



Department of Energy

Carlsbad Field Office P. O. Box 3090 Carlsbad, New Mexico 88221

SEP 1 6 2019

Mr. John E. Kieling, Chief Hazardous Waste Bureau New Mexico Environment Department 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6303



Subject: Notification of a Class 1 Permit Modification to the Waste Isolation Pilot Plant

Hazardous Waste Facility Permit Number: NM4890139088-TSDF

Dear Mr. Kieling:

Enclosed is a Notification of Class 1 Permit Modification for the following item:

Update Co-Permittee Project Manager

We certify under penalty of law that this document and all attachments were prepared under our direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on our 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 our knowledge and belief, true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please contact Mr. Michael R. Brown at (575) 234-7476.

Sincerely.

Kirk D. Lachman, Acting Manager

Carlsbad Field Office

Sean Dunagan, Project Manager Nuclear Waste Partnership LLC

Enclosure

cc: w/enclosure

R. Maestas, NMED *ED ED D. Biswell, NMED

M. McLean, NMED ED

CBFO M&RC

*ED denotes electronic distribution

*		

Class 1 Permit Modification Notification

Update Co-Permittee Project Manager

Waste Isolation Pilot Plant Carlsbad, New Mexico

WIPP Permit Number - NM4890139088-TSDF

September 2019

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Transmittal Letter

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Acronyms, Abbreviations, and Units

CFR Code of Federal Regulations

DOE U.S. Department of Energy

NMAC New Mexico Administrative Code
NMED New Mexico Environment Department

Permit Waste Isolation Pilot Plant Hazardous Waste Facility Permit U.S. Department of Energy and Nuclear Waste Partnership LLC

PMN Permit Modification Notification

WIPP Waste Isolation Pilot Plant

Overview of the Permit Modification Notification

This document contains a Class 1 Permit Modification Notification (**PMN**) for the Waste Isolation Pilot Plant (**WIPP**) Hazardous Waste Facility Permit (**Permit**) Number NM4890139088-TSDF.

This PMN is being submitted by the U.S. Department of Energy (DOE) and Nuclear Waste Partnership LLC, collectively referred to as the Permittees, in accordance with Permit Part 1, Section 1.3.1. (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 changes which impact the Permit. 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 modifications to the text of the Permit have been identified using red text and <u>double underline</u> and a <u>strikeout</u> font for deleted information. All direct quotations are indicated by italicized text.

Attachment A

Description of the Class 1 Permit Modification Notification

Table 1. Class 1 Hazardous Waste Facility Permit Modification Notification

Item No.	Affected Permit Section	Change Description	Category
1	Attachment A, Section A-1, Facility Description Attachment B, Part A – Hazardous Waste Permit Application Part A	This modification revises Attachment A, Section A-1, Facility Description, and Attachment B, Hazardous Waste Permit Application Part A, to change the Project Manager for Nuclear Waste Partnership LLC from Mr. Bruce C. Covert to Mr. Sean Dunagan, effective September 13, 2019.	A.1

Item 1

Description

This modification revises Attachment A, Section A-1, Facility Description, and Attachment B, Hazardous Waste Permit Application Part A, to change the Project Manager for Nuclear Waste Partnership LLC from Mr. Bruce C. Covert to Mr. Sean Dunagan, effective September 13, 2019.

Basis

This change is classified as an "administrative and informational change" and is, therefore, a Class 1 modification pursuant to 20.4.1.900 NMAC (incorporating 40 CFR §270.42, Appendix I, A.1).

Discussion

On September 13, 2019, Mr. Sean Dunagan replaced Mr. Bruce C. Covert as the Project Manager and responsible official for Nuclear Waste Partnership LLC, the Co-Permittee at the WIPP facility. The revisions to Attachment A, Section A-1, and Attachment B reflect this change and are necessary, as Mr. Dunagan is the signatory authority for Nuclear Waste Partnership LLC. Attachment B was updated using the *United States Environmental Protection Agency RCRA Hazardous Waste Part A Permit Application Instructions and Form*, 8700-23 (OMB# 2050-0024; expires 5/31/2020).

