

Michelle Lujan Grisham Governor

> Howie C. Morales Lt. Governor

June 29, 2020

NEW MEXICO ENVIRONMENT DEPARTMENT

Hazardous Waste Bureau 2905 Rodeo Park Drive East, Building 1 Santa Fe, New Mexico 87505-6313 Phone (505) 476-6000 Fax (505) 476-6030 www.env.nm.gov



James C. Kenney Cabinet Secretary

Jennifer J. Pruett Deputy Secretary

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Kirk Lachman, Manager Department of Energy-EM-LA Los Alamos Field Office P.O. Box 1663, MS M984 Los Alamos, NM 87545 Elizabeth Lowes, Program Manager Environment, Safety and Health Newport News Nuclear BWXT-Los Alamos 1200 Trinity Drive, Suite 150 Los Alamos, NM 87544

RE: APPROVAL CLASS 1 PERMIT MODIFICATION REQUEST REQUIRING PRIOR APPROVAL TREATMENT IN CONTAINERS AT TA-54, PAD 9, DOME 231 LOS ALAMOS NATIONAL LABORATORY EPA ID#NM0890010515 HWB-LANL-19-032

Dear Mr. Lachman and Ms. Lowes:

The New Mexico Environment Department (NMED) has received the United States Department of Energy (DOE) and the Newport New Nuclear BWXT-Los Alamos (N3B) (collectively the Permittees) *Class 1 Permit Modification Request Requiring Prior Approval for Treatment in Containers for Los Alamos National Laboratory Hazardous Waste Facility Permit* (PMR) dated and received January 27, 2020, and referenced by N3B-20-0007.

The Permittees have submitted this PMR to add treatment processes necessary to treat hazardous waste which are restricted from land disposal at Technical Area (TA) 54, Area G, Pad 9, Dome 231 in accordance with 40 Code of Federal Regulations (CFR) 270.42 Appendix I, item F.1.c requiring prior approval by NMED. The PMR updates the text and figures in Permit Part 7, Attachments A, B, C, E, G.10, J, and N.

NMED met with the Permittees on February 25, 2020 to discuss the PMR. In addition to the changes request, NMED has made typographical corrections and minor changes to Permit Part 7, Attachments A, C and E; please see Enclosure 1 for more information.

Mr. Lachman and Ms. Lowes Page 2

An electronic version of the Permit that incorporates the modifications is enclosed with this letter. The modified Permit is also available on the NMED's Hazardous Waste Bureau website at: <u>https://www.env.nm.gov/hazardous-waste/lanl-permit/</u>

If you have any questions regarding this letter, please contact Siona Briley of my staff at (505) 476-6049.

Sincerely,

Kevin M. Pierard, Chief Hazardous Waste Bureau

Enclosure:

1)

Table 1

cc:

N. Dhawan, NMED HWB S. Briley, NMED HWB M. Schatz, NMED HWB L. King, US EPA Region 6 A. Duran, EM-LA S. Hoffman, EM-LA K. Armijo, NA-LA S. Story-Hughes, NA-LA E. Day, N3B E. Torres, Triad P. Padilla, Triad P. Maestas, N3B W. Alexander, N3B emla.docs@em.doe.gov n3brecords@em-la.doe.gov

File: 2020 LANL Permit, Approval, Class 1* PMR to add Treatment at Technical Area 54, Pad
9, Dome 231
LANL-19-032

Location(s)	Originally Requested	NMED Modifications in	Rationale
	Text	red, Permittees	
		Modifications in blue	
Permit Part 7, Sections	at TA 54, Area G, Pad 9	at TA 54, Area G, Pad 9 <mark>,</mark>	To be consistent
7.1 and 7.4; and	within TA 54-0231	Dome 231, Perma-Con	throughout the
Attachments A.4.2.1,			document
C.3.2.4,	TA-50-0069	TA-50-69	
Permit Part 7.3(3) and	[blank]	In cases where there is	Permittees requested
Attachment A.4.2.1		insufficient volume of	on April 10, 2020 that
		liquid waste, the	this paragraph be
		neutralization step of the	added to clarify how
		treatment process won't	small volumes of liquid
		be performed and these	waste will be handled
		minute quantities of	by waste operators
		liquids will be stabilized	
		with zeolite or a WIPP-	
		approved absorbent only.	
Attachment A.4.2.1,	repacking process:	repacking processes	Fixed typographical
Attachment A 4 2 1	fine data ati an avatana		error Fixed two seven bias
Attachment A.4.2.1,	fire detection system	a fire detection system	Fixed typographical
Attachment A 4 2 1	mont desision aritaria	most a specific desision	Clarified
Attachment A.4.2.1,	meet decision criteria	criterian	Clarifieu
Attachment A 4 2 1		The Permittees will	Dermittees provided
Attachment A.4.2.1		avaluate the waste matrix	additional datail of
		complexity, which in this	adultional detail of
		instance refers to the	
		ability of the Permittees	
		to treat process and	
		repackage waste with or	
		without manipulation of	
		the waste inside the	
		drum. When	
		manipulation of the waste	
		inside the drum is not	
		needed for the retrieval of	
		a prohibited item, waste	
		consolidation, and/or sort,	
		segregate, and size	
		reduction activities then	
		the waste will be	
		processed outside of the	
		glove bag but inside the	
		confines of the Permacon.	
		If the Permittees	
		determine that the	

