

N3B – Los Alamos 600 6th Street Los Alamos, New Mexico 87544 (505) 661-5918





Environmental Management Los Alamos Field Office P.O. Box 1663, MS M984 Los Alamos, New Mexico 87545 (505) 665-5658/FAX (505) 606-2132

Date: MAR 0 5 2019
Refer To: N3B-19-0065

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

Subject: Response to Request for Information Regarding Damage to Technical Area 54
Domes 229 and 230 and Compliance with Los Alamos National Laboratory
Hazardous Waste Facility Permit, EPA ID No. NM0890010515

Dear Mr. Kieling:

This letter is in response to the New Mexico Environment Department Hazardous Waste Bureau's (NMED-HWB's) request on January 25, 2019, for more information regarding the damage to Domes 229 and 230, located in Technical Area 54 (TA-54). These domes are permitted under the Los Alamos National Laboratory (LANL) Hazardous Waste Facility Permit (the Permit, EPA ID No. NM0890010515) issued to the U.S. Department of Energy (DOE); Triad National Security, LLC; and Newport News Nuclear BWXT – Los Alamos, LLC (N3B) (the Permittees). The N3B Contact-Handled Transuranic Waste (CH-TRU) Program manages and operates the TA-54 facilities.

NMED-HWB requested by email the following information on January 25, 2019:

- 1. Date incident occurred, and how and when it was reported to NMED and recorded in the facility operating record
- 2. Photographs documenting amount of snow, its proximity to containers, and size and location of damage to the domes
- 3. Weekly inspection reports for the week of the incident and weeks following the incident
- 4. Repair plans and a schedule to complete repairs
- 5. Information on if the snow has melted, and when the snow will be removed from the domes
- 6. Impacts on the waste stored in the containers in these domes
- 7. Describe if any of the drums stored in the domes contain liquids and if any snow/water is in the secondary containment

8. Review the Permit requirements to ensure that LANL is in compliance with all the relevant Hazardous Waste Facility Permit requirements, in particular with Sections 1.9.6, 1.9.13, 1.9.14, 2.6.2, 3.5.1(5), 3.7, 3.8, and 3.12. If not in compliance, provide information that may not be captured in the bulleted items above.

#### **Event Summary:**

On January 7, 2019, a notification was made to N3B management regarding potential structural integrity issues at Domes 229 and 230 in Area G at TA-54. Dome 229 was observed to have a broken dome structure cross member, along with broken and bent dome structure cross-member brackets, and torn dome fabric. Dome 230 was observed to have only broken and bent dome structure cross-member brackets and torn dome fabric. Because of the torn dome fabric, snow had fallen and entered into the dome; however, the snow was contained in the sump collection areas of each dome. No waste containers were impacted. Damage was the result of the largest snowfall to the Los Alamos area since 1986.

Immediate actions taken on January 7, 2019 are listed below:

- 1. Notification was made to Engineering to conduct a structural evaluation.
- 2. The area was isolated and personnel notified of the affected area.
- 3. Information was provided to Regulatory Compliance for potential reporting purposes per the Permit.
- 4. An extent of condition was performed of all other dome structures.
- 5. Facility service requests were submitted to correct the structural integrity issues at Domes 229 and 230.

#### **Response to NMED:**

- Damage to Domes 229 and 230 was discovered during routine weekly inspections and documented on Hazardous Waste Facility Inspection Record Forms (IRFs) dated January 7, 2019, and documented on the operation center log dated January 7, 2019.
   Documentation from the previous week indicated no damage to the structures. Inspections are conducted in accordance with Attachment E of the HWFP; inspections are required weekly and daily when waste is handled.
  - Evaluations within 24 hr of discovery indicated events did not meet the requirements of Permit Section 1.9.12, which requires notification to NMED-HWB within 24 hr of discovery. The DOE's Environmental Management Los Alamos Field Office (EM-LA) and N3B provided a courtesy notification call to NMED-HWB on January 25, 2019.
- 2. Enclosure 1 provides photos of Dome 229 and Enclosure 2 provides photos of Dome 230. The engineering diagram provided at the end of each enclosure illustrates the location of the damage to each dome and the relative distance between the snow and the closest waste containers. Distance from the snow to containers is approximately 25 ft in Dome 229 and approximately 15 ft in Dome 230.

- 3. Eight IRFs for both domes are included in the applicable enclosure. Inspections were conducted on January 4, 7, 15, 23, and 30 and February 7, 8, and 9.
- 4. Reskinning (i.e., replacement of the dome fabric) the domes had already been planned for 2019. A contract for reskinning multiple domes at TA-54 was issued in August 2018. Repairs and reskinning for Dome 230 will begin in March 2019. Repairs and reskinning for Dome 229 will begin in June 2019. During reskinning, the Permittees will ensure that all containers stored at these permitted units will remain in compliance with the provisions of the Permit.
- 5. Snow is still present in the Dome 230 sump and the Dome 229 sump. The remaining snow will be allowed to melt. At that time, if enough water is present to pump, it will be pumped out and managed per CH-TRU operational procedures and in accordance with the Permit.
- 6. Damage to Domes 229 and 230 and snow accumulation through January 4, 2019, did not impact hazardous waste containers in either dome. However, on a case-by-case basis, containers are being covered with tarps (i.e., fire retardant plastic) to protect them until domes are repaired and/or reskinned.
- 7. Domes 229 and 230 currently store waste that contain "free liquids." Dome 229 uses secondary containment pallets, which did not contain any snow accumulation or liquid resulting from the heavy snow fall. Dome 230 is a permitted secondary containment unit and the sump was impacted by snow accumulation. In accordance with Permit Section 3.7.1(2), the secondary containment system maintained sufficient capacity to prevent overflow and retained sufficient capacity to retain 10% of the waste volume within the dome.

#### 8. Permit Requirements

- a. **Section 1.9.6 Proper Operation & Maintenance** CH-TRU Operations noted the damage and took appropriate action per the facility procedures. No hazardous waste was impacted. Maintenance of the domes had already been scheduled, and the dome reskinning contract was awarded in August 2018. Dome reskinning and repair of this damage is scheduled to begin in March 2019. The Permittees believe they are in compliance with this Permit provision.
- b. Section 1.9.13 Written Reporting of a Non-threatening Release The damage to Domes 229 and 230 resulted in no release of any waste. No spills of any hazardous waste or any other types of materials occurred. Therefore, the Permittees do not believe this event required reporting per Permit Section 1.9.13. The Permittees believe they are in compliance with this Permit provision.
- c. **Section 1.9.14 Other Noncompliance** The Permittees do not believe the damage to Domes 229 and 230 constitutes a noncompliance of the current Permit and therefore the Permittees do not intend to report this event in the annual noncompliance report at this time. The Permittees believe they are in compliance with this Permit provision.

- d. **Section 2.6.2 Repair of Equipment and Structure** This provision states "The Permittees shall remedy any deterioration or malfunction of equipment or structures discovered during an inspection which may lead to an environmental or human health hazard." The damage to the domes did not lead to any human health or environmental hazard. CH-TRU Operations followed appropriate safety requirements and restricted access to the affected areas. Because the damage to the domes was located over the sumps, only access to the sumps was restricted. Waste management areas are not affected by the safety restrictions and therefore personnel have sufficient access to perform Permit-required inspections. The Permittees believe they are in compliance with this Permit provision.
- e. **Section 3.5.1(5) Storage Configuration & Aisle Space** No hazardous waste containers were impacted by this event. The Permittees believe they are in compliance with this Permit provision.
- f. Section 3.7 Containment Systems Hazardous waste containers were not impacted by this event. Solid snow remains in both sumps. Once the snow melts, if enough water is present to pump, it will be pumped out and managed per CH-TRU operational procedures and in accordance with the Permit. The small amount of snow does not impact the available secondary containment capacity of Dome 230. All containers in Dome 229 are stored on secondary containment pallets. The Permittees believe they are in compliance with this Permit provision.
- g. Section 3.8 Inspection Schedules and Procedures Weekly hazardous waste inspections were completed and continue to be performed. The restricted areas within the damaged domes are off limits to personnel but do not interfere with weekly hazardous waste inspections. The Permittees believe they are in compliance with this Permit provision.
- h. Section 3.12 TA-54 Container Storage Requirements Hazardous waste containers were not impacted by this event. Solid snow remains in both dome sumps. Currently, because the domes are not heated, a freeze/thaw cycle is occurring. Once the snow melts, if enough water is present to pump, it will be pumped out and managed per CH-TRU operational procedures and in accordance with the Permit. The small amount of snow does not significantly impact the available secondary containment capacity of Dome 230. Additionally, the solid snow was tested for radiological contamination using dried water smears, and no contamination was detected. All containers in Dome 229 are stored on secondary containment pallets. The Permittees believe they are in compliance with the provisions of this Permit provision.

After careful review of the Permit, our conclusion is that compliance was maintained throughout the incident. At no time was there danger to human health and the environment.

If you have comments or questions regarding this letter, please contact Emily Day at (505) 695-4243 (emily.day@em-la.doe-gov) or Arturo Duran at (505) 665-5330 (arturo.duran@em.doe.gov).

Sincerely,

Frazer Lockhart Program Manager

Regulatory and Stakeholder Interface

N3B – Los Alamos

Sincerely,

Arturo Q. Duran, Compliance and Permitting Manager

Office of Quality and Regulatory Compliance

Environmental Management Los Alamos Field Office

Enclosure(s): 1. Dome 229 Additional Information

2. Dome 230 Additional Information

Cy: (letter and enclosure[s] emailed)

