	cify)			Y 🗆 N 🗆 4	. Used Oil Fuel Marketer
f. Other (spe	cify)				If "Yes", mark each that applies.
g. Other (spe	cify)				 Off-Specification Used Oil to Off-Specification Used Oil Burner b. Marketer Who First Claims the
Y D N D 2. Destination Note: A hazar	Facility for Universal Waster rdous waste permit may be re	e quired	for this activity.		Used Oil Meets the Specifications

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EPA ID NO:	1	11			I			1	I
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11. Description of	of Hazardous Waste	s (See instruction	ns on page 22.)			
A. Waste Code handled at y additional pa	es for Federally Reg our site. List them ir age if more spaces a	ulated Hazardou the order they are re needed.	s Wastes. Please li presented in the reg	st the waste codes gulations (e.g., D00	of the Federal hazardo 1, D003, F007, U112).	ous wastes Use an
B. Waste Code hazardous w more spaces	es for State-Regula vastes handled at you s are needed for was	ed (i.e., non-Fede Ir site. List them ir te codes.	ral) Hazardous Wa	stes. Please list th presented in the reg	e waste codes of the S julations. Use an addi	State-regulated tional page if
12. Comments (S	See instructions on	page 22.)	•			
13. Certification. in accordance with on my inquiry of th information submit penalties for subm For the RCRA Haz (See instructions	I certify under pena a system designed e person or persons ted is, to the best of itting false informatic ardous Waste Part A on page 22.)	ity of law that this of to assure that qual who manage the s my knowledge and n, including the po A Permit Applicatio	document and all atta ified personnel prope system, or those person l belief, true, accurat ssibility of fine and in n, all operator(s) and	achments were prep erly gather and eval sons directly respon e, and complete. I a mprisonment for kno d owner(s) must sig	bared under my direction uate the information so sible for gathering the arm aware that there are bowing violations. n (see 40 CFR 270.10	on or supervision ubmitted. Based information, the e significant (b) and 270.11).
Signature of oper authorized repres	rator, owner, or an sentative	Name and Off	icial Title (type or p	print)		Date Signed (mm/dd/yyyy)
EDA Form 0700	22 (Daviand 2/200	5)				

Hazardous Waste Codes (Continued)

EPA ID No.: NM4890139088
Hazardous Waste Numbers
D027
D020
D029
D030
D032
D034
D035
D036
D037
D038
D039
D040
D043
P015
U002
U019
U037
U043
U044
U052
U070
U072
U078
U079
U105
U122
U133
U151
U154
U159
U196
U209
U210
U220
U226
U228
U239
P120
U134
D033
P030
P098
P099
P106
1102
0100

EPA ID NO:	1	11	1	I I	I I	11	1

United States Environmental Protection Agency HAZARDOUS WASTE PERMIT INFORMATION FORM

1.	Facility Permit Contact (See	Firs	st Na	ame):											MI:	Last Name:
	instructions on page 23)	Pho	one	Nur	nbei	:											Phone Number Extension:
2.	Facility Permit Contact Mailing	Stre	eet	or P	.O. I	Box:											
	Address (See instructions on	City	у, Т о	own	, or	Villa	ge:										
	page 23)	Sta	te:														
		Cοι	untr	y:													Zip Code:
3.	Operator Mailing Address and	Stre	eet (or P	.O. I	Box:											
	Telephone Number (See instructions on	City	у, То	own	, or	Villa	ge:										
	page 23)	Sta	te:														
		Cοι	untr	у:								z	ip Co	de:			Phone Number
4.	Legal Owner Mailing Address and	Stre	eet (or P	.O. I	Box:											·
	Telephone Number (See instructions on	City	у, Т о	own	i, or	Villa	ge:										
	page 23)	Sta	te:														
		Cοι	untr	у:								z	ip Co	de:			Phone Number
5.	Facility Existence Date (See instructions on page 24)	Fac	ility	/ Ex	ister	nce l	Date	(mn	n/dd	/ууу	y):						•
6.	Other Environmental P	ermi	its (See	inst	ruct	ions	on	page	ə 24)							
	A. Permit Type (Enter code)					В.	Per	nit l	Num	ber							C. Description
															_		
															_	 	
															_		
7.	Nature of Business (Pr	ovid	e a	brie	fde	scrit	otion	: se	e ins	struc	tior	าร	on pa	ae 2	24)		
								,				-		J -	,		

8. Process Codes and Design Capacities (See instructions on page 24) - Enter information in the Sections on Form Page 3.

A. PROCESS CODE - Enter the code from the list of process codes in the table below that best describes each process to be used at the facility. Fifteen lines are provided for entering codes. If more lines are needed, attach a separate sheet of paper with the additional information. For "other" processes (i.e., D99, S99, T04 and X99), enter the process information in Item 9 (including a description).