Proposed Revised Permit Text:

ATTACHMENT A

GENERAL FACILITY DESCRIPTION AND PROCESS INFORMATION

A-1 Facility Description

Abstract

NAME OF FACILITY: Waste Isolation Pilot Plant

OWNER and CO-OPERATOR: U.S. Department of Energy

P.O. Box 3090 Carisbad, NM 88221

CO-OPERATOR: Nuclear Waste Partnership LLC

P.O. Box 2078

Carlsbad, NM 88221

RESPONSIBLE OFFICIALS: Kirk D. Lachman

Acting Manager, DOE/Carlsbad Field Office

Bruce C. CovertSean Dunagan

Project Manager, Nuclear Waste Partnership LLC

FACILITY MAILING ADDRESS: U.S. Department of Energy

P.O. Box 3090 Carlsbad, NM 88221

FACILITY LOCATION: 30 miles east of Carlsbad on the Jal Highway, in

Eddy County.

TELEPHONE NUMBER: 575/234-7300

U.S. EPA I.D. NUMBER: NM4890139088

GEOGRAPHIC LOCATION: 32° 22′ 30″ N

103° 47′ 30″ W

DATE OPERATIONS BEGAN: November 26, 1999

ATTACHMENT B HAZARDOUS WASTE PERMIT APPLICATION PART A

United States Environmental Protection Agency RCRA SUBTITLE CISITE IDENTIFICATION FORM



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			Distaining or updating an EPATD number for an on-going regulated activity that will continue for a period of ime. (Includes HSNF activity): (abouting as a component of the Ha, ardous Waste Report for																					
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			waste, or > 100 kg of as de naturidous waste sulfi clearers in one or more months of the reporting year (or State equivalent LOG regulations)																					
		Notify	Notifying that regulated activity is no longer occurring at this Site																					
		Übtaii	Distaining or updaking an EPA ID number for conducting Electronic Manifest Broker activities																					
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Contact Information		Same as Location Add
First Name Kirk	MI D	Last Name Lachman
Title Acting Mana	ger, Carlsbad Field Office (CBF	0)
Street Address P.O. Box 308	0	
City, Town, or Village Carlsbad		
State NM	Country USA	Zip Code 88221
Email Kirk.Lachman@cbfo.doe.go	DV	
Phone (575) 234-7300	Ext	Fax (575) 234-7027
Owner and Operator of the Site A. Name of Site's Logal Owner		Same as Location Ado
Full Name U.S. Department of Energy		Date Became Owner (mm/dd/yyyy 05/18/1981
Private County District Street Address P.O. Box 308		Municipal State Othe
City, Town, or Village Carlsbad		
	16	Track and
State NM	Country USA	Zip Code 88221
State NM Email Kirk.Lachman@cbfo.doe.g	ov	
State NM Email Kirk.Lachman@cbfo.doe.g Phone (575) 234-7300	ov	
State NM Email Kirk.Lachman@cbfo.doe.g Phone (575) 234-7300 Comments	ov	fax (675) 234-7027
State NM Email Kirk.Lachman@cbfo.doe.g Phone (575) 234-7300 Comments B. Name of Site's Legal Operator Full Name	Ext	Fax (675) 234-7027 Same as Location Ad Date Became Operator (mm/dd/y)
State NM Email Kirk.Lachman@cbfo.doe.g Phone (575) 234-7300 Comments B. Namo of Sito's Legal Operator Full Name U.S. Department of Energy Operator Type	Ext Ext Tribal	Fax (575) 234-7027 Same as Location Ad Date Became Operator (mm/dd/y) 05/18/1981
State NM Email Kirk.Lachman@cbfo.doe.g Phone (575) 234-7300 Comments B. Name of Sito's Legal Operator Full Name U.S. Department of Energy Operator Type Private County District	Ext Ext Tribal	Fax (575) 234-7027 Same as Location Ad Date Became Operator (mm/dd/y) 05/18/1981
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State NM Email Klrk.Lachman@cbfo.doe.g Phone (575) 234-7300 Comments B. Name of Site's Legal Operator Full Name U.S. Department of Energy Operator Type Private County District Street Address P.O. Box 308 City, Town, or Village Carlsbad	Ext Ext Tribal Country USA	Fax (675) 234-7027 Same as Location Ad Date Became Operator (mm/dd/y, 05/18/1981 Municipal State Othe

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EPA ID Number	N	М	4	8	9	0	1	3	9	0	8	8	l

OMB# 2050-0024; Expires 06/31/2020

Typo of Regulated Waste Activit	y (at	your sito)
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Mark "Yes" or "No" for all current activities (as of the date submitting the form); complete any additional boxes as instructed.