Laurie King, EPA Region 6, Dallas, TX

Neelam Dhawan, NMED-HWB

Robert Murphy, NMED-HWB

Shelly Lemon, NMED-SWQB

Steve Yanicak, NMED-DOE-OB

Karen Armijo, NA-LA

Lee Bishop, EM-LA

Arturo Duran, EM-LA

Douglas Hintze, EM-LA

David Rhodes, EM-LA

Cheryl Rodriguez, EM-LA

Ben Underwood, EM-LA

William Mairson, LANL

Patrick Padilla, LANL

Enrique Torres, LANL

Lacey Bruaw, N3B

Emily Day, N3B

Stephanie Griego, N3B

Gail Helm, N3B

Joseph Legare, N3B

Dana Lindsay, N3B

Frazer Lockhart, N3B

Glenn Morgan, N3B

Danny Nichols, N3B

Ben Roberts, N3B

Stacie Singleton, N3B

David Solms, N3B

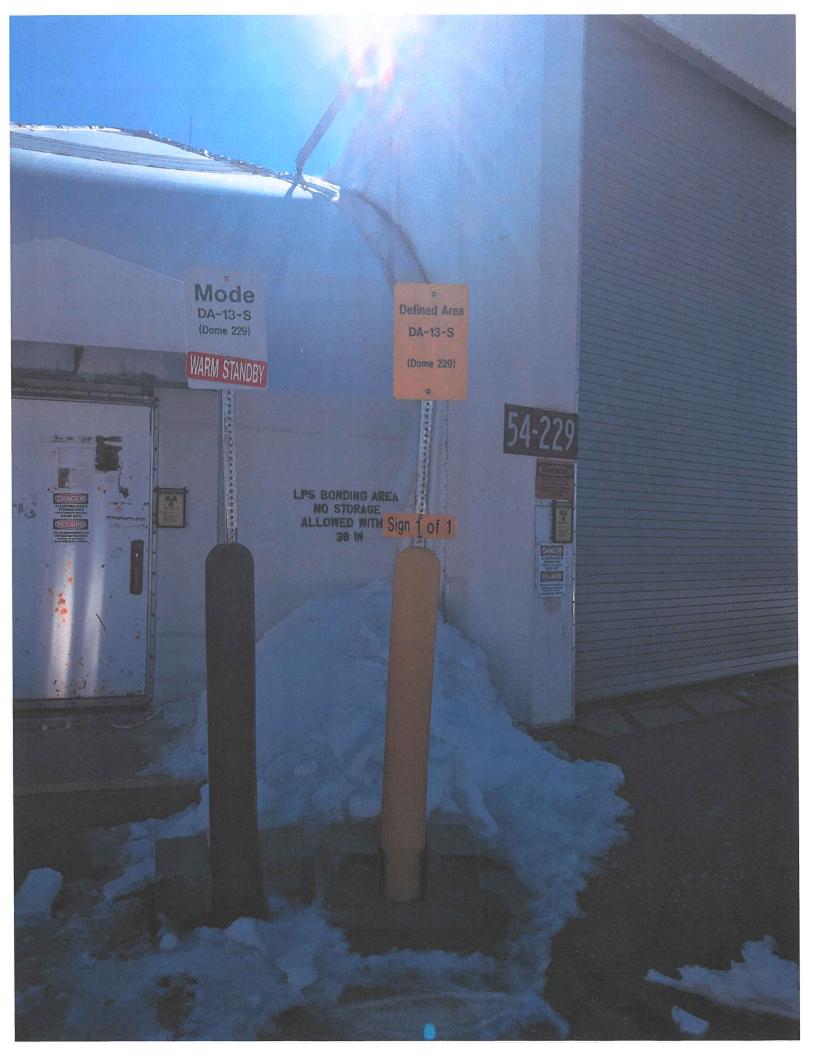
emla.docs@em.doe.gov

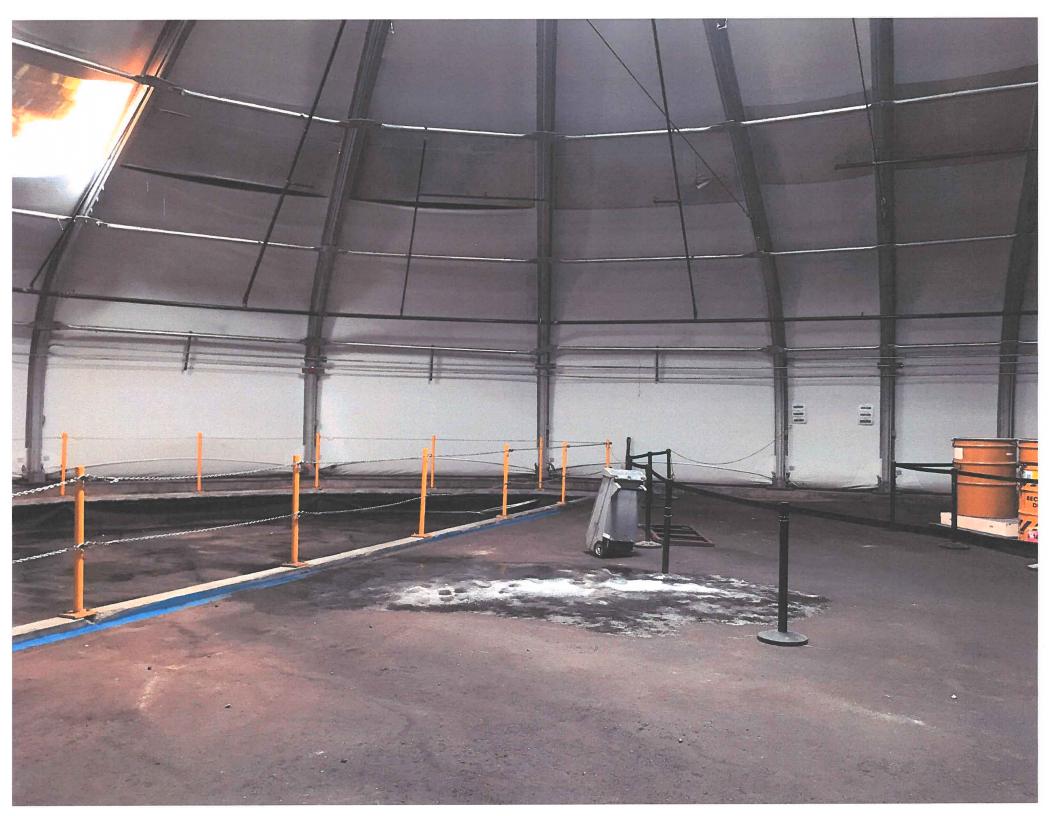
N3B Records

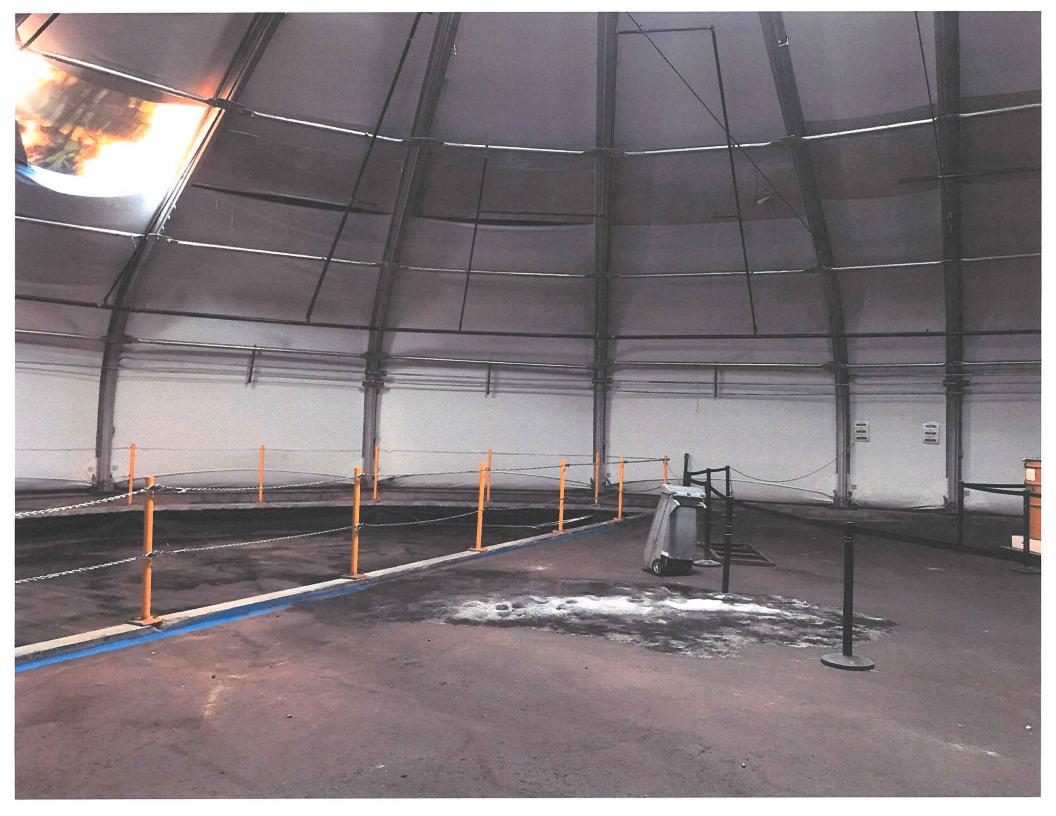
Public Reading Room (EPRR and HPRR)

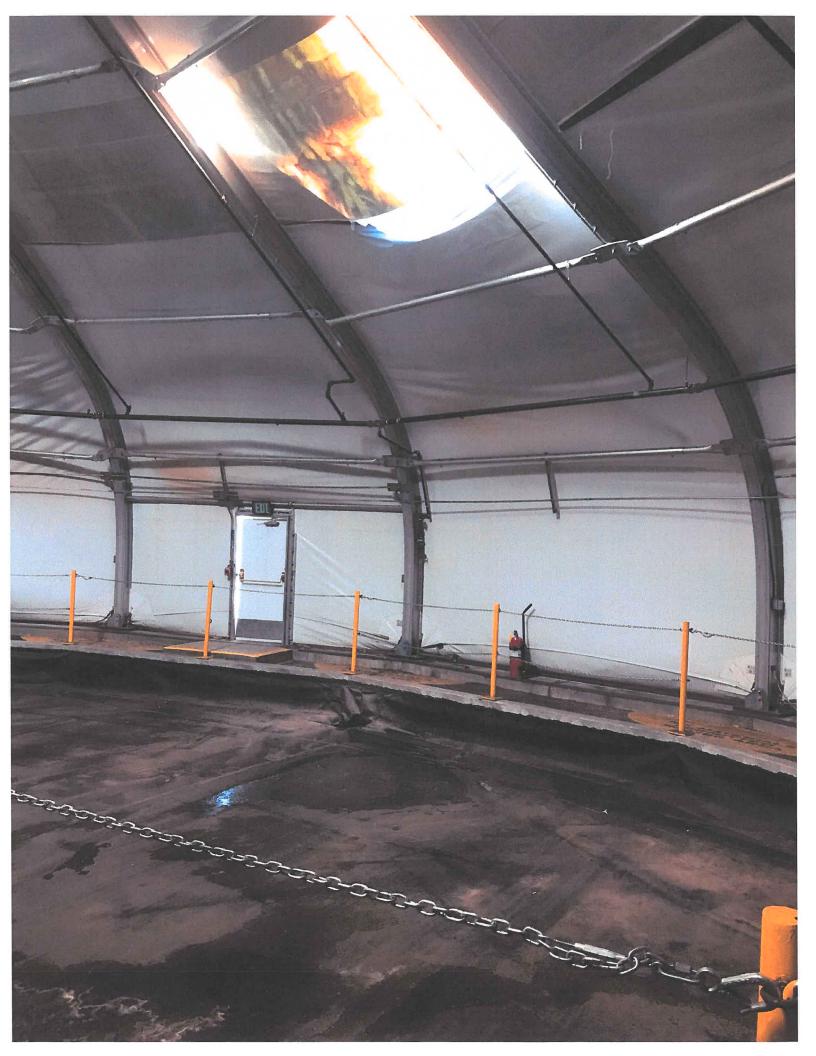
PRS Website

# **ENCLOSURE 1**Dome 229 Additional Information















<sup>1</sup> FACILITY: : <b>TA 54 – 229</b> Pad 9 CSU <sup>2</sup> Site ID #:1986		TREATME OR DISPOS	,			1.7.19		END DATE: /-/3-11	
	Ш	l Treatment	П		_			OB/OD, Cem	
PART I- Enter condition									
ITEM	INSPECTED FOR:	MON	TUE	WE	D	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored	NA					D		
7 NO WASTE HANDLING	No waste handled (see instructions)	OK							
	mondetions)		All TSDs			8-14-21	4 5 7 9 1		
<sup>8</sup> COMMUNICATIONS EQUIPMENT	Availability and proper operating condition	NA .	NA	N/		NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N/	١.	NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA .	N/	1	NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill	o K oz							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2019 - 07	9.19 -9.19	1-9-	19201				
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition	ok	Ar is						
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N/	1	NA	NA	NA	NA
<sup>15</sup> SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill	OK							
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration	OK							
<sup>17</sup> RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	o K							
CONTROL	Container S		and/an To	nlia (aa	. :			1	
18 COVERS/LIDS OF	Closed and secured	lorage Office	anu/or ra					1	
CONTAINERS	properly	· K	2091-979	ARZ	019-0	l			
<sup>19</sup> LABELS	Proper with start date, present & legible	Al 7019-07	521.9.19			8			
<sup>20</sup> COMPATIBILITY	Separated according to compatibility	oK							
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage	o K							
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy	ov-							气

ATTACHMENT 1, EWMO-DOP-20215, R.2

E. 7. 18.

FACILITY: : TA 54 – 229
Pad 9 CSU
Site ID #:1986
START DATE:
1 – 7-19
1 – 13-19

ITEM	INSPEC	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence o that could failure	f conditions result in	٥V						
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		NA	NA	NA	NA	NA	NA	NA
			Ot	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence a		NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition and no ero leakage, or	sion,	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and v condition a erosion		NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems		NA	NA	NA	NA	NA	NA	NA
	1 - 3		MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE	1-7-19						
		<sup>30</sup> TIME	1700						
		31 INSPECTOR(S)	81070, 600 cul						

**Part II-** For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

	32. (7 ten 12) (-7.19) 59: ( Kit next to 5 mg is missing its TI) ( Broke)
	32. Af 7019 of (I ten 12) (-7.19) 59:1 (Kit Next to Sung is missing it TI) (Brokn) Af 7019 of (I ten 12) (-7.19) Spill Kit an under y and is suff (5.1.3.19)  63 Field closel 1.817 Spill Kit an under y and is suff.
	A R 2019-of (Dome Metatenany (1-719) above sump their are mult. cross been bracked that ever bent.  2019-of (Dome Metatenany (1-719) above sump their are mult. cross been bracked that ever bent.  2019-of (Dome Metatenany (1-719) above sump their are mult. cross been bracked that ever bent.  2019-of (Dome Metatenany (1-719) above sump their are mult. cross bent above sump Due to heavy snow.  2019-of (Dome Metatenany (1-719) above sump their are mult. cross been bracked that ever bent.  2019-of (Dome Metatenany (1-719) above sump their are mult. cross been bracked that some their sum of the sum of th
	A (2019-st (Dome Metaterang) (-719) above sour their are must be so to above sump over the source of the control is bent above sump over the source of the property of the source of the property of (7 ten 19) (1.7-19) located in Col of the Plane new Relivative stickers on them is guilty of 1019-stickers relieve. Field closed 1.8-19-19 for need 5, to test deem to See labelia silinous tabel scanding to the control of the control of the source of the second than
	of 12 (1) (1.7-15) located in Col of the Arun have new Rulivative Stickers on themse.
F	12019-03 (7 ten 19) (1.7-19) located in Col of the crum have new Relivative stickers strong get I'll  Ection Sticker Place relice. Field closed 1.507 his crum have new Relivation of the test dame to See label a significant tabel  Ection Sticker Place relice. Field closed 1.507 his first 110 Drum needs, to test dame to See label a significant tabel  Ection Sticker Place relice of Still Closed 1.501 hours find the significant of the TID (Broken) please record inventory  Ection of (Jen 19) (1.7-19) Colos LIR ) from the content of the TID (Broken) please record inventory  All personnel Doors of Close metalescent (1.74) All personnel Doors except for Doors G, A are block by Snow nowled be  excepted for Doors of Doors were cleared of Snow nowled be  excepted for Doors of Doors were cleared of Snow nowled be  excepted for Doors of Doors were cleared of Snow nowled be
	sciAtos Then 19 (1.7.19) colos 2121 theme (10 Smissin + TI) (Broken) please recount inventory
1	12019-05 (7-lem 12) (1.7-19) Spill alose 2 / 5/1/3 piller mentor said for Doors G. A are block by Snow & Field Closed 1-8/19
6	All personal Joses Dec Clares Dr Stow House
1	C - 11,11

FACILITY: : TA 54 – 229	Site ID #:1986	START DATE:	END DATE:	
Pad 9 CSU		12(31/18	01/06/19	

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		)			au		
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	(NA	NA	NA	NA	NA	NA
		O <sub>1</sub>	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	N	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
	1-2/	MON	TVE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> DATE					व्यविषान		
CO 15 N	30 TIME					ay 25		
(GO) P) 1-9.19. EC	31 INSPECTOR(S)					enseed Tranjilus		

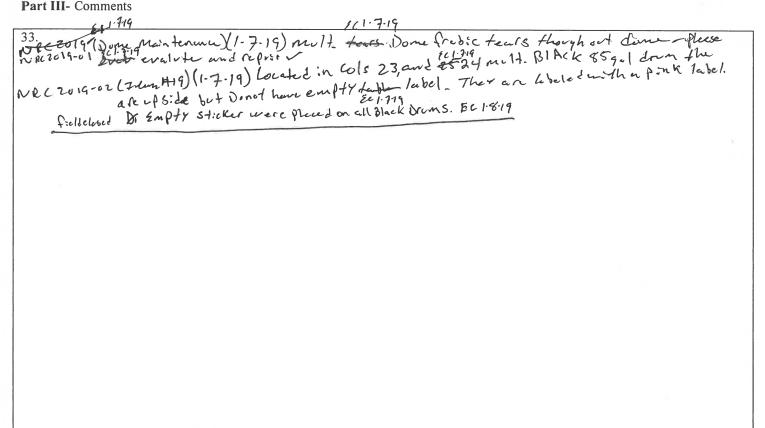
**Part II-** For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

2.	
ARZOIS-OI(Tram#1B) Calculary	
SC 1-9-19 19	
ARTO19-01(Frem#18) [orlowli9]: Located on C14+15 there is snow on lids of containers, please remove closed Field closed 1-9-18 water removed.	
2- V 12- (	

Part II- Continued.

1-9-19 Due to Pa 01/04/19 Plestic- 0	Perwork Not being uplate from last week Al 2019 was not inspected on 1.7-19 but was in spected on 1.9.19 0818EC1	7-01 I tent 18 off water on Fire retenden

Part III- Comments	Part	III-	Comments
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# Dome 229 Open AR's

AR	Date opened	Date Closed	Description	
2018-10				

## Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018		(DOME MAINTENANCE) Located next to door "A" patch in roof has come undone please fix.
2018-02	4/3/2018		(DOME MAINTENANCE) Located on east end of dome patch in roof has come undone please fix.
2018-03			

#### Gail M. Helm

From:

Gail M. Helm

Sent:

Thursday, January 31, 2019 10:42 AM

To: Subject: Kathryn Roberts
Snow on containers

#### Katie,

Per our earlier discussion, I would like to clarify issues/questions/concerns in regards to snow/ice/water observed on waste containers, as documented earlier this month within the IRFs and in light of the dome fabric tears due to heavy snow loading.

Heavy snow loading during the early part of January did allow snow to fall into the Domes 229 and 230. In both locations snow was observed only in the sump areas. No snow was observed on any of the waste containers and the snow is measured to be at approximately 25 feet away from the nearest waste container.

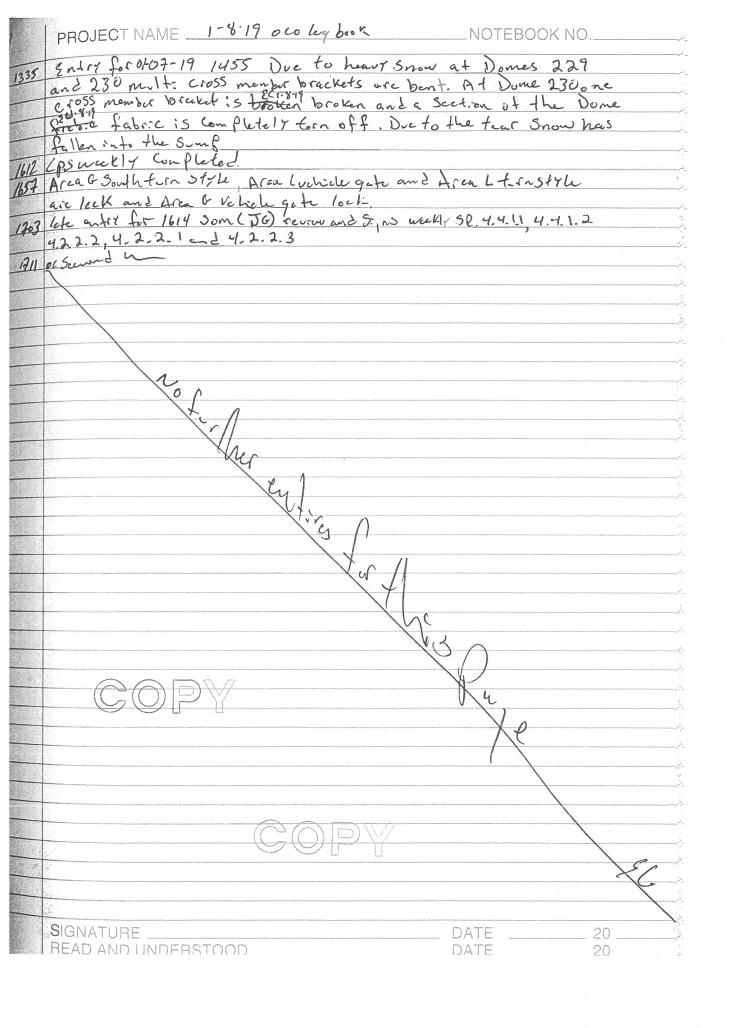
Snow/ice/water observed at any time during the month of January, or prior, is due to the existing condition of the dome fabric. This is a separate condition and unrelated to the dome fabric tears caused by the heavy snow loading. Due to degradation of the dome fabric, there are "pin-holes" in the fabric directly above stored waste containers. When snow/ice/water is observed on waste container lids, the snow/ice/water

Is removed and fire retardant plastic is then placed over the storage array of the affected waste containers. This practice has been evaluated and is approved by Fire Protection and Safety Basis.