- B. PROCESS DESIGN CAPACITY- For each code entered in Section A, enter the capacity of the process.
 - 1. AMOUNT Enter the amount. In a case where design capacity is not applicable (such as in a closure/post-closure or enforcement action) enter the total amount of waste for that process.
 - 2. UNIT OF MEASURE For each amount entered in Section B(1), enter the code in Section B(2) from the list of unit of measure codes below that describes the unit of measure used. Select only from the units of measure in this list.

C. F	PROCESS TOTAL	NUMBER OF UNITS	 Enter the total number of it 	units for each corre	spondina process code.
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PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY	PROCESS CODE	PROCESS	APPROPRIATE UNITS OF MEASURE FOR PROCESS DESIGN CAPACITY
	Disposal:			Treatment (continued):	
D79	Underground Injection Well Disposal	Gallons; Liters; Gallons Per Day; or Liters Per Day	T81 T82	Cement Kiln Lime Kiln	For T81-T93:
D80	Landfill	Acre-feet; Hectare-meter; Acres; Cubic Meters; Hectares; Cubic Yards	T83 T84 T85	Aggregate Kiln Phosphate Kiln Coke Oven	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour: Matrie Tons Per Day: Matrie
D81	Land Treatment	Acres or Hectares	T86	Blast Furnace	Tons Per Hour; Short Tons Per Day; Btu
D82	Ocean Disposal	Gallons Per Day or Liters Per Day	T87	Smelting, Melting, or Refining	Per Hour; Liters Per Hour; Kilograms Per
D83	Surface Impoundment Disposal	Gallons; Liters; Cubic Meters; or Cubic Yards	T88	Furnace Titanium Dioxide Chloride Oxidation Reactor	Hour; or Million Btu Per Hour
D99	Other Disposal Storage:	Any Unit of Measure in Code Table Below	Т89	Methane Reforming Furnace Pulping Liquor Recovery	
\$01	<u>Storage</u> . Container	Callons: Liters: Cubic Meters: or Cubic Vards	T90 T01	Furnace	
S01 S02	Tank Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	191	The Recovery Of Sulfur Values From Spent Sulfuric Acid	
S03	Waste Pile	Cubic Yards or Cubic Meters	T92	Halogen Acid Furnaces	
S04	Surface Impoundment Storage	Gallons; Liters; Cubic Meters; or Cubic Yards	193	Other Industrial Furnaces Listed In 40 CFR §260.10	
S05	Drip Pad	Gallons; Liters; Acres; Cubic Meters; Hectares; or Cubic Yards	T94	Containment Building - Treatment	Cubic Yards; Cubic Meters; Short Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour; Pounds Per Hour; Short Tons
S06	Containment Building Storage	Cubic Yards or Cubic Meters			Per Day; Kilograms Per Hour; Metric Tons Per Day; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per
S99	Other Storage	Any Unit of Measure in Code Table Below			Hour
	Treatment:			<u> Miscellaneous (Subpart X)</u> :	
T01	Tank Treatment	Gallons Per Day; Liters Per Day	X01	Open Burning/Open Detonation	Any Unit of Measure in Code Table Below
Т02	Surface Impoundment Treatment	Gallons Per Day; Liters Per Day	X02	Mechanical Processing	Short Tons Per Hour; Metric Tons Per Hour; Short Tons Per Day; Metric Tons Per Day: Pounds Per Hour: Kilograms Per
Т03	Incinerator	Short Tons Per Hour; Metric Tons Per Hour; Gallons Per Hour; Liters Per Hour; Btu Per Hour;			Hour; Gallons Per Hour; Liters Per Hour; or Gallons Per Day
		Pounds Per Hour; Short Tons Per Day; Kilograms Per Hour; Gallons Per Day; Liters Per Day; Metric Tons Per Hour; or Million Btu Per Hour	X03	Thermal Unit	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour: Metric Tons Per Day; Metric
T04	Other Treatment	Gallons Per Day; Liters Per Day; Pounds Per Hour; Short Tons Per Hour; Kilograms Per Hour;			Tons Per Hour; Short Tons Per Day; Btu Per Hour; or Million Btu Per Hour
		Metric Tons Per Day; Metric Tons Per Hour; Short Tons Per Day; Btu Per Hour; Gallons Per Day; Liters Per Hour; or Million Btu Per Hour	X04	Geologic Repository	Cubic Yards; Cubic Meters; Acre-feet; Hectare-meter; Gallons; or Liters
T80	Boiler	Gallons; Liters; Gallons Per Hour; Liters Per	X99	Other Subpart X	Any Unit of Measure Listed Below
		Hour: Btu Per Hour: or Million Btu Per Hour			