Enclosure 1: Table 1, NMED Modification to the Class 1 Permit Modification Request

		retrieval or resolution of a prohibited item will require the manipulation of the waste inside the drum, this retrieval, resolution or treatment, will take place inside a glove bag. The Permittees will utilize RTR informational scans to make the determination if a prohibited item removal or if waste consolidation is possible. If a prohibited item is present, then it will be removed and necessary activities such as: sort, segregate, or size reduction will be conducted as necessary for repacking or waste consolidation purposes inside of the glove bag or outside of the glove bag but inside of the Perma- Con.	
Attachments A.4.2.1, and C.3.2.4.1	Additionally, N3B will generally follow EPA Method 9040C-pH Electrometric Measurement of pH Testing. However, because of the need for "real-time" pH screening results at the time of waste processing, strict adherence to all aspects of EPA Method 9040C are not possible.	, Additionally, N3B the Permittees will generally follow EPA Method 9040C-(as updated) pH Electrometric Measurement of pH Testing. However, because of the need for "real-time" pH screening results at the time of waste processing, strict adherence to all aspects of EPA Method 9040C or an equivalent method, if approved by NMED in advance will be followed observed.	Replaced N3B with the Permittees, to reduce future changes in the permit due to changes in contractors. Added 'as updated' to allow for updated EPA methods to be used. Discussed changes to pH Electrometric Measurement method, and the change in language was agreed to by Permittees on February 25, 2020. If an equivalent method is proposed to be used, it will be provided to NMED as supplemental

			information.
Attachment C, List of Tables, C-20	Description of Stabilization Waste Streams at Area 50, Building 69	Description of Stabilization Waste Streams at Technical Area 50, Building 69, and Technical Area 54, Dome 231	Changed to be consistent with new table title.
Attachment C.3.2.4	Treatment of cemented sludge waste will occur within glove bags located Permitted Unit, at in TA-54-0231. Treatment activities include neutralization of liquids, and stabilization of liquids using zeolite or another WIPP-approved absorbent.	Treatment of cemented sludge waste will occur within glove bags located inside the Permitted Unit, a Perma-Con, in TA-54- 0231. Treatment activities includes neutralization of liquids, and stabilization of liquids using zeolite or another WIPP-approved absorbent.	Fixed typographical errors
	Table C-20 provides a description of the waste streams associated with the stabilization (including absorption) and neutralization inside a glove bag located within a Perma-Con in TA-54-0231; and identifies their potentially applicable EPA Hazardous Waste Numbers prior to	Table C-20 provides a description of the waste streams associated with the stabilization (including absorption) and neutralization inside a glove bag located within a Perma-Con in TA-54-0231; and identifies their potentially applicable EPA Hazardous Waste Numbers (HWNs) prior to treatment.	Included HWN abbreviation since it is used later in paragraph.
	treatment. After treatment, only the EPA HWNs D001 and D002 will be removed. To remove the D003, aerosol cans will be removed/segregated from the waste stream and sent off-site for treatment and disposal. All other HWNs will still apply to the waste.	EPA HWNs D001 and D002 will be removed from the treated waste. To remove the D003 HWN, aerosol cans will be removed/segregated from the waste stream and sent off-site for treatment and disposal. All other HWNs that have not been removed by treatment or segregation will still apply to the treated waste.	Made edits for consistency and to clarify that the approved treatment methods only remove the D001, D002 and D003 waste codes.

Attachments E.3.1 and	cementation unit	stabilization unit	Fixed typographical
E.3.1			error