There is a planned effort to correct the dome fabric during the re-skinning project of the domes beginning this quarter.

Gail Marie Helm CH-TRU Facility Operations Manager Cell: (505) 309-1319

Alamos Alamos



<sup>1</sup> FACILITY: : TA 54 – 22	l i		ENT, STORAGES AL UNIT (1		<sup>3</sup> START D		<sup>4</sup> END DATI	Ε:
Pad 9 CSU				15/31/18		w 104 19		
6.3	andfill Chemica				U	neous Unit (		
PART I- Enter condition	of the item inspected (i.e	. OK, NA [1   MON	Not Applicable TUE	e], or A WE	NR [Action R D TH	dequired]) in c	olumn for day SAT	SUN
ITEM 6 NO UNIT USE	INSPECTED FOR: No waste stored	INION		W E	U III		SAI	3011
		<u> </u>	Holiday			Na		-
<sup>1</sup> NO WASTE	No waste handled (see		,			ae		
HANDLING	instructions)		All TSDs					
*COMMUNICATIONS	Availability and		All ISDS	TOTAL STATE	ancer question	to an a constitution	R Cranton	TEST STATES
EQUIPMENT	proper operating condition	NA	NA	N/	NA NA	NA NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	MA	N/	NA NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA)	N/	N.A	NA NA	NA	NA
" WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill					œ		
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition					an		
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition					a		
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N.	A NA	NA NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill					a		
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration					an		
17 RUN-ON/OFF	Integrity- no ponding,					Ok.		
CONTROL	erosion, or damage	<u> </u>						<u> </u>
18 couldness upg on		Storage Uni	ts and/or Tar	iks (se	e instruction	is)	<del></del>	
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly					A94019	-ગા	
19LABELS	Proper with start date,		1					
LABLES	present & legible					OL		
<sup>20</sup> COMPATIBILITY	Separated according to compatibility					a		
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage					æ		
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy					æ		

ATTACHMENT 1, EWMO-DOP-20215, R.2

WORKING COPY

Z# 216146

FACILITY: : TA 54 - 229	Site ID #:1986	START DATE:	END DATE:
17101D1111.114 54 - 227		J. 11. D.	DIND DITTE.
Pad 9 CSU		12 31 1R	01 m. 10
	<del></del>	1 (2(3(11)	UI 106 119

ITEM	INSPECT	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of	Absence of conditions that could result in		)			ac	571	SON
<sup>24</sup> TANK SYSTEMS	Discharge and fill lev corrosion of	el and no	NA	(NA	NA	NA	NA	NA	NA
			O	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence as		NA	N.	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	and no eros	Condition of cover, and no erosion, leakage, or damage		NΑ	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and ve condition a erosion	egetation and no	NA	ŊA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural i and conditi equipment systems	on of	NA	NA	NA	NA	NA	NA	NA
			MON	TVE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE					erloyla		
		<sup>30</sup> TIME		1		_	a425		
		31 INSPECTOR(S)					errosell Theryshes.		

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. ARZO19-01(Frem#18) [orlowlm]: Located on C14+15 of containers, Please remove	there is	show on lidg

Part II- Continued.		
Part III- Comments		
33.		

## Dome 229 Open AR's

AR	Date opened	Date Closed	Description
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets

# Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018		Located next to door "A" patch in roof has come undone please fix
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair

Page 1 of 1

<sup>1</sup> FACILITY: : <b>TA 54 – 229</b>		OR DISPOSAL UNIT (TSD)				1-7-19       ⁴END DATE         1-7-19       1-13			-19	
		I Treatment						OB/OD, Cen		
PART I- Enter condition	of the item inspected (i.e. INSPECTED FOR:	OK, NA IN	ot Applical	ole], or A		ction Requi	red]) in c	SAT	SUN	
ITEM 6 NO UNIT USE	No waste stored		TUE	AA E	10	1110	TKI	SAI	3011	
		NA			-			_		
7 NO WASTE	No waste handled (see	OK								
HANDLING	instructions)		All TSDs	1			- 100			
*COMMUNICATIONS	Availability and		til TODS				ALCO VICTOR			
EQUIPMENT	proper operating condition	NA	NA	N.	4	NA	NA	NA	NA	
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N.	4	NA	NA	NA	NA	
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N.	4	NA	NA	NA	NA	
"WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill	a K								
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 7019-01	9-14 9-14	1-9-		ř				
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition	ok								
14 WIND SOCK	Proper operating condition and functional	NA	NA	N.	A	NA	NA	NA	NA	
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill	ox								
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration	OK						-,		
17 RUN-ON/OFF	Integrity- no ponding,	o K		16	-0					
CONTROL	erosion, or damage		14 77	٠.,						
19 GOLVERGE IRO OR	Container S	torage Units	and/or Ta				_			
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly	. K	સ્વૃ-૧૧	H & S	014-0	1				
19LABELS	Proper with start date, present & legible	A 2 7019-07	Sec1-9-19							
<sup>20</sup> COMPATIBILITY	Separated according to compatibility	٥×								
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage									
	28	0 K			30-20			200		
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy	ov							64.	
				1		107	JEKING	COBY	1	

ATTACHMENT 1, EWMO-DOP-20215, R.2

Z# 1141 XX INITIAL 2 C DATE 1. 7-19

	ITEM INSPECTED FOR:		MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	that could failure		ok						
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		NA	NA	NA	NA	NA	NA	NA
The Armstall		_88 = _	Ot	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence a		NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	and no ero leakage, or	Condition of cover, and no erosion, leakage, or damage		NA	NA	NA	NA.	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion		NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural and condit equipment systems	ion of	NA	NA	NA	NA	NA	NA	NA
<u></u>	1		MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE	1-7-19						
		<sup>30</sup> TIME	1700						_
		31 INSPECTOR(S)	و در ۳۵ م در ساد روع در ۳۵ م در ساد روع						

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

_	
	32. A 2 7019 of (I len 12) (1-7.19) Sp: ( Kit Next to Sun) is unssing its TI) (Broke) A 2 7019 of (I len 12) (1-7.19) Sp: ( Kit Next to Sun) is bent about such  Field closed 1.817 31: 11 Kit Annualory and is such a feel of 1.919
	A f 2017 19 Neve received in ment or you also the chartest is bent about sunt
l	03 Field Close 1.877 of miranian acts.
ł	A fr 2019-of (Dome Moth tenany (1-719) above somp their are nuth cross beam bracket then tark bent.  2019-of (Dome Moth tenany (1-719) above somp their are nuth cross beam bracket the tark bent.  2019-of (Dome Moth tenany (1-719) above somp their are nuth cross beam bracket the tark bent.  2019-of (Dome Moth tenany (1-719) above somp their are nuth cross beam bracket the tark bent some of the decision of the de
l	Messe attailed and repair- also the elegant 110 Get they waste downs don't had Radiount
l	of 12 (12:15) Localed in Col Ol El B 2 3 Jew R Lived ive Stickers on themise.
l	Al 2019-03 (7 ten 19) (1-7-19) Color LIR) from low new Reliables to term down to See labelia Allinone table  Sc19485 (7 ten 19) (1-7-19) Color LIR) from low new Reliables to term down to See labelia Allinone table  Sc19485 (7 ten 19) (1-7-19) Color LIR) from live Drum needs to term down to See labelia Allinone table  Al 2019-05 (7 ten 19) (1-7-19) Spill Kit Aug that hill of many field for Doors G. A are block by Snow, Field Closed 1-8-19  Al 2019-05 (7 ten 12) (1-7-19) Spill Kit Aug that hill of many field for Doors G. A are block by Snow, Field Closed 1-8-19  Al 2019-05 (Dome meintenn) (1-7-19) All Dersonmi Doors exclude for Doors G. A are block by Snow, Field Closed 1-8-19  All Personmi Doors were cleared of Snow nowkern be  Other
l	sughs it can be a color to the sught of the sugh
ļ	AR 2019 of Then 19 11 711 50:11 Kit Aug duto Very Sanger 12 17 10 (Brown) Themse (Count in and in
ļ	At 7019 - of 12.19. 1 (1. 714) All Dersonn Doors except for Doors G. A are block by Snow the 12 Close 1 of
ŀ	AR 2019-06 (Done Military)
L	

Part II- Continued.

1-9-19 Due to Paper work Not being uplate from last week Al 2019-01 Itemst 01/04/19 was not inspected on 1-7-19 but was in spected on 1-9-19 water on Fire Plastic- 0818EC1	18 off e setembent
	!

Part III- Comments

33. e2019(Doppe Maintenne X1-7.19) mult took Done frobic tears though out down please Nortolg-01 Ever evalute and repose v NOC 2019-01 (French H9) (1-7.19) Located in Cols 23, and #524 mult. Bl Ack 859. I drum the  NOC 2019-02 (French H9) (1-7.19) Located in Cols 23, and #524 mult. Bl Ack 859. I drum the  NOC 2019-02 (French H9) (1-7.19) Located in Cols 23, and #524 mult. Bl Ack 859. I drum the  Are up 5: de but Donot have empty faller label. Ther are labeled with a pink label.  Fieldclosed Dr Empty Sticker were pleased on all Black Drums. Ec 1-819

# Dome 229 Open AR's

AR	Date opened	Date Closed	Description			
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets			
2019-03	1/7/2019		Above the sump there are mult. Crossbeam brackets that are bent. Please evaluate and repair. Also above the sump there are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001			

# Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description			
2018-01	1/2/2018		Located next to door "A" patch in roof has come undone please fix			
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.			
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair			

AR	Description	Date opened Responsible perso	r Status	Date Closed Date Verified
2018-10	Located in Col24 L1 R13 Haz Waste Drum # S892996 is hanging off of pallet please fix. Field Closed on 10-01-18 Drum fixed.	10/1/2018 Rick Martinez	Field Closed	10/1/2018 10/1/2018
2018-11	Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets	10/9/2018 Rick Martinez	Closed	
2019-01	Located on Col 14&15 Snow on lids of containers. Closed 1/9/2019 Snow removed from the lids	1/7/2019 Rick Martinez	Field Closed	1/7/2019 1/7/2019
2019-02	Spill Kit next to sump is missing TID (Broken) Please inventory. Closed 1/8/2019 Spill Kit is inventory and was sat EC	1/7/2019 Randy Fleixchacker	Closed	1/7/2019 1/8/2019
2019-03	Above the sump there are mult. Crossbeam brackets that are bent.Please evaluate and repair. Also above the sump there are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001	1/7/2019 Maintenance	Repeat	1/9/2019
2019-04	Located in Col 06 L1 R 1,2,3,4,. there are 110 gal drums labeled Haz Waste that do not have Radioactive sticker. Please place. Closed 1/8/2019 All drums have new Radioative Sticker on them EC	1/7/2019 Randy Fleixchacker	Field Closed	1/7/2019
2019-05	Col 05 L1 R1 110 gal drum needs to be turn to see label. Closed 1/8/2019 All in One label placed on drum EC	1/7/2019 Rick Martinez	Field Closed	1/7/2019 1/8/2019

AR	Description	Date opened	Responsible person	Status	Date Closed	Date Verifi
2019-06	Spill Kit next to Door G is missing TID (Broken) Please inventory. Closed 1/8/2019 Spill Kit is inventory and was sat EC	1/7/2019	Gail Helm	Field Closed	1/7/2019	1/8/2019
2019-07	All personnel doors except for Doors A,G are block by snow. Closed 1/8/2019 All personal doors were cleared of snow now can be open EC	1/7/2019	Maintenance	Field Closed	1/7/2019	1/8/2019

NRC	Description	Date opened	Responsible person	Status	Date Closed	Verified b
2018-01	Located next to door "A" patch in roof has come undone please fix	1/2/2018	Maintenance	Repeat		
2018-02	Located on East end of dome patch in roof has come undone, Plaese repair.	4/3/2018	Maintenance	Repeat		
2019-01	Mult. Dome frabic tears through out the dome. Please evaluate and repair	1/7/2019	Maintenance	New	*	
	Located in Cols 23 and 24 Mult. Black 85 gal drums that are upside down but do not have empty labels. They are labeled with a pink label.	1/7/2019	Rick Martinez	Closed	1/8/2019	RT

FACILITY: : TA 54 – 22 Pad 9 CSU	ag .	OR DISPO	ENT, STORA SAL UNIT (		3 START DATI		4END DATE	
	andfill Chemica		-		Miscellaneo			j
PART I- Enter condition								
ITEM	INSPECTED FOR:	MON	TUE	WE	D THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored	<u> </u>	NO					
<sup>7</sup> NO WASTE HANDLING	No waste handled (see instructions)		va-					
NANDEINO	mstructions)	1	All TSDs		V 9			
8 COMMUNICATIONS	Availability and		All TODS			25000000		941
EQUIPMENT	proper operating condition	NA	NA	NA	NA NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N.A	NA NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N.A	NA NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill		OP.					
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		æ					
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition		OR.					
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N/	NA NA	NA	NA	NA
<sup>15</sup> SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill		æ					
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration		æ					
<sup>17</sup> RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage		æ					
	Container S	torage Uni	ts and/or Ta	nks (see	instructions)	0		
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly		æ					
<sup>19</sup> LABELS	Proper with start date, present & legible		æ					
<sup>20</sup> COMPATIBILITY	Separated according to compatibility		ae					
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage		æ					
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy		æ					
· · · · · · · · · · · · · · · · · · ·								

ATTACHMENT 1, EWMO-DOP-20215, R.2

WORKING COPY

Z# 216145

INITIAL IZT DATE OLIS 19

FACILITY: : TA 54 – 229	Site ID #:1986	START DATE:	END DATE:
Pad 9 CSU		01/19/19	or kolig

ITEM	INSPECTED	FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of cor that could resu failure	ENGINEERING CONTRACTOR		a					
<sup>24</sup> TANK SYSTEMS	Discharge cont and fill level ar corrosion or le	nd no	NA	NA	NA	NA	NA	NA	NA
	T		0	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of co		NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of co and no erosion, leakage, or dan	, '	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegeta condition and r erosion	ation	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integ and condition of equipment and systems	of	NA	NA.	NA	NA	NA	NA	NA
			MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> <b>D</b>	DATE		01/15/19					- 5511
	<sup>30</sup> 7	TIME		0925					
		31 INSPECTOR(S)		Russell Tawillo					

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 01/14/19: No New ( 5500	<b>25.</b>	

Part II- Continued.	
	-
Part III- Comments	
33.	- 65

## Dome 229 Open AR's

AR	Date opened	Date Closed	Description
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets
2019-03	1/7/2019		Above the sump there are mult. Crossbeam brackets that are bent.Please evaluate and repair. Also above the sump there are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001

## Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018		Located next to door "A" patch in roof has come undone please fix
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair

Page 1 of 1

	221 11				3.00	101111		END DATE	,
<sup>1</sup> FACILITY: : <b>TA 54 – 2</b> 2			NT, STORA			ART DATE	: [*	END DATE	::
Pad 9 CSU		OR DISPOS	SAL UNIT (	(dST	- [ -	-21-19		1-27-	-19
5 ** 0	1611 61 ;	1.70	Т1	<u>_</u>		Alasallanas.	no I Imit (O		
<sup>5</sup> X Containers L	andfill Chemica	l Treatment	t 🔲 Tanl	•		Miscellaneo	us Onit (O	D/OD, Cen	nentation)
PART I- Enter condition	of the item inspected (i.e.	OK. NA IN	lot Applicab	le], or A	R [/	Action Requi	red]) in col	umn for day	inspected.
ITEM	INSPECTED FOR:	MON	TUE	WE	D	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored								
		Holiday	NA	-					ļ
7 NO WASTE	No waste handled (see	١,	on						
HANDLING	instructions)		All TSDs					<u> </u>	
1001040404040	1 1 1 11 11 1 1 1 1 1 1 1 1 1 1 1 1 1	)	All 15DS	10.500004/00	NGOTY.	ANDROSSANTE	COSE TON SOME	- consistent out	LECTRON CO
*COMMUNICATIONS	Availability and	1	NA	N.A		NA	NA	NA	NA
EQUIPMENT	proper operating	NA.	INA	INA		NA	INA	NA.	NA
9 WARNING SIGNS	Posted, legible, and	PERSONAL SEPTEMBER		ALTERNATION .	akan aye Kabapatè	Organism water	PERMITS IN	Selection of the select	CALL PROPERTY.
WARNING SIGNS	bilingual	NA NA	NA	N/	7	NA	NA	NA	NA
10 SECURITY	Good condition of		STORY NO. SEC.	1000000	1000			Charles and	
SECURITI	fences, gates, locks,								
	and other access	NA	NA	N.A	<b>Y</b>	NA	NA	NA	NA
	control equipment								
11 WORK SURFACES/	Absence of conditions	/		150000	<b>F</b>			CE PRIMI	2 2 3
FLOORS/ROADS	that could lead to an								
1 DOORS ROTES	accident or spill		ac						
12 SPILL/FIRE	Present, appropriate,				£38.				
EQUIPMENT	and in proper	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							
	operating condition		OK						
13 EYEWASHES/	Proper operating	Series and the series are the series and the series are the series and the series and the series are the series		25/82/5	0.00				
SAFETY SHOWERS	condition		Oc			2116000	120		
14 WIND SOCK	Proper operating	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			200	TO A COLUMN	No. of the last		
	condition and	NA.	NA	N/	4	NA	NA	NA	NA
	functional				D III				
15 SECONDARY	Integrity- No standing	T )							
CONTAINMENT	water/waste, erosion,								
	or signs of a spill		ac	<u> </u>					
16 (UN)LOADING	No spills or	)	01						
AREA	deterioration		Ob_	<u> </u>		ļ			
<sup>17</sup> RUN-ON/OFF	Integrity- no ponding,	(	<i>a</i> .	l					
CONTROL	erosion, or damage		ale_			<u> </u>			
	Container S	torage Unit	s and/or Ta	nks (sec	e ins	tructions)	T	<del></del>	
18 COVERS/LIDS OF	Closed and secured		ok						
CONTAINERS	properly	<del>                                     </del>	I O'C	-					<del> </del>
19LABELS	Proper with start date,			1				İ	
	present & legible	1 1							
		/	m.					~	
		\	OK						_
<sup>20</sup> COMPATIBILITY	Separated according								
	to compatibility	/	al-			<u> </u>			
<sup>21</sup> INTEGRITY	No leakage, corrosion,								
	or damage								
1		1 1	ax						
			Care						
<sup>22</sup> AISLE	Appropriateness and	+ -						+ -	-
SPACE/STACKING	adequacy	{	N.						
SI ACEIST ACKING	adequeey	(	Ole						
							1	I	

ATTACHMENT 1, EWMO-DOP-20215, R.2

FACILITY: : TA 54 – 229 Site ID #:1986 START DATE: END DATE: 1-21-19

ITEM	INSPECTED FOR	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of condition that could result in failure		ac					
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	N/A	NA	NA	NA	NA	NA	NA
		/ 0	ther TSDs	11.0				- 22
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	(NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	N <sub>A</sub>	NA	NA	NA	NA.	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	(NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> DATE		1/22/19					
	30 TIME		Des					
	31 INSPECTOR(S)		1/26/ 19 miles					

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32.	1/22/19: No New ISSNES.

Part II- Continued.	
Part III- Comments	
33.	<u> </u>

## Dome 229 Open AR's

AR	Date opened	Date Closed	Description
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets
2019-03	1/7/2019		Above the sump there are mult. Crossbeam brackets that are bent. Please evaluate and repair. Also above the sump there are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001

## Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018		Located next to door "A" patch in roof has come undone please fix
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair

Page 1 of 1

1

	250 77785123					, 1,	DND DATE	
<sup>1</sup> FACILITY: : <b>TA 54 – 2</b> 2		TREATMEN		, I	START DATE	ະ:   ⁴	END DATE	<b>:</b> :
Pad 9 CSU		OR DISPOS	AL UNIT	(120)	0/28/19		02/03/19	
5 W C 1	andell Chamical	l Trootmont	Tan		Miscellaneo	us linit (O		
<sup>5</sup> X Containers L	andfill Chemical	i i reatment		K [	] Wiscenanec	ius Onit (O	BIOD, Cell	icitation)
PART I- Enter condition	of the item inspected (i.e.	OK, NA [N	o <u>t Applica</u> b	ole], or AR	[Action Requ	ired]) in col	umn for day	inspected.
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored			NA				
<sup>7</sup> NO WASTE	No waste handled (see							
HANDLING	instructions)			al		-		
HANDEING	mad detions)	A	All TSDs					
8 COMMUNICATIONS	Availability and		THE STATE OF			CONTRACTOR OF		
EQUIPMENT	proper operating condition	NA	NA	NA	NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	NA	NA	NA	NA	NA
10 SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	NA	NA	NA	NA	NA
" WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill			æ				
12 SPILL/FIRE	Present, appropriate,			i Je to de				
EQUIPMENT	and in proper operating condition			de				
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition			a				
14 WIND SOCK	Proper operating condition and functional	NA	NA	NA	NA	NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill			ol				
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration			æ			<u> </u>	
17 RUN-ON/OFF	Integrity- no ponding,			æ				
CONTROL	erosion, or damage		<u> </u>					
	Container S	torage Units	and/or Ta	nks (see i	nstructions)		1	
18 COVERS/LIDS OF	Closed and secured			~				
CONTAINERS	Proper with start date,		<del>                                     </del>	<del></del>	<del></del>	<del>                                     </del>		<u> </u>
LABELS	present & legible			-				:
<sup>20</sup> COMPATIBILITY	Separated according to compatibility			ď				
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage			æ				
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy			æ				
	·	-						- SANCEL AND A SHOWING AND

ATTACHMENT 1, EWMO-DOP-20215, R.2 WORKING COPY

Z# 216146

INITIAL PT DATE 01/30/19

FACILITY: : TA 54 – 229 Site ID #:1986 START DATE: END DATE:
Pad 9 CSU 0 (7.8/19 0 2/08/19

ITEM	INSPECT	ED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of that could refailure				æ				
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		NA	NA	NA	NA	NA	NA	NA
**			Ot	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of	cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of and no erosi leakage, or o	on, lamage	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and veg condition an erosion	d no	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural in and conditio equipment a systems	n of	NA	NA	NA	NA	NA	NA	NA
			MON	TUE	WED	THU	FRI	SAT	SUN
	2	DATE			orsolia				
	3	°TIME			15.50	_			
		31 INSPECTOR(S)			Russell Tayillo				

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 01/30/19; No	New lasues.	

Part II- Continued.	
Part III- Comments	
33.	

## Dome 229 Open AR's

AR	Date opened	Date Closed	Description
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets
2019-03	1/7/2019		Above the sump there are mult. Crossbeam brackets that are bent.Please evaluate and repair. Also above the sump there are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001

## Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018	*·	Located next to door "A" patch in roof has come undone please fix
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair

Page 1 of 1

	0 25 10 # 1096				START DATE	. 4	END DATE	
<sup>1</sup> FACILITY: : TA 54 – 22			NT, STORA SAL UNIT (*	. ,	_1 1		4 6	
Pad 9 CSU		OK DISFO.	SAL UNII (	130)	2/4/19	1	2/10/1	9
<sup>5</sup> X Containers L	andfill Chemical	Treatmen	t Tanl		Miscellaneo	us Unit (O	B/OD, Cen	nentation)
PART I- Enter condition	of the item inspected (i.e.	OK, NA [N	lot Applicabl		[Action Requi	red]) in col	umn for day	inspected.
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored		NA					
7 NO WASTE	No waste handled (see		4/.					
HANDLING	instructions)		l OK					<u> </u>
	I	The second secon	All TSDs	W/WINDOW	wa san kasa san	Manual Park Manual Co.	Tallet and the contract of	ACRES AND THE OWNER SHOWING
<sup>8</sup> COMMUNICATIONS EQUIPMENT	Availability and proper operating condition	NA	NA	NA	NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	NA	NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	NA	NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill		Ob-					
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		ac					
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition		Ok-					
14 WIND SOCK	Proper operating condition and functional	NA	NA	NA	NA	NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill		OK-					
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration		Ole					
17 RUN-ON/OFF	Integrity- no ponding,							
CONTROL	erosion, or damage		ak					
	Container St	orage Unit	s and/or Tai	ıks (see i	nstructions)			
18 COVERS/LIDS OF	Closed and secured		A)					
CONTAINERS	properly		Ok					
<sup>19</sup> LABELS	Proper with start date, present & legible							
:			Ob					
<sup>20</sup> COMPATIBILITY	Separated according to compatibility		OF					
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage		Ole					
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy		OK	:				

ATTACHMENT 1, EWMO-DOP-20215, R.2

Z# 293/78
INITIAL # DATE 2/5/19

FACILITY: : TA 54 – 229 Site ID #:1986 START DATE: END, DATE: Z 4 19 Z 19 19

ITEM	INSPECTED FOR	: MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of condition that could result in failure	1S	OK_				15.00	
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
		C	Other TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA.	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> DATE		2/5/19		_			
	<sup>30</sup> TIME		1050					
	31 INSPECTOR(S)		1 Hecle, 4941/ar	<b>1</b>				10 10 10 10 10

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. Z/5/19: No	Vew ISSNES.	

Part II- Continued.						
Part III- Comments						
33.						

## Dome 229 Open AR's

AR	Date opened	Date Closed	Description		
2018-11	10/9/2018		Located in C6,L1,R1 there ar three 110 gal drums on one secondary pallet and are hanging over please evaluate and place on separate pallets		
2019-03	1/7/2019		Above the sump there are mult. Crossbeam brackets that bent.Please evaluate and repair. Also above the sump the are bent electrical conduents. FSR placed on 1/7/2019 FSR#N3B-19-0001		

## Dome 229 Open NRC's

NRC	Date opened	Date Closed	Description
2018-01	1/2/2018		Located next to door "A" patch in roof has come undone please fix
2018-02	4/3/2018		Located on East end of dome patch in roof has come undone, Plaese repair.
2019-01	1/7/2019		Mult. Dome frabic tears through out the dome. Please evaluate and repair

From: Gail M. Helm <gail.helm@em-la.doe.gov>

Sent: Monday, January 7, 2019 6:01 PM

To: EventNotification (EXTERNAL) < <a href="mailto:EventNotification@EM-LA.DOE.GOV">EventNotification@EM-LA.DOE.GOV</a>

Subject: Event Notification: Broken Dome Cross Member in Dome 229 and Broken/Bent Dome Cross Member Brackets

in Domes 229 and 230 Due to Heavy Snow Loading at TA-54, Area G

Title: Broken Dome Cross Member in Dome 229 and Broken/Bent Dome Cross Member Brackets in Domes 229 and 230

Due to Heavy Snow Loading at TA-54, Area G

New or Update: New Reported By: Gail Helm Number: 18-TA54-021

Date and time of Discovery: 01/07/2019, 1450

Date and time of Categorization: 01/07/2019, 1500

Location (TA/Building and/or Area): TA-54/Domes 229 and 230, Area G

N3B Program Manager: Danny Nichols

**Description**: On 01/07/2019 at 1450 hours, the CH-TRU TA54 Facility Operations Manager (OM) was notified by the CH-TRU Shift Operations Manager (SOM) of structural integrity issues at Domes 229 and 230, TA-54, Area G. Dome 229 was observed to have a broken dome structure cross member, along with broken and bent dome structure cross member brackets, and torn dome fabric. Dome 230 was observed to have only broken and bent dome structure cross member brackets, and torn dome fabric. Due to the torn dome fabric, snow had fallen and entered into the dome, however the snow is contained in the sump collection areas of each dome. The duty SOM made notification to Engineering to evaluate the structural integrity of Domes 229 and 230. The SOM performed an extent of condition on all domes inside Area G and did not identify any additional abnormal structural integrity issues. Regulatory Compliance has been notified and will make notifications to NMED as appropriate per the facility Hazardous Waste Permit.

The abnormal structural integrity issues are attributed to the heavy snow accumulation events experienced during the work week of 12/31/2018. The affected areas have been isolated from personnel entry. No radiological waste containers have been impacted as a result. FSRs have been submitted to address and correct the structural integrity issues for Domes 229 and 230.

#### **Immediate Actions Taken:**

- 1) The SOM made notification to Engineering to have a structural evaluation performed
- 2) The SOM coordinated isolation and notified personnel of the affected area
- 3) The SOM gathered information to provide to Regulatory Compliance for potential reporting purposes per the facility Hazardous Waste Permit
- 4) The SOM performed an extent of condition of all other dome structures
- 5) FSRs have been submitted to correct the structural integrity issues at Domes 229 and 230

Categorization (ORPS/Sub -ORPS): Sub-ORPS

Report Levels: N/A

Event Reporting Criteria (Group/Subgroup/Sequence Criteria): Group 4, Facility Status