UNIT OF UNIT OF	UNIT OF	UNIT OF	UNIT OF	UNIT OF
MEASURE MEASURE CODE	MEASURE	MEASURE CODE	MEASURE	MEASURE CODE
Gallons.GGallons Per Hour.EGallons Per Day.ULiters.LLiters Per Hour.HLiters Per Day.V	Short Tons Per Hour	D	Cubic Yards	Y
	Metric Tons Per Hour	W	Cubic Meters	C
	Short Tons Per Day	N	Acres	B
	Metric Tons Per Day	S	Acre-feet	A
	Pounds Per Hour	J	Hectares	Q
	Kilograms Per Hour	R	Hectare-meter	F
	Million Btu Per Hour	X	Btu Per Hour	I

5. P	EXA	MPL	E FOR		FLETING Item 8 (Shown in the number A-1 below). A	Tacinty	nas a stora	ge tan	r, winch	can no	<i>iu</i> 555				
					B. PROCESS DESIGN CAPACI	TY			6).					
Li Nur	ne 1ber	Proc (Froi	A. cess (m list al	Code	(1) Amount (Specify)		(2) Un Meas (Enter c	it of Ire	Proces Numl Un	s Total ber of its		For (Officia	l Use	Only
x	1	S	0	2	533.	.788	3 G		0 () 1					
	1														
	2														
	3														
	4					-									
	5														
	6					-									
	7					-									
	8														
	9														
1	0					-									
1	1					•									
1	2					•									
1	3					-									
4	4														
1					-	•									
1	5 NOT	E: If	you n	eed to	۔ ب o list more than 15 process codes, attach an additional بر taking into account any lines that will be used for "و	I sheet(s) with the i	nforma	ation in t	he sam	e form	nat as	above	e. Nun	ber
1 . C	5 NOT the I ther F ne	E: If lines Proce	you n seque sses	eed to entiall (See i	o list more than 15 process codes, attach an additional y, taking into account any lines that will be used for "c nstructions on page 25 and follow instructions from It B. PROCESS DESIGN CAPACITY	I sheet(s other" pi tem 8 for) with the i rocesses (i r D99, S99,	nforma e., D99 T04 an	ation in t 9, S99, T nd X99 pl C.	he sam 04 and rocess	e form X99) i codes	nat as in Item	above 19.	e. Nun	ber
1 1 . C Li Nur Ente sequ	5 NO1 the I ther F ne nber r #s in rence tem 8)	FE: If lines Proce Proc	you n seque sses A. cess (n list al	eed te entiall (See i Code	o list more than 15 process codes, attach an additional y, taking into account any lines that will be used for "c nstructions on page 25 and follow instructions from It B. PROCESS DESIGN CAPACITY (1) Amount (Specify)	I sheet(s other" pi tem 8 for , (2) Me (Ent) with the i rocesses (i r D99, S99, Unit of asure er code)	nforma e., D99 T04 an Proc Nu	ation in t 9, S99, T nd X99 p C. cess Tot umber of Units	he sam 04 and rocess al	e form X99) i codes D. D	nat as in Item i) Descri	above 1 9.	e. Nun	ber
1 1 L Vur Ente sequ vith	5 NO1 the f ther F nber #s in ence tem 8) 2	FE: If lines Proce Proce (Fron	you n seque sses A. cess (n list al 0	eed to entiall (See i Code bove) 4	o list more than 15 process codes, attach an additional y, taking into account any lines that will be used for "constructions on page 25 and follow instructions from It B. PROCESS DESIGN CAPACITY (1) Amount (Specify) 1 0 0 .0 0 0	I sheet(s other" pr tem 8 for (2) Me (Ent) with the i rocesses (i D99, S99, Unit of asure er code) U	nforma e., D9 T04 an Proc Nu 0	ation in t 9, S99, T nd X99 pr C. cess Tot umber of Units 0 1	he sam i04 and rocess al	e form X99) i codes D. D	nat as in Item i) Descrij	above n 9. ption ation	e. Num	aber
1 1 0. C Li Nui Ente sequ vith X	5 NO1 ther F ne nber r #s in ence tem 8) 2	FE: If lines Proce Proc (From	you n seque sses A. cess (n list al 0	code bove)	o list more than 15 process codes, attach an additional y, taking into account any lines that will be used for "c nstructions on page 25 and follow instructions from It B. PROCESS DESIGN CAPACITY (1) Amount (Specify) 1 0 0 . 0 0 0	I sheet(s other" pi tem 8 for , (2) Me (Ent) with the i rocesses (i r D99, S99, Unit of asure er code) U	nforma e., D99 T04 an Proc Nu 0	ation in t 9, S99, T ad X99 pr C. cess Tot umber of Units 0 1	he sam 04 and rocess al In	e form X99) i codes D. D situ V	hat as in Item i) Descri _l /itrific	above n 9. ption ation	e. Num	cess
1 1 . C L Vur ≣nte sequ ith X	5 NO1 the f ther F ne nber r #s in ence tem 8) 2	E: If lines Proce (Fron T	you n seque sses A. cess (n list al 0	eed to entiall (See i (See i Code bove) 4	o list more than 15 process codes, attach an additional y, taking into account any lines that will be used for "c nstructions on page 25 and follow instructions from It B. PROCESS DESIGN CAPACITY (1) Amount (Specify) 1 0 0 . 0 0 0	I sheet(s other" pi tem 8 for , (2) Me (Ent) with the i rocesses (i r D99, S99, Unit of asure er code) U	nforma e., D9 T04 an Proc Nu 0	ation in t 9, S99, T ad X99 p C. Cess Tot umber of Units 0 1	he sam 04 and rocess al In	e form X99) i codes D. D situ V	pat as in Item i) Descrij /itrific	above 19. ption ation	e. Num	ber
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10. Description of Hazardous Wastes (See instructions on page 25) - Enter information in the Sections on Form Page 5.