A. Hezardous Waste Activities

X		N	1.	G	ene	erator of H	lazardous Waste—If "Yes", mark only one of the following—a, b, c
			Ē	3		a. LQG	-Generates, in any calendar month (includes quantities imported by importer site) 1,000 kg/mo (2,200 lb/mo) or more of non-acute hazardous waste; or - Generates, in any calendar month, or accumulates at any time, more than 1 kg/mo (2.2 lb/mo) of acute hazardous waste; or - Generates, in any calendar month or accumulates at any time, more than 100 kg/mo (220 lb/mo) of acute hazardous spill cleanup material.
						b. SQG	100 to 1,000 kg/mo (220-2,200 lb/mo) of non-acute hazardous waste and no more than 1 kg (2.2 lb) of acute hazardous waste and no more than 100 kg (220 lb) of any acute hazardous spill cleanup material.
						c. VSQG	Less than or equal to 100 kg/mo (220 lb/mo) of non-acute hazardous waste.
If "Ye	's" a	bove	ni ,	dic	ate	other ger	nerator activities in 2 and 3, as applicable.
D'	X	N					nerator (generates from a short-term or one-time event and not from on-going s*, provide an explanation in the Comments section.
⊠ √		N	3.	М	ixe	d Waste (hazardous and radioactive) Generator
×Μ		N	4. th	Tr es	e a	ter, Storer ctivities.	or Disposer of Hazardous Waste Note: A hazardous waste Part B permit is required for
X		N	5.	Re	202	ives Hazar	dous Waste from Off-site
TY	X	N	6.	Re	сус	der of Hez	ardous Waste
]		٦	a. Recycle	r who stores prior to recycling
					1	b. Recycle	r who does not store prior to recycling
	X	N	7.	Ex	em	pt Boiler a	nd/or industrial Furnace—if "Yes", mark all that apply.
			[Ī		a. Small Q	uantity On-site Burner Exemption
			7		7	b. Smeltin	g, Melting, and Refining Furnace Exemption

B. Wasto Codes for Federally Regulated Hazardous Wastos. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g. D001, D003, F007, U112). Use an additional page if more spaces are needed.

D004	D009	D021	D029	D036	D040	F004
D005	D010	D022	D030	D038	D043	F005
D008	D011	D026	D032	D037	F001	F006
D007	D018	D027	D033	D038	F002	F007
D008	D019	D028	D034	D039	F003	See Item 18

C. Waste Codes for State Regulated (non-Federal) Hazardous Wastes. Please list the waste codes of the State hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed.

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TY MN	1. Tra	insporter of Hazardous WasteIf "Yes", mark all that apply.
<u> </u>	П	a. Transporter
	뭄	b. Transfer Facility (at your site)
Y MN	2. U	nderground Injection Control
□v ⊠n	3. Ur	nited States Importer of Hazardous Waste
TY M	4. Re	cognized Trader—If "Yes", mark all that apply.
		a. Importer
		b. Exporter
□	5. In that	porter/Exporter of Spent Lead-Acid Batteries (SLABs) under 40 CFR 266 Subpart $G-if$ "Yes", mapply.
		a. Importer
		b. Exporter
	apply.	Note: Refer to your State regulations to determine what is regulated. a. Batteries
□Y 図N │	 Large apply. 	ge Quantity Handler of Universal Waste (you accumulate 5,000 kg or more) - If "Yes" mark all th Note: Refer to your State regulations to determine what is regulated.
	Ш	a. Batteries
	-	1 m alatina
	Щ	b. Pesticides
	비	b. Pesticides c. Mercury containing equipment
		c. Mercury containing equipment
		c. Mercury containing equipment d. Lamps
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	2. Do	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this
	activit	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y.
C. Usod Oil A	activit ctivitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y.
	activit ctivitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y. s d Oil Transporter—If "Yes", mark all that apply.
C. Usod Oil A	activit ctivitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y.
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C. Usod Oil A	ctivitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y. s d Oil Transporter—If "Yes", mark all that apply. a. Transporter
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C. Usod Oil A	ctivitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y. a d Oil Transporter—If "Yes", mark all that apply. a. Transporter b. Transfer Facility (at your site) d Oil Processor and/or Re-refiner—If "Yes", mark all that apply.
C. Usod Oil A	activitio	c. Mercury containing equipment d. Lamps e. Other (specify) f. Other (specify) g. Other (specify) estination Facility for Universal Waste Note: A hazardous waste permit may be required for this y. s d Oil Transporter—If "Yes", mark all that apply. a. Transporter b. Transfer Facility (at your site) d Oil Processor and/or Re-refiner—If "Yes", mark all that apply. a. Processor