Was the Los Alamos Fire Department (LAFD) engaged? (YES/NO): No

Will a Fact Finding session be held to support event learning? (YES/NO): No

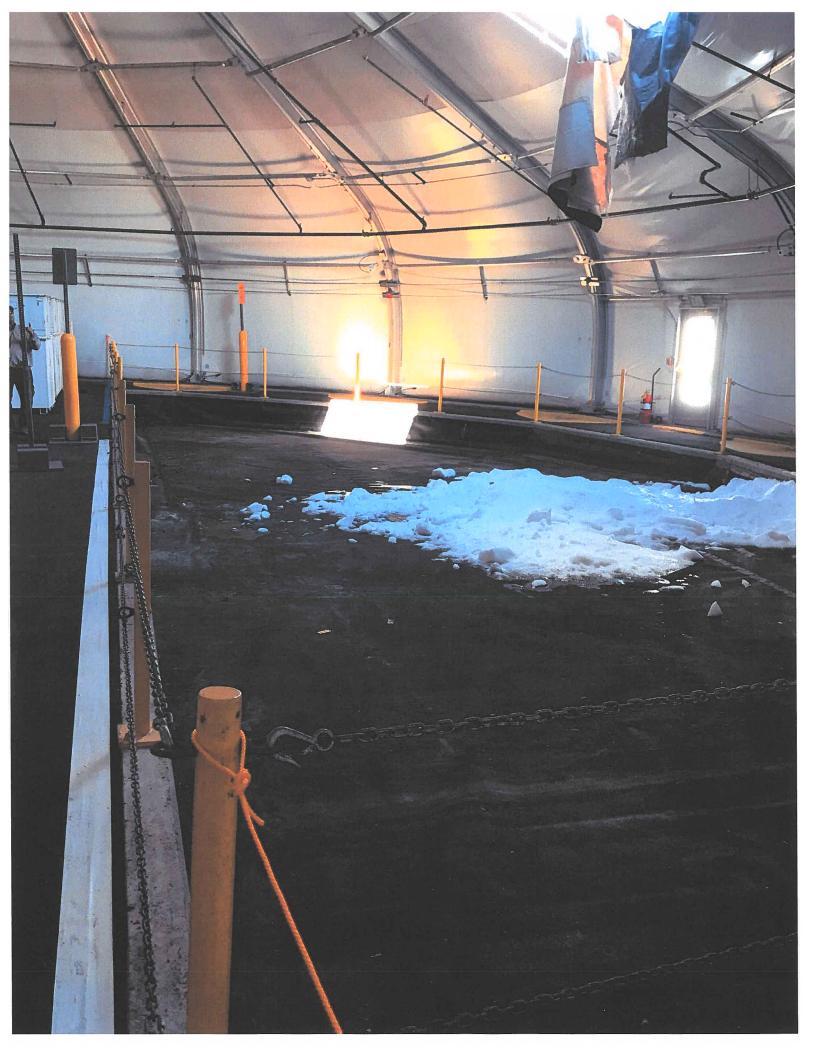
**Gail Marie Helm** 

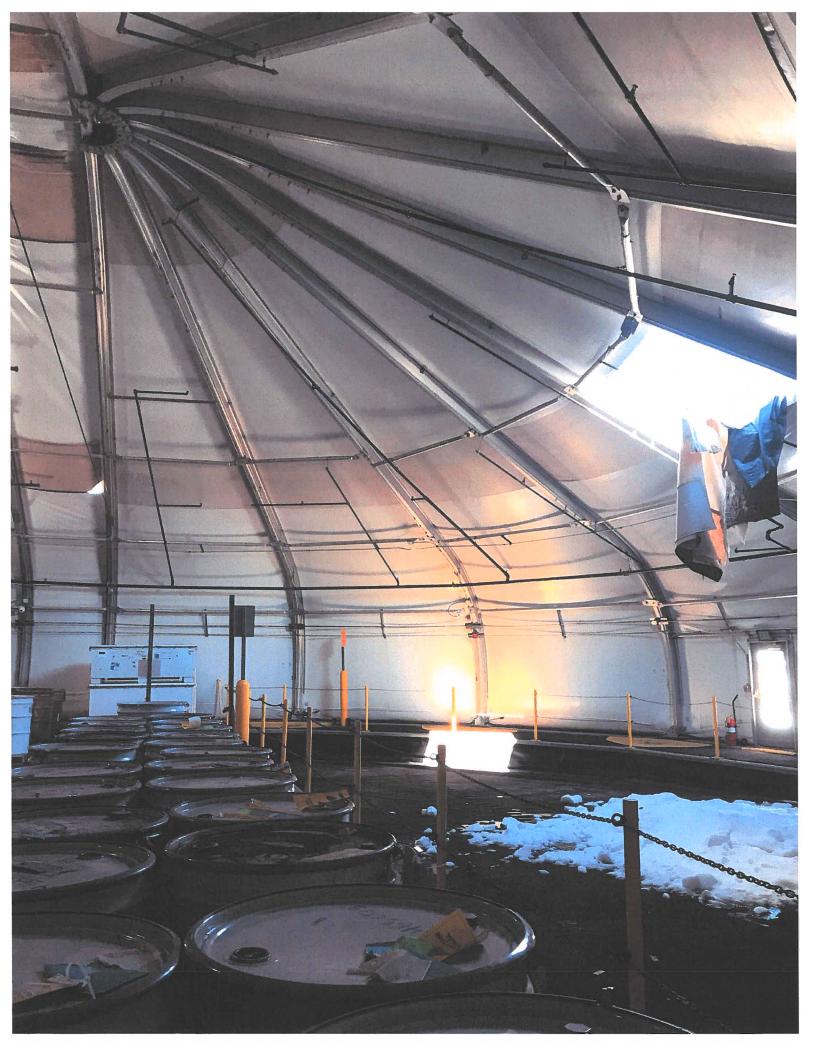
1

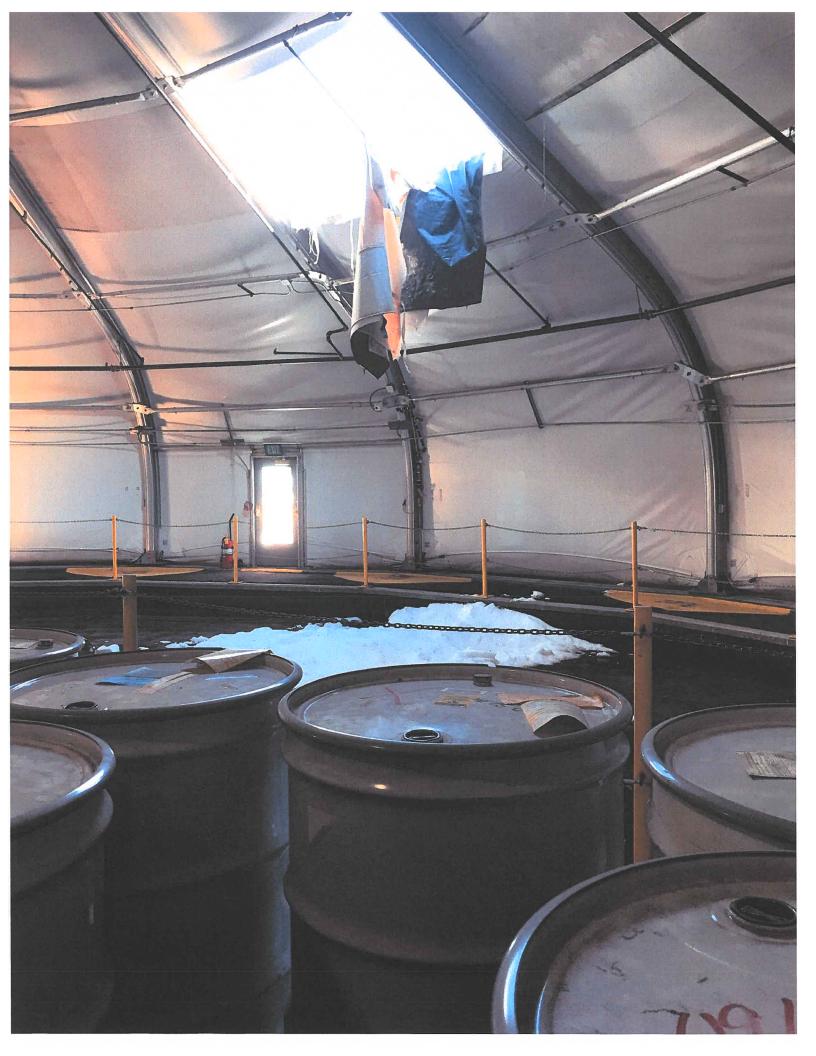


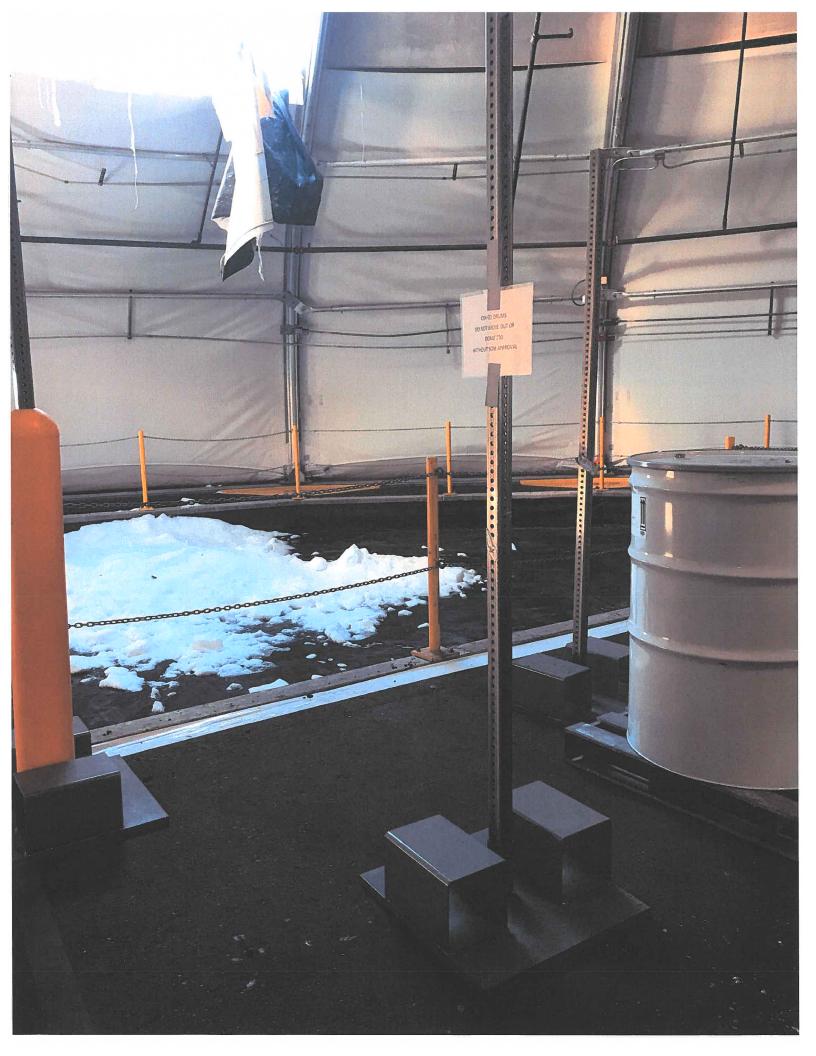
# ENCLOSURE 2 Dome 230 Additional Information