- A. EPA HAZARDOUS WASTE NUMBER Enter the four-digit number from 40 CFR, Part 261 Subpart D of each listed hazardous waste you will handle. For hazardous wastes which are not listed in 40 CFR, Part 261 Subpart D, enter the four-digit number(s) from 40 CFR Part 261, Subpart C that describes the characteristics and/or the toxic contaminants of those hazardous wastes.
- B. ESTIMATED ANNUAL QUANTITY For each listed waste entered in Section A, estimate the quantity of that waste that will be handled on an annual basis. For each characteristic or toxic contaminant entered in Section A, estimate the total annual quantity of all the non-listed waste(s) that will be handled which possess that characteristic or contaminant.
- C. UNIT OF MEASURE For each quantity entered in Section B, enter the unit of measure code. Units of measure which must be used and the appropriate codes are:

ENGLISH UNIT OF MEASURE	CODE	METRIC UNIT OF MEASURE	CODE
POUNDS	Ρ	KILOGRAMS	К
TONS	Т	METRIC TONS	М

If facility records use any other unit of measure for quantity, the units of measure must be converted into one of the required units of measure, taking into account the appropriate density or specific gravity of the waste.

D. PROCESSES

1. PROCESS CODES:

For listed hazardous waste: For each listed hazardous waste entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the listed hazardous wastes.

For non-listed hazardous waste: For each characteristic or toxic contaminant entered in Section A, select the code(s) from the list of process codes contained in Items 8A and 9A on page 3 to indicate all the processes that will be used to store, treat, and/or dispose of all the non-listed hazardous wastes that possess that characteristic or toxic contaminant.

NOTE: THREE SPACES ARE PROVIDED FOR ENTERING PROCESS CODES. IF MORE ARE NEEDED:

- 1. Enter the first two as described above.
- 2. Enter "000" in the extreme right box of Item 10.D(1).
- 3. Use additional sheet, enter line number from previous sheet, and enter additional code(s) in Item 10.E.
- 2. PROCESS DESCRIPTION: If a code is not listed for a process that will be used, describe the process in Item 10.D(2) or in Item 10.E(2).

NOTE: HAZARDOUS WASTES DESCRIBED BY MORE THAN ONE EPA HAZARDOUS WASTE NUMBER - Hazardous wastes that can be described by more than one EPA Hazardous Waste Number shall be described on the form as follows:

- 1. Select one of the EPA Hazardous Waste Numbers and enter it in Section A. On the same line complete Sections B, C and D by estimating the total annual quantity of the waste and describing all the processes to be used to treat, store, and/or dispose of the waste.
- 2. In Section A of the next line enter the other EPA Hazardous Waste Number that can be used to describe the waste. In Section D(2) on that line enter "included with above" and make no other entries on that line.
- 3. Repeat step 2 for each EPA Hazardous Waste Number that can be used to describe the hazardous waste.