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	igiblo Acado es pursuant t						rios —	Noti	ficatio	on (for opt	ing in	to or	withdrawing from managing laboratory hazardous
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	<u> </u>] 1	. Call	ege o	r Uni	versi	Y						
] 2	. Teac	hing	Hosp	oital t	hat is	own	ed	by or h	as a	orma	l written affiliation with a college or university
] 3	. Non	-prof	it Ins	titute	that	is ow	vne	d by or	has .	forn	nal written affiliation with a college or univer-
		į B.	With	Irawi	ng fro	om 40	CFR	262 9	ubpa	arti	K for th	ne ma	nage	ment of hazerdous wastes in laboratories.
13. E	pisodic Gond	ratio	n											
	□	na		than	60 d	ays, I	that n	nove						a planned or unplanned episodic event, lasting or category. If "Yes", you must fill out the Ad-
14. 14	QG Consolid	etion	of VS	OG H	azard	ous l	N'aste							
	□	I Ar	e you	an LC	QG no	tifyir	ug of o	consc						Waste Under the Control of the Same Person Addendum for LQG Consolidation of VSQGs
15. N	ictification o	f LOG	Site (Closu	re fo	a Co	ntral	Accu	mula	ıtio	n Area	ICAA) (op	tional) OR Entire Facility (required)
	□	т-		-										ntire Facility.
		_ <u>_</u>	C	entra	l Aca	umuk	tion	Area	(CAA	A) 01	Ent	re fa	dity	
		В	Expe	cted	dosu	re da	te:_			_	mm/de	d/yyy	γ	
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		٦	. Date		_		h the		ım/d			·e sta	ndaro	is 40 CFR 262.17(a)(8)
		F							•					dards 40 CFR 262.17(a)(8)
16. N	otification o	f Hazı	ndou	s Soci	onda	ry Ma	toria	1 (HS	M) A	ctiv	rity			
		Ing	haza	rdous	seco	ndar	y mai	terlal	unde	er 40	O CFR 2	260.3	0, 40	n managing, are managing, or will stop manag- CFR 261.4(a)(23), (24), or (27)? If "Yes", you for Managing Hazardous Secondary Material.
		ha: int	rardo erme: tion.	us co: diate	nstitu but t	ents hat th	that a	ere n cyclin	ot co g is si	mp till l	arable legitim	to or ata?	unab f "Yes	product of your recycling process has levels of le to be compared to a legitimate product or "", you may provide explanation in Comments legitimate and maintain that documentation on
17. E	lectronic Ma	nifost	Brok	er			-							
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18. Comments (include item number for each comment)

Section 9.B (continued):		-
Full Name: Nuclear Waste Po	rtnership LLC	
Date Became Operator (mm/	dd/yyyy): 10/01/2012	
Operator Type: Private		
Street Address: P.O. Box 207	78	
City, Town, or Village: Carist	ad	
State: NM	Country: USA	Zip Code: 88221
Email: Sean.Dunagan@wipp	ws	
Phone: (575) 234-7400	Ext:	Fax: (575) 234-7046
Section 10.B (continued): F0	09, P015, P030, P098, P099, P1	108, P120, U002, U003, U019, U037, U043,
U044, U052, U070, U072, U07	8, U079, U103, U105, U108, U1	22, U133, U134, U161, U154, U159, U198,
U209, U210, U220, U228, U22	8, U239	

19. Cartification I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my 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 my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations. Note: For the RCRA Hazardous Wasto Part A pormit Application, all owners and operators must sign (see 40 CFR 270.10(b) and 270.11).