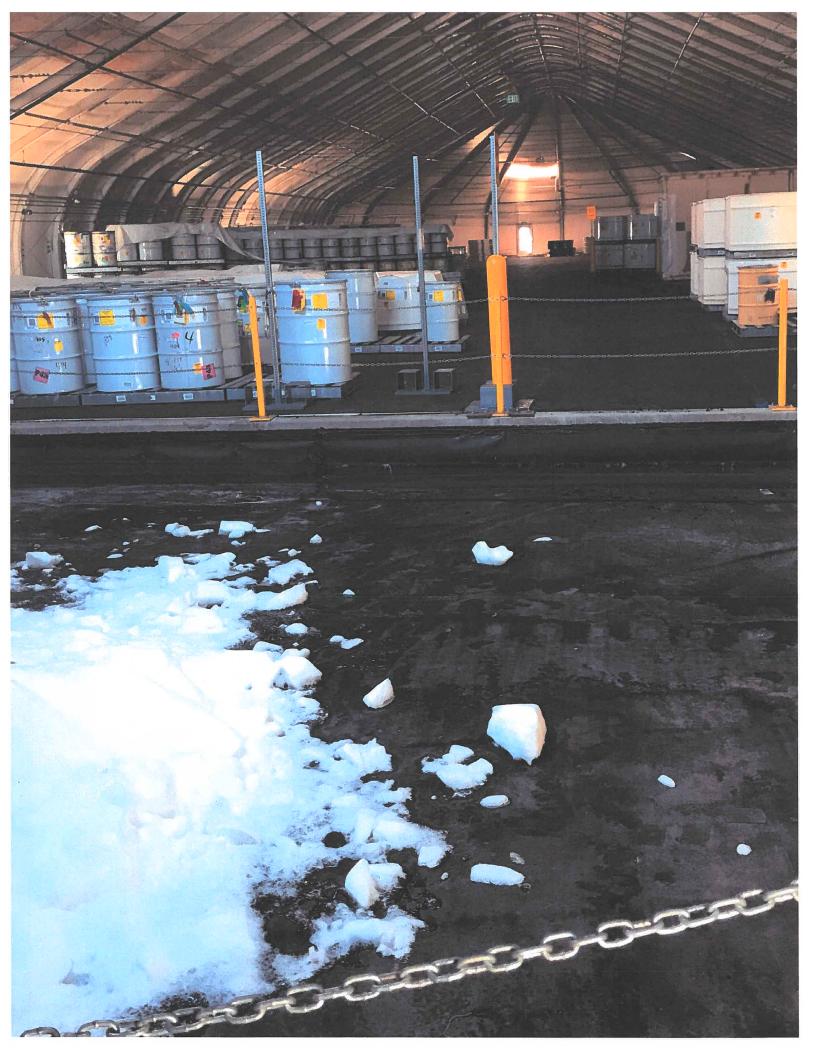


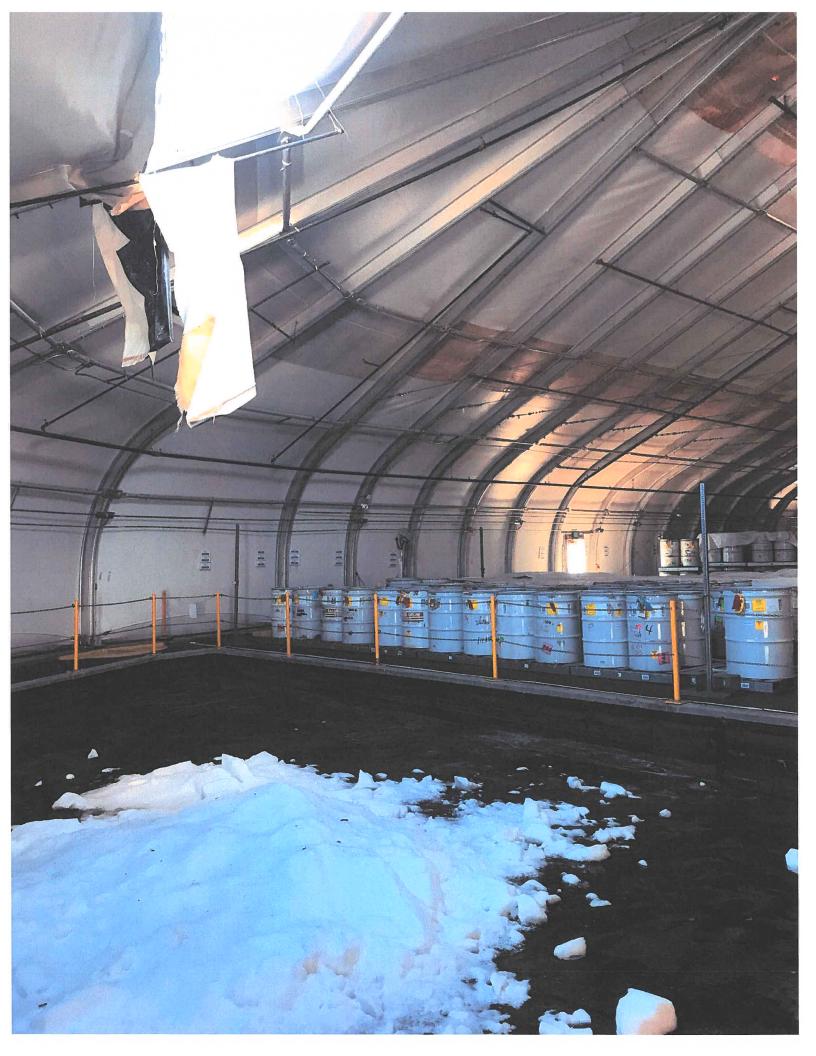


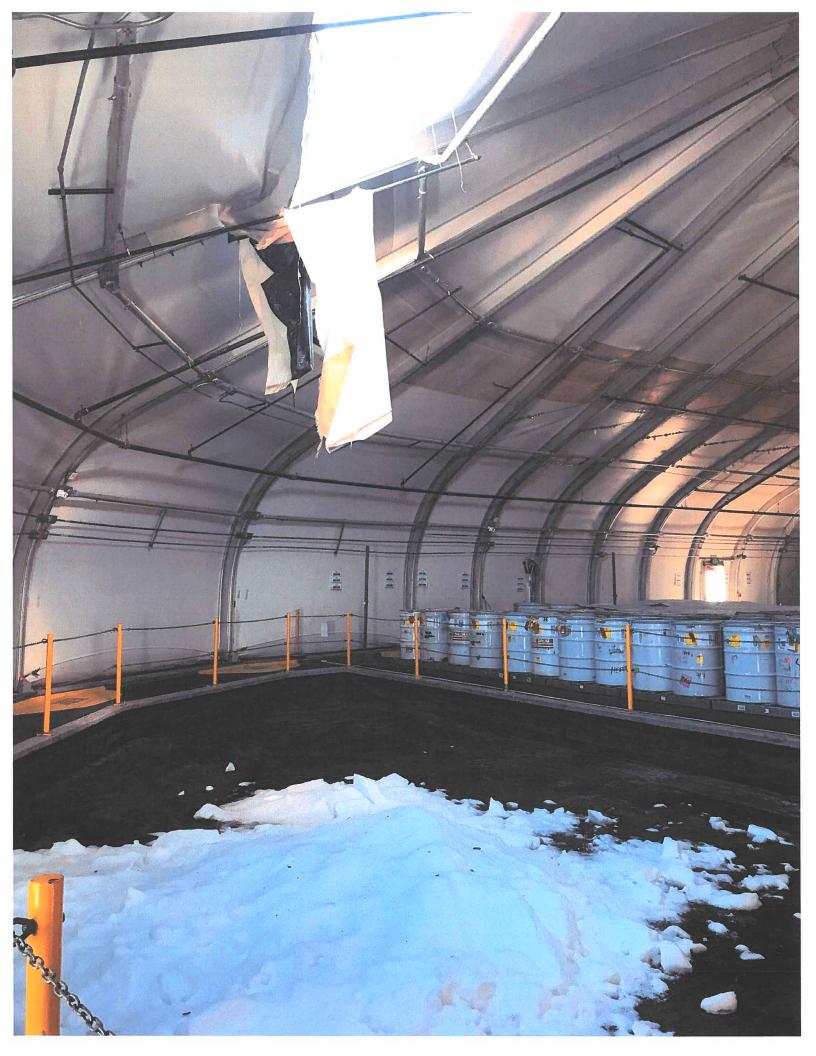


















			·	<u> </u>	3.0004	D. D. A. T. E.	14	END DATE	7
<sup>1</sup> FACILITY: <b>TA 54 – 23</b> 0		TREATMEN				RT DATE:	'	END DATE:	1
Pad 9 CSU		OR DISPOS	AL UNIT (	TSD)	1	7.19		1-13-1	7
<sup>5</sup> <b>X</b> Containers La	andfill Chemica	l Treatment	Tan	k	_ ∏ Mi	scellaneou	is Unit (O	B/OD, Ceme	entation)
PART I- Enter condition		OK NA IN	_		AD [Ac	tion Requir	edl) in col	umn for day i	enected
ITEM	INSPECTED FOR:	MON	TUE	WI		THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored		TUL	VV A		1110	4 101	Siri	3011
NO UNIT USE	No waste stored	NA							
<sup>7</sup> NO WASTE	No waste handled (see	1							
HANDLING	instructions)	6K		<u> </u>					
		A	All TSDs					Friedrick State Com-	
<sup>8</sup> COMMUNICATIONS	Availability and								
EQUIPMENT	proper operating	NA	NA	N.	A	NA	NA	NA	NA
	condition	P. S.							
<sup>9</sup> WARNING SIGNS	Posted, legible, and	NA	NA	N	A .	NA	NA	NA	NA
	bilingual	INA	INA		A	IVA	IVA		INA
10 SECURITY	Good condition of								
	fences, gates, locks,	NA	NA	N		NA	NA	NA	NA
	and other access	INA	INA		A	IVA	IVA	100	, NA
	control equipment							<b>《</b> 是記》	en e
11 WORK SURFACES/	Absence of conditions		1						
FLOORS/ROADS	that could lead to an	OK							
	accident or spill								
12 SPILL/FIRE	Present, appropriate,	AR 2019-08	801-9-19						
EQUIPMENT	and in proper								
	operating condition								
13 EYEWASHES/	Proper operating								
SAFETY SHOWERS	condition	OK				mary to de			
14 WIND SOCK	Proper operating			15 10					
	condition and	NA	NA	N	A	NA	NA	NA	NA
	functional								
15 SECONDARY	Integrity- No standing	Neczorg.							
CONTAINMENT	water/waste, erosion,								
	or signs of a spill	OK . 3A							
16 (UN)LOADING	No spills or								
AREA	deterioration	OK							
17 RUN-ON/OFF	Integrity- no ponding,								
CONTROL	erosion, or damage	OK			l				
	Container S	torage Units	and/or Ta	nks (se	e instr	uctions)			
18 COVERS/LIDS OF	Closed and secured	AR2019-85	\$41.9.19	AR2	019-01				
CONTAINERS	properly								recession la
<sup>19</sup> LABELS	Proper with start date,	AR2019-030	4801.9.19						
	present & legible	Al 2019 - 040 Al 2019 - 050	6261.9.19						
		A 2219-050	7861-9-19	1					
1									
20 000 45 4 55 55	0 1 1	-		-	-			-	1
<sup>20</sup> COMPATIBILITY	Separated according	0 K							7 )
21	to compatibility			+				10	-
<sup>21</sup> INTEGRITY	No leakage, corrosion,		1				1	2/2	7
	or damage							D) $P$	
13/1 F 1 100 1 1 1 1		o K				/	(0)	$\top$ /	
		OVL							
<sup>22</sup> AISLE	Appropriateness and		<u> </u>						
SPACE/STACKING	adequacy							7	
	1)	OK							
		1	<b></b>			W	RKINGC	OPY	L

ATTACHMENT 1, EWMO-DOP-20215, R.2

Z# [[4188]
INITIAL & DATE 1- 7-19
At 1-31-19

bben t

FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:
Pad 9 CSU		1-719	1-13-19

ITEM	INSPEC	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		υK						T
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		NA	NA	NA	NA	NA	NA	NA
			Ot	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover		NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage		NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion		NA	NA.	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural and condit equipment systems	ion of	NA	NA	NA	NA	NA	NA	NA
			MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE	1.719						
		<sup>30</sup> TIME	1639						
		31 INSPECTOR(S)	Ch.r.J. C. shA						

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32.  AR. 2019 of (Done meintener X1-7-19) right above Sump mutt. Cross mediate brockets are bend and one cross beam bracket is broken but hours snow bend and one cross beam bracket is broken but hours snow AR. 2019 - 32 (I tun 14) (1.7.19) located in Col 12 and 14 Sw B LADOUGOOD 7003   has weter on 1:2 and construit presentation of script where is dripping on it. Please Correct tiell closed a new Radioactive sticker places on Drum AR 2019 - 03 (2 ten 19 (1.7.15) Col 40 (2 R 7 Haz whest 53 gal drum #LADOUGOO 6 8 954 and 2019 of 1-8.19 get 19.19 g
AR-2019 of (Done mentener X1-7-19) Fight above Sump mut. Cress mediate of arc
AR-20/9 of (Done Mentener 1-7-19) Pight above Some Mart. Sec 7.7.19
FIRE Legis
I have gross from bracket is bloken were
bont and the grant of the grant
10 2016 03 (7 doing 18) (1.7.19) Location to 11 (1.864)-819 Water Francis From 1. administration (1.7.19)
11. 2017 - 1 A COM and Deux Co (Text tiest in the Anger) (3423 if has
whet is drifting or the state of the country where is the on prom
Dail Closed a new Radioaction States of the
AK 2019 -05 ( 4700) ( 1711) 00 100 Nove 1 1819 de
Ect. 9.19 a Lenne PAD GOACHUC Stive Plans 100
25 11 - waste from SEGI from # LA OTOCOO 6,8 13 tach 2
1000 to 300 (7-10) 1 (11/1 ) 28 Ho 20000 to 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
14x2019-24 (16m17) (1717) (21219 - 22 973) 5541 1,0m x ar both Missing the
8c199 Col 44 L2 R 9 50 Drum H W 83 13 1 20 1 20 20 20 20 20 20 20 20 20 20 20 20 20
Casa Ecitivi - Cali closed - 8.19 both drums have new Radiochive stelled place on them.
of carloading strough the
Al-2019-00 (Aten 19) (1-7-19) cold (10 1 Down # 53 x 34 H 11
AR2019. set (I tem 19) (-7-19) Col 44 LD 25 Ho zeruste Irm 55 gal drum #LADDOCCO 68954 and Sc199 Col 44 LD Ry 55 to Drum H w839332 55 gal drum & are both missing the sc199 Col 44 LD Ry 55 to Drum H w839332 55 gal drum & are both missing the ob Radioactive Streker field closed 1-8-19 both drums have new Radioactive sheet Place on thin- 30 AR-2019-05 (Flen 19) (1-7-19) col 48 L1 R 1 Drum #53834 Haz worldown and col 48 L1 P Drum #53834

FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:	
Pad 9 CSU		12/31/18	01/06/19	

ITEM	INSPECTED FO	R: MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of condition that could result in failure		(			av		
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		NA	NA	NA	NA	NA	NA
		0	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS			ŊA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
	T of sterms	MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> <b>DAT</b>	E				orlowing		
	<sup>30</sup> TIMI	Ε				0940		
GOPY 1-9.19 2c	31 INSPECTOR(S)					ussall Trayith		

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

containers. &c 1.9.19

#### Part II- Continued.

#### Part III- Comments

Not 2019-01 (Dome memberce) (1-7-19) right above som p there is a Section of dome

(Note that is torn, also most of the sump there are three tears

on dome from place evolute and report

NRC 2019-02 (I tent 15) (1-719) There is a snow in side the sump appears appear appears

in with end tentor length solligid. This is due to tear in findic.

# Dome 230 Open AR's

AR Date opened Date Closed Description

Monday, January 7, 2019

# Dome 230 Open NRC's

NRC Date opened Date Closed Description

2018-02

Monday, January 7, 2019

#### Gail M. Helm

From: Gail M. Helm

Sent: Thursday, January 31, 2019 10:42 AM

**To:** Kathryn Roberts **Subject:** Snow on containers

#### Katie,

Per our earlier discussion, I would like to clarify issues/questions/concerns in regards to snow/ice/water observed on waste containers, as documented earlier this month within the IRFs and in light of the dome fabric tears due to heavy snow loading.

Heavy snow loading during the early part of January did allow snow to fall into the Domes 229 and 230. In both locations snow was observed only in the sump areas. No snow was observed on any of the waste containers and the snow is measured to be at approximately 25 feet away from the nearest waste container.

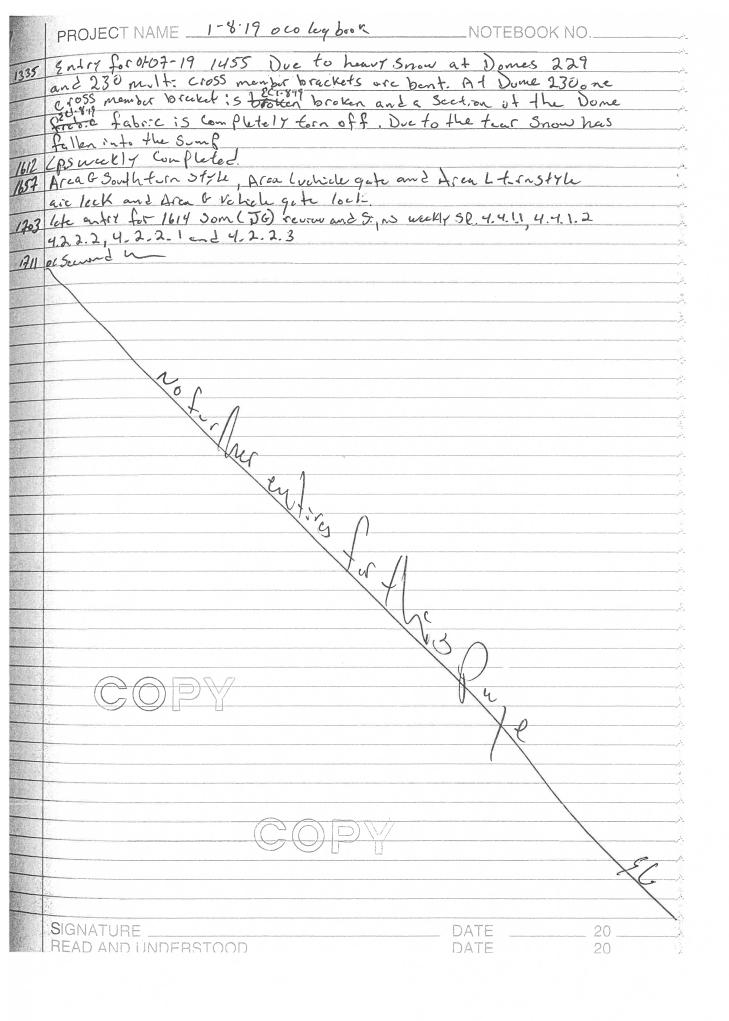
Snow/ice/water observed at any time during the month of January, or prior, is due to the existing condition of the dome fabric. This is a separate condition and unrelated to the dome fabric tears caused by the heavy snow loading. Due to degradation of the dome fabric, there are "pin-holes" in the fabric directly above stored waste containers. When snow/ice/water is observed on waste container lids, the snow/ice/water

Is removed and fire retardant plastic is then placed over the storage array of the affected waste containers. This practice has been evaluated and is approved by Fire Protection and Safety Basis.

There is a planned effort to correct the dome fabric during the re-skinning project of the domes beginning this quarter.

Gail Marie Helm
CH-TRU Facility Operations Manager
Cell: (505) 309-1319
LOS
Alamos

	PROJECT NAME <u>OI/O7/19</u> <u>DCG LGG</u> NOTEBOOK NO
79V0	455 une 000 Dulies + cemain in staffing condition 2.
0845	Entering ADP 2022 20202 1:053 of electronic budge reader
0906	MS#5 radio checks SAT.
0909	ASTIG radio check SAT.
0910	snow removal taking place in Area G+L,
0923	snow removed taking place in Area G+L.  Ops CTR personnel located @ 54-242 next to east gate, to let personnel out of
	oxla G.
1016	Evacuation about testing is being performed in orea 6+L.  Permission granted by SOM to fill dewars in Dome 283.
1025	Permission granted by SOM to fill dewers in Dome 283.
1118	Evacuation alarm testing is complete, in area GdL, Permission granted to fill dewers @ HENLZ.
129	remission granted to fill dewers @ HENLZ,
337	RP four @ Area G with (JGB)
358	IT fixed APACS Exited ADP-20202, Som notified
1955	Informed by som to notify Nuc ops to do RCRA in Done 229 + 280
1503	Area L gale locked by Heavy egupment operator.
1518	Accord sampling team replaced pump in CRA-7
1529	Domes 229 + 230 needs to be roped off per SOM Permission granted to JG+IT to enter Bldg 325 to check fiber optics
1/012	Area G + L turnstiles locked.
165	Area G maingale locked.
	No futher tertions
	101000000000000000000000000000000000000
	$\sim$
	18:1
grand and a second	
35 G	01/02/19
	V/3
E 22	
1990	
2 E4	
16 T	SIGNATURE DATE 20
	READ AND UNDERSTOOD DATE 20
His Carlotte	*



IIAZARD	OUS WASTE	TICIE	III II II II					
<sup>1</sup> FACILITY: TA 54 – 230			ENT, STORA	′ 1	START DAT	E: 4	END DATE	E:
Pad 9 CSU		OR DISPO	SAL UNIT (1	rsd)	مأسلم			
					12/31/18		0(106/19	
<sup>5</sup> X Containers L	andfill Chemica	l Treatmen	ıt _ Tank		Miscellane	ous Unit (Ol	B/OD, Cen	nentation)
		OZ NA D		al on AD	I Astion Dogs	rinadi) in aalı	ma for dos	inanastad
PART I- Enter condition		MON	TUE	WED	THU	FRI	SAT	SUN
ITEM 6 NO UNIT USE	INSPECTED FOR: No waste stored	IVION	1	WED	1110		SAI	SUN
NO UNIT USE	No waste stored		Holiday			20		
<sup>7</sup> NO WASTE	No waste handled (see		1 , ' 1			a		
HANDLING	instructions)							
		Table of the second of	All TSDs			-1		Take the control of the control
<sup>8</sup> COMMUNICATIONS	Availability and							Contract of
EQUIPMENT	proper operating	NA	NA	NA	NA	NA	NA	NA
0	condition					400 March 1990 M		2023/04/20
9 WARNING SIGNS	Posted, legible, and	NA	NA	NA	NA	NA	NA	NA
10 oportpray	bilingual			THE THEFT			ALCOHOLOGICAL STREET	
10 SECURITY	Good condition of fences, gates, locks,							
	and other access	NA	NA	NA	NA	NA	NA	NA
	control equipment					123,000	100	
11 WORK SURFACES/	Absence of conditions	THE REST OF LESS		TO MEN			N. Property	armin de s
FLOORS/ROADS	that could lead to an			410		Or .		
1 BOOKS ROTES	accident or spill					10		
12 SPILL/FIRE	Present, appropriate,			No. of the last			AT 12 12 15 15 15 15 15 15 15 15 15 15 15 15 15	
EQUIPMENT	and in proper					a		
<b>第</b>	operating condition							
13 EYEWASHES/	Proper operating	200			5			07-10-57
SAFETY SHOWERS	condition					a		tes a se
14 WIND SOCK	Proper operating	20-00-00				10000000	1733152.15	
	condition and	NA	\ NA	NA	NA	NA	NA	NA
	functional				E 2.000			
15 SECONDARY	Integrity- No standing						1 1111 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	B. S. W. C.
CONTAINMENT	water/waste, erosion,		\			au		
	or signs of a spill							
16 (UN)LOADING	No spills or					a		
AREA	deterioration	-	<del>                                     </del>	_		-		-
17 RUN-ON/OFF	Integrity- no ponding,					•		
CONTROL	erosion, or damage					88.		L
18 001/2004/200	Container S	torage Unit	s and/or Tan	ks (see ir	istructions)			1
18 COVERS/LIDS OF	Closed and secured		1 1 1		İ	4.02018-01		
CONTAINERS	properly				-	-		
<sup>19</sup> LABELS	Proper with start date,		\					
	present & legible					a		
			\					
<sup>20</sup> COMPATIBILITY	Separated according					æ		
	to compatibility							
<sup>21</sup> INTEGRITY	No leakage, corrosion,							
	or damage					~		
	1					a		
			[ ]					
<sup>22</sup> AISLE	Appropriateness and							
SPACE/STACKING	adequacy		] ] ]			a		
	<u> </u>	1						