EXAMPLE FOR COMPLETING Item 10 (shown in line numbers X-1, X-2, X-3, and X-4 below) - A facility will treat and dispose of an estimated 900 pounds per year of chrome shavings from leather tanning and finishing operations. In addition, the facility will treat and dispose of three non-listed wastes. Two wastes are corrosive only and there will be an estimated 200 pounds per year of each waste. The other waste is corrosive and ignitable and there will be an estimated 100 pounds per year of that waste. Treatment will be in an incinerator and disposal will be in a landfill.

		L	A EF	l. PA	c	B. Estimated	C.	D. PROCESSES									
Liı Num	ne Iber	(E	Vast Inter	e No cod	s e)	Quantity of Waste	Measure (Enter code)		(1) PROCESS CODES (Enter code)							(2) PROCESS DESCRIPTION- (If a code is not entered in D(1))	
Х	1	κ	0	5	4	900	Р	Т	0	3	D	8	0				
Х	2	D	0	0	2	400	Р	т	0	3	D	8	0				
Х	3	D	0	0	1	100	Р	т	0	3	D	8	0				
Х	4	D	0	0	2											Included With Above	

10. D	escri	ption	of H	lazar	dous	Wastes (Con	tinued. Use the	e Add	itional S	heet(s)	as ne	cessary	y; numl	per pag	jes as !	5 a, etc	.)
			4	۹ <i>.</i>		B.	•		D. PROCESSES								
Li. Nun	ne 1ber	 	EPA Hazardous Waste No. (Enter code)			Estimated Annual Quantity of Waste	C. Unit of Measure (Enter code)			(1) PR(DCESS		(2) PROCESS DESCRIPTION (If a code is not entered in D(1))				
	1																
	2																
	3																
	4																
	5																
	6																
	7																
	8																
	9																
1	0																
1	1																
1	2																
1	3																
1	4																
1	5																
1	6																
1	7																
1	8																
1	9																
2	0																
2	1																
2	2																
2	3																
2	4																
2	5																
2	6																
2	7																
2	8	1															
2	9	1															
3	0																
3	1																
3	2																
3	3																
3	4	1															
3	5	1															
3	6	1															
3	7	1															
3	8	1															L
3	9	1															

10. L	escrip	Juon		is wastes (Con	unuea. Use th	IS Add	Additional Sneet(S) as necessary; number as 5 a, etc.)									
			<i>A.</i>	В.	C. Unit of Measure (Enter code)		E. PROCESSES									
Li. Nun	Line Number		EPA Hazardous Waste No. Enter code)	Estimated Annual Quantity of Waste				(1) PR(DCESS	(2) PROCESS DESCRIPTION (If a code is not entered in E(1))						
4	0															
					1										<u> </u>	
					1										<u> </u>	
					+											
		-														
				_												

11. Map (See instructions on pages 25 and 26)

Attach to this application a topographic map, or other equivalent map, of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in this map area. See instructions for precise requirements.

12. Facility Drawing (See instructions on page 26)

All existing facilities must include a scale drawing of the facility (see instructions for more detail).

13. Photographs (See instructions on page 26)

All existing facilities must include photographs (aerial or ground-level) that clearly delineate all existing structures; existing storage, treatment and disposal areas; and sites of future storage, treatment or disposal areas (see instructions for more detail).

14. Comments (See instructions on page 26)

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8. PROCESS—CODES AND DESIGN CAPACITIES (continued)

The Waste Isolation Pilot Plant (WIPP) geologic repository is defined as a "miscellaneous unit" under 40 CFR §260.10. "Miscellaneous unit" means a hazardous waste management unit where hazardous waste is treated, stored, or disposed of and that is not a container, tank, surface impoundment, waste pile, land treatment unit, landfill, incinerator, containment building, boiler, industrial furnace, or underground injection well with appropriate technical standards under 40 CFR Part 146, corrective action management unit, or unit eligible for research, development, and demonstration permit under 40 CFR §270.65. The WIPP is a geologic repository designed for the disposal of defense-generated transuranic (TRU) waste. Some of the TRU wastes disposed of at the WIPP contain hazardous wastes as co-contaminants. More than half the waste to be disposed of at the WIPP also meets the definition of debris waste. The debris categories include manufactured goods, biological materials, and naturally occurring geological materials. Approximately 120,000 cubic meters (m³) of the 175,600 m³ of WIPP wastes is categorized as debris waste. The geologic repository has been divided into ten discrete hazardous waste management units (HWMU) which are being permitted under 40 CFR Part 264, Subpart X.