Signature of legal owner, operator or authorized representative Original Signature on File	Date (mm/dd/yyyy) 09/16/2019
Printed Name (First, Middle Initial Last) Kirk D. Lachman	Title Acting Manager, Carlsbad Field Office (CBFO)
^{Email} Kirk.Lachman@cbfo.doe.gov	
Signature of legal owner, operator or authorized representative Original Signature on File	Date (mm/dd/yyyy) 09/16/2019
Printed Name (First, Middle Initial Last) Sean Dunagan	Title Project Manager, Nuclear Waste Partnership LLC
Email Sean.Dunagan@wipp.ws	

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United States Environmental Protection Agency HAZARDOUS WASTE PERMIT PART A FORM



1	Facility	Barmit	Contac

First Name	Same as Site Contact	MI	Last Name
Title			
Email			
Phone		Ext	Fax

7. Facility Permit Contact Mailing Address

Street Address Same as Site Mailing Address									
City, Town, or Village									
štæe	Country	Ziplugge							

3. Facility Existence Date (mm/dd/yyyy)

05/18/	1981	

4. Other Environmental Permits

A Permit Type				b	Per	mit	Mum	ber			û Description	
												See Permit Attachment B, Appendix B1
			_	_			-			H	 -	
	_	 _	L	_	_	_		_	_	_	<u> </u>	

5. Nature of Business

unloading, and transferring radioactive mixed waste from the surface of the site to the underground hazardous waste management units. Waste is emplaced in an underground geologic repository horizon located in a deep-bedded salt formation approximately 2,150 feet beneath the surface.	The Waste Isolation Pilot Plant (WIPP) is a U.S. I	Department of Energy facility which entails receiving,
	unloading, and transferring radioactive mixed w	aste from the surface of the site to the underground
located in a deep-bedded salt formation approximately 2,150 feet beneath the surface.	hazardous waste management units. Waste is e	mplaced in an underground geologic repository horizon
	located in a deep-bedded salt formation approxi	m ately 2,150 feet beneath the surface.

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6. Process Codos and Design Capacities

LI	Line		Process	Code	8. Process Des	sign Capacity	C. Process Total	D. Unit Name		
Nur	nber				(1) Amount	(2) Unit of Measure	Number of Units	D. One Name		
	1	X	0	4	18000.00	С	002	Panels 1 and 2		
	2	X	0	4	18760.00	C	001	Panel 3		
	3	X	٥	4	19106.00	C	001	Panel 4		
	4	X	0	4	19195.00	С	001	Panel 5		
								See attached		

7. Description of Hazardous Wastes (Enter codes for Items 7.A, 7.C and 7.D(1))

	A. EPA Hezardous Une No. Waste No.		ЕРА Н	azard	ous	B. Estimated	C. Unit of	D. Processes									
Line				Annual Qty of Wasto	Measure	(1) Process Codes								(2) Process Description (if code is not entered in 7.D1))			
	1	D	0	0	4	803	M	X	0	4	S	0	4	S	0	1	
	2	D	0	٥	5	484	M	X	0	4	S	0	1	S	٥	7	
	3	D	0	0	6	1819	M	X	0	4	s	0	1	S	٥	1	
	4	D	0	٥	7	1248	М	X	0	4	s	0	1	S	٥	1	
	5	٥	0	0	8	3246	M	X	0	4	s	0	1	S	0	1	
	6	۵	0	0	9	1727	M	X	0	4	S	0	1	S	٥	1	
	7	٥	٥	1	0	188	M	X	0	4	S	٥	1	S	٥	1	
	8	D	٥	1	1	1090	M	X	0	4	S	0	1	S	0	1	
	9	D	0	1	8	749	M	X	0	4	S	0	1	s	0	1	
1	0	D	0	1	9	761	M	X	0	4	s	0	1	S	0	1	
									Γ		Γ					Γ	See attached

8. Map

Attach to this application a topographical 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 intake and discharge structures, each of its hazardous wasto treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all spring, rivers, and other surface water bodies in this map area. See instructions for precise requirements.

9. Facility Drawing

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

10. Photographs

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

11. Comments

See Hazardous Waste Permit Part A Form, Narrative to Item 6. Process Codes and Design Capacities.											

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RCRA PART A APPLICATION CERTIFICATION

The U.S. Department of Energy (DOE), through its Carlsbad Field Office, has signed as "owner and operator," and Nuclear Waste Partnership 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: for:		Original signed by Kirk D. Lachman Acting Manager, Carlsbad Field Office U.S. Department of Energy	
Co-Operator Signature:	Date:	09/16/2019 Original signed by Sean Dunagan	
•	Title: for: Date:	Project Manager Nuclear Waste Partnership LLC 09/16/2019	