ATTACHMENT 1, EWMO-DOP-20215, R.2 WORKING COPY

Z# 216146
INITIAL & DATE orloy 19

<del></del>	<del></del>			
FACILITY: TA 54 - 230	Site ID #:1987	START DATE:	END DATE:	
Pad 9 CSU		12/31/18	01/06/19	

ITEM	INSPEC'	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence o that could failure	f conditions result in		(			av		
<sup>24</sup> TANK SYSTEMS	Discharge and fill lev corrosion	el and no	NA	NA	NA	NA	NA	NA	NA
		3 201	0	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence a condition of		NA	NA.	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	and no ero	Condition of cover, and no erosion, leakage, or damage		ŊΑ	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion		NA	NA	NA	NA	NA	NA NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural and condit equipment systems	ion of	NA	NA	NA	NA	NA	NA	NA
<del></del>			MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE					Beloulea		
		<sup>30</sup> TIME					2940	·	
		31 INSPECTOR(S)					Lusall Tayith		

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32.	ARROY WI (THEM # 18) [01/04/9] Located on	K10+12	sam on	her of container.

Part II- Continued.	
	i
Part III- Comments	
33,	

# Dome 230 Open AR's

AR	Date opened	Date Closed	Description	
2018-04				

Friday, January 4, 2019

# Dome 230 Open NRC's

NRC	Date opened	Date Closed	Description	
2018-02				

Friday, January 4, 2019

	20: 10 11 1007	TO CATAC	UT CTOR	A C F	3.07.4	RT DATE		END DATE	1
<sup>1</sup> FACILITY: <b>TA 54 – 23</b> 0		TREATME							104
Pad 9 CSU		OR DISPOS	AL UNIT	(18D)	1	- 7.19		1-12-1	7
<sup>5</sup> X Containers L	andfill Chemica	i Treatment	: Tan	ık				)B/OD, Cen	
PART I- Enter condition			_						
	INSPECTED FOR:	MON	TUE	WE		THU	FRI	SAT	SUN SUN
ITEM		MON	TUE	VV E	U	Inu	FKI	SAI	SUN
6 NO UNIT USE	No waste stored	NA		-					
7 NO WASTE	No waste handled (see	6K_			- 6				
HANDLING	instructions)		All TSDs						
Page and Page American		The Control of the Co	All 15DS	NEW WAY	d.androsco	CONTRACTOR NAMED	europsanos situat	a - decision and a second	2019/04/98/25/2014
<sup>8</sup> COMMUNICATIONS EQUIPMENT	Availability and proper operating condition	NA	NA	N/		NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N/		NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N/		NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill	oK							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2017.08	EC -9+1						
<sup>13</sup> EYEWASHES/ SAFETY SHOWERS	Proper operating condition	oK							
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N	4	NA	NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion,	Nec 2019.							
16 (I DIN OADDING	or signs of a spill No spills or	90 1-11		-	-			+	
16 (UN)LOADING AREA	deterioration	ok							
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	oK							
CONTROL	Container S		and/or To	nke fee	e instr	uctions)			
18 COVERS/LIDS OF	Closed and secured	AL 2019-25	21.4.4	ARA	19-01		77 6	1 1 1 1 1 1 1	
1.0	I	n	0.000.000		, ,,				
CONTAINERS  19LABELS	Properly Proper with start date, present & legible	APZ019-030 ARZ019-040 ARZ019-040 ARZ019-040	5 EL1-7-19						
<sup>20</sup> COMPATIBILITY	Separated according to compatibility	oK							
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage								
		o V							
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy	oK				199			
				_		W	RKING	OPY	1

ATTACHMENT 1, EWMO-DOP-20215, R.2

Z# 1(4188 INITIAL &C DATE 1-7-19

# bben t

	<del></del>		
FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:
Pad 9 CSU		1-7.19	1-13-19

ITEM	INSPECTED FOR	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of condition that could result in failure							5611
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
		0	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> DATE	1.749						
	30 TIME	1639	· · ·					
	31 INSPECTOR(S)	(h. p.) C. d of						

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32.  AR-2019 of (Done mentione X+7-19) right obove Sump mul. Cross medic, brockets are bond and one cross beam bracket: s broken had hours now  bond and one cross beam bracket: s broken had some LADOUDOUD 7003   has writer on 1:2 and referreday.
hand and one cross beam bracked: s broken but how snow 7003   has water on ! d an interestandar!
bond and one cross beam Spacked: S broken due to houry snow  bond and one cross beam Spacked: S broken due to houry snow  All . 7019 - 32 (I ten 14) (1.7.19) located in Col 12 and 14 Sw & LADOUDOUD 7003   has we ter on 1:2 any integrated and selection of we had is dripping on it. Please to met tight closed 1.8:19 water remand from 1:3 any location feet 1:3 general weeks is dripping on it. Please to met tight closed 1.8:19 water remand from 1:3 any location feet 1:3  All 7019 - 32 (I ten 19 (1.7.15) Col 40 L 2 R 7 Haz wish to 55 gal drive Rediseastive sticker plant on Drime 12:19 feet a new Rediseastive sticker plant on Drime 12:19 feet a new Rediseastive sticker plant on Drime 12:19 feet 13:19 f
AR 2019-03 ( Item 19 (1.7-19) 60 40 62 R7 Hazurs de 33 921 Charla new Radioactive sticker plant on Drus
AR-2019- OF (Flow 19 X 1-7-19) col 48 LIRI Drunk 538 34 Haz worldown and col 48 LIPA Drunk 58297
AR2019-34 (Jen 19) 1-7-19) Col 44 L & the 1839332 55901 From & are both missing the
of Radiones of Stollar felt closed 1-8-19 both around sadion in should place on from 5 100 200 100 100 100 100 100 100 100 100
201-9-19

#### Part II- Continued.

Both are missing latination of the form a glasse Eight Cheer & 15 both Drums have new lubratives stokers

Both are missing lationarising stoker plans affecting the Severy plans to the State of the Severy plans have new lubratives to the Drums have new lubratives affectives the State of the

#### Part III- Comments

33.

NO 2019-01 (Done mentence) (1-7-19) right above som p there is a Section of downe

(note that is total, also most of the sump there are there tears

on done findic place evalute and report

NORC 2019-02 (I teneth 15) (1-719) There is snown inside the sump apparts approx 2 pallote

in with and length proligied. This is Due to tear in findic. I

AR	Description	Date opened Responsible pe	ersor Status	Date Closed Verified by
2019-01	(Item#18)[01/04/19] Located on C10 & C12 snow on fire retardent plastic. Snow was removed from fire retardent plastic.	1/4/2019 Rick Martinez	Field Closed	1/4/2019 EC
2019-02	(Dome Maintenance) Right above sump mult. Cross beam bracket are bent and one cross beam bracket is broken due to heavy snow.	1/7/2019 Maintenance	Repeat	
2019-03	(Item18) :pcated om C12 and C14 SWB LA00000070031 has water on lide and water is dripping on it. Please correct. Water was removed from lid and covered with fire retardent plastic.	1/7/2019 Rick Martinez	Field Closed	1/7/2019 EC
2019-04	(Item19) C40 L2 R7 Hazardous Waste 55 gal drum #LA00000063833 has a damaged Rad Sticker. Please replace. New Radioactive Sticker was placed on the drum.	1/7/2019 Randy Fleixchacker	Field Closed	1/7/2019 EC
2019-05	(Item19) C44 L2 R5 Hazardous Waste 55 gal drum LA00000068954 and C44 L2 R9 amd Dri, #W839332 55 gal drum are both missig the Radioactive Sticker. New Radioactive Sticker was replaced on the drums.	1/7/2019 Randy Fleixchacker	Field Closed	1/7/2019 EC
2019-06	(Item19) C48 L1 R1 Drum #53834 hazardous waste drum and C48 L1 R9 Drume #S852971 are both missing Radioactive Waste Stickers. Please replace. New Radioactive Stickers was replaced on the drums.	1/7/2019 Randy Fleixchacker	Field Closed	1/7/2019 EC
2019-07	(Item19) C66 L1R2 Drum W820051 and C68L1R2 Drum #W820054 and C68L1R26 DrumW816848 are missing Radioactive Sticker. Please replace. New Radioactive Sticker was replaced on the drums.	1/7/2019 Randy Fleixchacker	Field Closed	1/7/2019 EC

AR	Description	Date opened	Responsible perso	Status	Date Closed	Verified by:
2019-08	(Item12) Spill kit is missing the TID it is Icoated next to Door G. Please reinventory and replace TID.	1/7/2019	Gail Helm	Field Closed	1/7/2019	EC
2019-09	(Dome Maintenance) All personnel exit doors are except for Door G and H are blocked by snow. Please address. Snow was removed from doors.	1/7/2019	Maintenance	Field Closed	1/7/2019	EC

NRC	Description	Date opened	Responsible person		Status	Date Closed	Verified by
	(Dome Maintenance) Right above sump there is a section of dome fabric that is torn, also west of the sump there are three tears on dome fabric. Please Evaluate and repair	1/7/2019	Maintenance	New			
100	(Item15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.	1/7/2019	Maintenance	New			

## Dome 230 Open AR's

Description

Description

Description

Description

Description

Description

Description

Monday, January 7, 2019

FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:	0.0
Pad 9 CSU		1 12/31/18	01/06/19	7/8

ITEM	INSPEC	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
PALLETS AND RAISED CONTAINERS	Absence o that could failure	f conditions result in	2				av		
<sup>24</sup> TANK SYSTEMS	Discharge and fill lev corrosion	el and no	NA	NA	NA	NA	NA	NA	NA
			Ot	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence a condition of		NA	NA.	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage		NA	ŊA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion		NA	ŊA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural and condit equipment systems	ion of	NA	NA	NA	NA	NA	NA	NA
	1 -7	-	MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE					Broula		
		<sup>30</sup> TIME					1940		
1-9.19 2c		31 INSPECTOR(S)					fussell Tayith		

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action.

Attach additional sheets if necessary. If more than one action is required, number each AR.

- octoula Azzora wi (Them #18) [orlo field Closed 1-9-19 or	The content on K10+12 sum on leds of containers, & Telistic on 2.13'19 snow removed. Correction on 2.13'19 snow removed from fire retordent ? lastic Ec.	

<sup>1</sup> FACILITY: TA 54 – 230 Pad 9 CSU	TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)			<sup>3</sup> START DATE:			4 END DATE: 01/20/19		
<sup>5</sup> X Containers L	andfill Chemica	al Treatmer	nt Tank		0	Miscellaneo	us Unit (	OB/OD, Cen	nentation)
PART I- Enter condition									
ITEM	INSPECTED FOR:	MON	TUE	WE	ED	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored		NA						
<sup>2</sup> NO WASTE	No waste handled (see		1/400						
HANDLING	instructions)		All TSDs				10.89		
8 COMMUNICATIONS	Availability and	T. Howeless Code Code	All ISDS	200709	DS I	8 ST. WEST CO. ST. CO. CO.	NO FORESTON	OR AND ADDRESS OF	HEROSENSIA M
EQUIPMENT	proper operating condition	NA	NA	N.	A	NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N.	A	NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N.	A	NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill		oL						
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		Œ						
<sup>13</sup> EYEWASHES/ SAFETY SHOWERS	Proper operating condition		æ						
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N.	A	NA	NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill		æ						
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration		COME.						
17 RUN-ON/OFF	Integrity- no ponding,	1	<del>                                     </del>			+			<del> </del>
CONTROL	erosion, or damage		are						
100	Container S	Storage Uni	ts_and/or Tar	ıks (se	e ins	structions)	_		
18 COVERS/LIDS OF	Closed and secured		AR 2619-						
CONTAINERS	properly		112.10					_	
<sup>19</sup> LABELS	Proper with start date, present & legible		AR	ļ					!
<sup>20</sup> COMPATIBILITY	Separated according to compatibility		æ						
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage		æ						
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy		OK.						

ATTACHMENT 1, EWMO-DOP-20215, R.2

WORKING COPY Z# 21446

FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:	
1710101111.1A 34 - 230		Jonath Phile.	DINDONIE.	
Pad 9 CSU		مرايد دا د د	ماد الــا	
1 au 7 C30		01113117	011120119	
rad 9 CSU		51/14/19	01/20/19	

ITEM	INSPECTED FOR	: MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of condition that could result in failure		ar			17		SON
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
			Other TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
<u> </u>		MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> DATE		01/15/19			- 4	5.11	5511
	<sup>30</sup> TIME		0910					_
	31 INSPECTOR(S)		Pussell Tayillo					

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 0((15/19: No New (55005.	

Part II- Continued.	
	377
	x
Part III- Comments	
33.	
	G.

bbon t

### HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

	FACILITY: TA 54 – 230	Site ID #:1987	START DATE:	END DATE:
i	Pad 9 CSU	i	1-7.19	1-13-19

ITEM	INSDEC	TED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND		of conditions	MON	TOE	WED	1110	TKI	SAI	3011
RAISED	that could result in		ok		188	- X			
CONTAINERS		failure					Vic-	193	
<sup>24</sup> TANK SYSTEMS		Discharge controls							
	and fill lev		NA	NA	NA	NA	NA	NA	NA
	corrosion	or leakage							
	.,		<b>O</b> 1	her TSDs					
<sup>25</sup> SHAFTS/LANDFILL	Presence a		NA	NA	NA	NA	NA	NA	NA
COVERS	condition		1171	11/1	177	1378	1112	1 121	1 172 1
<sup>26</sup> OPEN BURNING	Condition								
UNITS	and no ero		NA	NA	NA.	NA	NA	NA	NA
<sup>27</sup> OPEN	leakage, o Unit and v								
DETONATION	condition		NA	NA	NA	NA	NA	NA	NA
UNITS	erosion	and no	177	1	'''		1		
<sup>28</sup> CEMENTATION	Structural	integrity							
UNITS	and condit		NA	NA	NA NA	NA	NA	NA I	NA
	equipment	and	INA.	INA	I NA	NA.	NA	INA.	INA
	systems								
			MON	TUE	WED	THU	FRI	SAT	SUN
		<sup>29</sup> DATE	1.7/19						
		30 TIME	1639						
		31 INSPECTOR(S)	Ch.r.) 6. d A						

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action.

Attach additional sheets if necessary. If more than one action is required, number each AR.