During the Disposal Phase of the facility, which is expected to last 25 years, the total amount of waste received from off-site generators and any derived waste will be limited to 175,600 m³ of TRU waste of which up to 7,080 m³ may be remote-handled (RH) TRU mixed waste. For purposes of this application, all TRU waste is managed as though it were mixed.

On March 25, 1996, the DOE reached the conclusion that in order to comply with 40 CFR 191 §13 which regulates the long-term release of radionuclides from a geologic disposal facility, it is necessary to add magnesium oxide to each disposal room. This additive is to be placed as a backfill. The function of the backfill is to chemically alter the composition of brine that may accumulate in the disposal region. The result of the chemical alteration is to significantly reduce the solubility of the prevalent TRU radionuclides.

The process design capacity for the miscellaneous unit (composed of ten underground HWMUs in the geologic repository) shown in Section XII B, is for the maximum amount of waste that may be received from off-site generators plus the maximum expected amount of derived wastes that may be generated at the WIPP facility. In addition, two HWMUs have been designated as container storage units (S01) in Section XII. One is inside the Waste Handling Building (WHB) and consists of the contact-handled (CH) bay, waste shaft conveyance loading room, waste shaft conveyance entry room, RH bay, cask unloading room, hot cell, transfer cell, and facility cask loading room. This HWMU will be used for waste receipt, handling, and storage (including storage of derived waste) prior to emplacement in the underground geologic repository. No treatment or disposal will occur in this S01 HWMU. The capacity of this S01 unit for storage is 194.1 m³, based on 36 ten-drum overpacks on 18 facility pallets, four CH Packages at the TRUDOCKs, one standard waste box of derived waste, two loaded casks and one 55-gallon drum of derived waste in the RH Bay, one loaded cask in the Cask Unloading Room, 13 55gallon drums in the Hot Cell, one canister in the Transfer Cell and one canister in the Facility Cask Unloading Room. The second S01 HWMU is the parking area outside the WHB where the Contact- and Remote-Handled Package trailers and the road cask trailers will be parked awaiting waste handling operations. The capacity of this unit is 50 Contact-Handled Packages and twelve Remote-Handled Packages with a combined volume of 242 m³. The HWMUs are shown in Appendix O3 as Figures O3-2, O3-3, and O3-4.

During the ten year period of the permit, up to 129,750 m³ of CH TRU mixed waste could be emplaced in Panels 1 to 7 and up to 1,985 m³ of RH TRU mixed waste could be emplaced in Panels 4 to 7. Panels 8, 9 and 10 will be constructed under the initial term of this permit. These latter areas will not receive waste for disposal under this permit.

RCRA PART A APPLICATION CERTIFICATION

The U.S. Department of Energy (DOE), through its Carlsbad Field Office, has signed as "owner and operator," and Washington TRU Solutions LLC, the Management and Operating Contractor (MOC), has signed this application for the permitted facility as "co-operator."

The DOE has determined that dual signatures best reflect the actual apportionment of Resource Conservation and Recovery Act (RCRA) responsibilities as follows:

The DOE's RCRA responsibilities are for policy, programmatic directives, funding and scheduling decisions, Waste Isolation Pilot Plant (WIPP) requirements of DOE generator sites, auditing, and oversight of all other parties engaged in work at the WIPP, as well as general oversight.

The MOC's RCRA responsibilities are for certain day-to-day operations (in accordance with general directions given by the DOE and in the Management and Operating Contract as part of its general oversight responsibility), including, but not limited to, the following: certain waste handling, monitoring, record keeping, certain data collection, reporting, technical advice, and contingency planning.

For purposes of the certification required by Title 20 of the New Mexico Administrative Code, Chapter 4, Part 1 (20.4.1 NMAC), Subpart IX, §270.11(d), the DOE's and the MOC's representatives certify, under penalty of law that this document and all attachments were prepared under their direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on their inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of their knowledge and belief, true, accurate, and complete for their respective areas of responsibility. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Owner and Operator Signature:

Title:	Manager, Carlsbad Field Office
for:	U.S. Department of Energy
Date:	· · ·

Co-Operator Signature: Title:

alaio.	
Title:	General Manager
for:	Washington TRU Solutions LLC
Date:	