Attach additional sheets if necessary. It more than one action is required; number each fix.
32. 02 - 1 V - 1 2 - C - 2 Metal Cross metal breckets arc
32.  HR-2019 of (Dome mentioner X+7-19) right obove Sump met. Cross meters of breckets are bent and one cross beam brocket:s broken due to hour snow  bent and one cross beam brocket:s broken due to hour snow  bent and one cross beam brocket:s broken due to hour snow  bent and one cross beam brocket:s broken due to hour snow  bent and one cross beam brocket:s broken due to hour snow that some the sound the precent due to the sound to the state of the sound to the state of the sound to the state of the sound to the state of the state
bond and one class of an in Col 12 and 14 Sw 8 LADOGO 7003 1 has 1: 4 and love 2 in the precentation
112.2019 weter is dripping on it. Please Correct state \$5 gal drown # LA000000 63833 To Mas 2019 11 Weber is dripping on it. Please Correct state 55 gal drown # LA000000 63833 To Mas 2019 10 10 10 10 10 10 10 10 10 10 10 10 10
AR. 2019 - 32 (Item 14) (1.7.19) located in Col 12 and 14 Sw B LADOODO 7003   has writer on 1:2 an interpretentant  AR. 2019 - 32 (Item 14) (1.7.19) located in Col 12 and 14 Sw B LADOODO 7003   has writer on 1:2 and lower interpretentant  AR. 2019 - 32 (Item 14) (1.7.19) located in Col 12 and 14 Sw B LADOODO 63433 is had  script writer is dripping on 14. Please Correct interpretent on the LADODOOD 63433 is had  AR 2019 - 33 (Item 19 (1.7.15) 60 40 62 R7 Hazwiste 55 9a (Irum # LADODOOD 63433 is had  AR 2019 - 33 (Item 19 (1.7.15) 60 40 62 R7 Hazwiste Diels Closed a new Redirective sticker planes on Drim  AR 2019 - 34 (Item 19 (1.7.15) 60 40 62 R7 Hazwiste Jrum 55 9al Irum # LADOODOO 68 954 and
A 220194 ( I tem 19 X1-7-19) 61.44 ( 225 Ho zerasta som ) 59 at 2000 to the missing the
Radraus Cottellar Geld Closed 1-8-19 both drums have new Radioctive steeler place on them. 80
AR 2019. Add (Jennye RAD forther Sticker plan retains 159al from #LADVORED 68954 and AR 2019. Add (Jennye) (1-7-19) Colored Lag 5 Hozerasta from 559al from #LADVORED 68954 and Scing Colored Colored Lag 5 the Drum H w839332 559al from Sare both missing the Scing Colored

ATTACHMENT 1, EWMO-DOP-20215, R.2

201-14-19

Part II- Continued. 7A-54-730 PAJ9 CSU EC 1.14-19

#### Part III- Comments

Nec 2019-01 (Done mentern) (1-7-19) right above som p there is a Section of downe (Nore that is torn, also most of the samp there are three tears on done from please evolute and reprint

NRC 2019-02 (I tent 15) (17-19) There is snow inside the samp appears appears appears in with and length roofiguit. This is due to tear in faction.

# Dome 230 Open AR's

AR	Date opened	Date Closed	Description
2019-02	1/7/2019		(Dome Maintenance) Right above sump mult. Cross beam bracket are bent and one cross beam bracket is broken due to heavy snow.

# Dome 230 Open NRC's

NRC	Date opened	Date Closed	Description
2019-01	1/7/2019		(Dome Maintenance) Right above sump there is a section of dome fabric that is torn, also west of the sump there are three tears on dome fabric. Please Evaluate and repair
2019-02	1/7/2019		(Item15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.

FACILITY: TA 54 – 230 Pad 9 CSU		TREATMEN OR DISPOS				ART DATE	:	⁴END DATE	
	Ш	l Treatment	Tan		Ш		•	OB/OD, Cen	·
PART I- Enter condition		MON	TUE	WE	N [A	THU	FRI	SAT	SUN
ITEM 6 NO UNIT USE	INSPECTED FOR: No waste stored		TUE			THU	FKI	SAI	SUN
		Holitay		No	<u>&gt;</u>				
7 NO WASTE	No waste handled (see	,		at	-				
HANDLING	instructions)		H TCD.				ES = 50		
0		A	ll TSDs	( secondors	NOT DESIGN	eran containe	540000000000000	NAME OF THE PARTY	ENGLANCE
<sup>8</sup> COMMUNICATIONS EQUIPMENT	Availability and proper operating condition	NA	NA	N.	<b>Y</b>	NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N/	Υ	NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N/	Δ.	NA	NA	NA	NA
11 WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill			æ					
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition			æ					
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition			6	e				
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N/	A	NA	NA	NA	NA
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill			æ					
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration			d	٤				
<sup>17</sup> RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	/		a					
	Container S	torage Units	and/or Ta	nks (se	e inst	ructions)			
18 COVERS/LIDS OF	Closed and secured			Ot					
CONTAINERS	properly			(6)					-
<sup>19</sup> LABELS	Proper with start date, present & legible			æ					
<sup>20</sup> COMPATIBILITY	Separated according to compatibility			œ.	,				
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage			œ.	<u>-</u>				
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy			84	r				

ATTACHMENT 1, EWMO-DOP-20215, R.2 WORKING COPY

Z# 216146
DATE 012319

FACILITY: TA 54 – 230 Site ID #:1987 START DATE: END DATE: 1-21 – 19

<u>ITEM</u>	INSPECTED FOR:		MON	TUE	WED	THU	FRI	SAT	SUN
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		(		Ok.				301
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage		ŊA	NA	NA	NA	NA	NA	NA
26		580	Ot	her TSDs				77	
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover		NA.	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage		N	NA	NA	NA	NA	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion		NA	NA	NA	NA	NA	NA	NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems		NA	NA	NA	NA	NA	NA	NA
· · · · · · · · · · · · · · · · · · ·			MON	TUE	WED	THU	FRI	SAT	SUN
	<sup>29</sup> I	DATE			a/23/A				
	30 7	гіме			0930				
		31 INSPECTOR(S)			Russell Trayillo				

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 01/23/19: No New Issues.	
	*

Part II- Continued.			
Part III- Comments			
33.			

# Dome 230 Open AR's

AR	Date opened	Date Closed	Description
2019-02	1/7/2019		(Dome Maintenance) Right above sump mult. Cross beam bracket are bent and one cross beam bracket is broken due to heavy snow.

### Dome 230 Open NRC's

NRC	Date opened	Date Closed	Description
2019-01	1/7/2019		(Dome Maintenance) Right above sump there is a section of dome fabric that is torn, also west of the sump there are three tears on dome fabric. Please Evaluate and repair
2019-02	1/7/2019		(Item15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.

FACILITY: <b>TA 54 – 230</b> <sup>2</sup> Site ID #:1987		OR DISPOSAL LIMIT (TSD)			ART DATE:		4 END DATE:		
Pad 9 CSU	andfill Chemical	Treatment	Tank	7 Pro-12 - 21%	Iiscellaneou			entation)	
	of the item inspected (i.e. C	NA INO							
ART I- Enter condition of	the item inspected (i.e.	MON	TUE	WED	THU	FRI	SAT	SUN	
ITEM	INSPECTED FOR: No waste stored	MON	TOL				0750 TOM: 5-0		
NO UNIT USE				20					
NO WASTE HANDLING	No waste handled (see instructions)			OK.					
		A	II TSDs	To the testing of	375 S (200 PD 8) 80	MARCH NAME	CHECK TO BE SEEN	March College	
COMMUNICATIONS EQUIPMENT	Availability and proper operating condition	NA	NA	NA	NA	NA	NA	NA	
WARNING SIGNS	Posted, legible, and bilingual	NA	NA	NA	NA	NA	NA	NA	
Offingual  Occupance	NA .	NA	NA	NA	NA	NA	NA		
WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill			ОК					
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition			a					
13 EYEWASHES/ SAFETY SHOWERS	Proper operating condition		7. E. E. S. C.	as.					
14 WIND SOCK	Proper operating condition and functional	NA	NA	NA	NA	NA	NA	NA	
15 SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill			æ					
16 (UN)LOADING AREA	No spills or deterioration			ac			ļ		
"RUN-ON/OFF CONTROL	Integrity- no ponding,			az					
COMMOD	Container S	torage Unit	s and/or T	anks (see in:	structions)				
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly			æ				-	
<sup>19</sup> LABELS	Proper with start date, present & legible			œ					
<sup>20</sup> COMPATIBILITY	Separated according to compatibility			œ					
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage			æ					
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy			æ					

Z# 216146

INITIAL ICT DATE also 19

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE:	END DATE:
		<u>  0(1</u> 28119	02/03/19

ITEM	INSPECTED FOR:	MON	TUE	WED				
<sup>23</sup> PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	MON	TUE	WED	THU	FRI	SAT	SUN
<sup>24</sup> TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
25 O. I. A. D. T. A.		0	ther TSDs					
<sup>25</sup> SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
<sup>26</sup> OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA.	NA	NA
<sup>27</sup> OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA NA
<sup>28</sup> CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA NA
		MON	TUE	WED	THU	FRI	SAT	CHN
	<sup>29</sup> DATE			01/30/19		_ TKI	SA1	SUN
	<sup>30</sup> TIME			1530				
	31 INSPECTOR(S)			Russoll Treyiles				

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 01/30/19: No	New Issues	
	3.	
	<del></del>	

Part II- Continued.	 
Part III- Comments	
33.	 

### Dome 230 Open AR's

<u>AR</u>	Date opened	Date Closed	Description
2019-02	1/7/2019		(Dome Maintenance) Right above sump mult. Cross beam bracket are bent and one cross beam bracket is broken due to heavy snow.

## Dome 230 Open NRC's

NRC	Date opened	Date Closed	Description
2019-01	1/7/2019		(Dome Maintenance) Right above sump there is a section of dome fabric that is torn, also west of the sump there are three tears on dome fabric. Please Evaluate and repair
2019-02	1/7/2019		(Item15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.

	201 17 1/1012			<u> </u>	3074	DT DATE.	4	END DATE	. 1
FACILITY: TA 54 – 230	i i i .	TREATMEI OR DISPOS	,		SIA	RT DATE:	'	END DATE	•
Pad 9 CSU		OK DISI OS	AL ONII (	130)	2	14/19		2/0/19	
<sup>5</sup> X Containers Landfill Chemical Treatment Tank Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition	of the item inspected (i.e.		ot Applicab	le], or A	R [Ad	ction Requir	ed]) in colu	mn for day i	nspected.
ITEM	INSPECTED FOR:	MON	TUE	WE	U	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored					NA	<u>NA</u>	NA	
7 NO WASTE	No waste handled (see					OK_	NA	\ \/A	
HANDLING	instructions)		All TSDs			0		70/	181 =
*COMMUNICATIONS	Availability and	NAME OF STREET		21920	28:45:3	Lance Land	WEST CONTRACTOR		
EQUIPMENT	proper operating condition	NA	NA	NA.	`	NA	NA	NA	NA
9 WARNING SIGNS	Posted, legible, and bilingual	NA	NA	N/		NA	NA	NA	NA
<sup>10</sup> SECURITY	Good condition of fences, gates, locks, and other access control equipment	NA	NA	N/		NA	NA	NA	NA
" WORK SURFACES/ FLOORS/ROADS	Absence of conditions that could lead to an accident or spill					Oh			
12 SPILL/FIRE	Present, appropriate,					37.		he charles of a	
EQUIPMENT	and in proper operating condition					OK			
<sup>13</sup> EYEWASHES/ SAFETY SHOWERS	Proper operating condition					ax			
<sup>14</sup> WIND SOCK	Proper operating condition and functional	NA	NA	N/		NA	NA	NA	NA
<sup>15</sup> SECONDARY CONTAINMENT	Integrity- No standing water/waste, erosion, or signs of a spill					W	ok	QL_	
<sup>16</sup> (UN)LOADING AREA	No spills or deterioration					OK-	OK-	Oh_	
17 RUN-ON/OFF	Integrity- no ponding,					OK	- OLC		
CONTROL	erosion, or damage	-	1/ (5)	1				de	
18 COVED C/L IDS OF	Container St	torage Units	s and/or Ja	nks (sec	e instr				]
18 COVERS/LIDS OF CONTAINERS	properly					Q-	Ole	Oh	
19LABELS	Proper with start date,								
2,,5225	present & legible					ok	ac	ah	
<sup>20</sup> COMPATIBILITY	Separated according to compatibility					OK_	OK	Oh	
<sup>21</sup> INTEGRITY	No leakage, corrosion, or damage					d-	ok	ac	
<sup>22</sup> AISLE SPACE/STACKING	Appropriateness and adequacy					ak_	ok	ar	

ATTACHMENT 1, EWMO-DOP-20215, R.2

WORKING COPY
Z# 293/28
INITIAL DATE Z/7/19

Site ID #:1987 **FACILITY: TA 54 - 230** START, DATE: END DATE: Pad 9 CSU **ITEM INSPECTED FOR:** MON TUE WED THU FRI SAT SUN <sup>23</sup> PALLETS AND Absence of conditions RAISED that could result in OK CONTAINERS failure <sup>24</sup> TANK SYSTEMS Discharge controls and fill level and no NA NA NA NA NA NA NA corrosion or leakage Other TSDs 25 SHAFTS/LANDFILL Presence and NA NA NA NA NA NA NA **COVERS** condition of cover <sup>26</sup> OPEN BURNING Condition of cover, UNITS and no erosion, NA NA NA NA NA NA NA leakage, or damage <sup>27</sup> OPEN Unit and vegetation **DETONATION** condition and no NA NA NA NA NA NA NA **UNITS** erosion <sup>28</sup> CEMENTATION Structural integrity **UNITS** and condition of NA NA NA NA NA NA NA equipment and systems MON TUE WED THU FRI SAT SUN <sup>29</sup> DATE 30 TIME 0850 1203 INSPECTOR(S)

Part II- For any AR (Action Required) in PART I, describe below: action required, action taken, status, date, and time of action. Attach additional sheets if necessary. If more than one action is required, number each AR.

32. 2/1/9: No New Tssnes.
28/19: No New TSSMES. 29/19: No New TSSMES.
29/19: No New T53465.

Part II- Continued.		
r.		
Part III- Comments		
33.		
		1

### Dome 230 Open AR's

AR	Date opened	Date Closed	Description
2019-02	1/7/2019		(Dome Maintenance) Right above sump mult. Cross beam bracket are bent and one cross beam bracket is broken due to heavy snow.

## Dome 230 Open NRC's

NRC	Date opened	Date Closed	Description
2019-01	1/7/2019		(Dome Maintenance) Right above sump there is a section of dome fabric that is torn, also west of the sump there are three tears on dome fabric. Please Evaluate and repair
2019-02	1/7/2019		(Item15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.

From: Gail M. Helm <gail.helm@em-la.doe.gov>

Sent: Monday, January 7, 2019 6:01 PM

To: EventNotification (EXTERNAL) < <a href="mailto:EventNotification@EM-LA.DOE.GOV">EventNotification@EM-LA.DOE.GOV</a>

Subject: Event Notification: Broken Dome Cross Member in Dome 229 and Broken/Bent Dome Cross Member Brackets

in Domes 229 and 230 Due to Heavy Snow Loading at TA-54, Area G

Title: Broken Dome Cross Member in Dome 229 and Broken/Bent Dome Cross Member Brackets in Domes 229 and 230

Due to Heavy Snow Loading at TA-54, Area G

New or Update: New Reported By: Gail Helm Number: 18-TA54-021

Date and time of Discovery: 01/07/2019, 1450

Date and time of Categorization: 01/07/2019, 1500

Location (TA/Building and/or Area): TA-54/Domes 229 and 230, Area G

N3B Program Manager: Danny Nichols

**Description**: On 01/07/2019 at 1450 hours, the CH-TRU TA54 Facility Operations Manager (OM) was notified by the CH-TRU Shift Operations Manager (SOM) of structural integrity issues at Domes 229 and 230, TA-54, Area G. Dome 229 was observed to have a broken dome structure cross member, along with broken and bent dome structure cross member brackets, and torn dome fabric. Dome 230 was observed to have only broken and bent dome structure cross member brackets, and torn dome fabric. Due to the torn dome fabric, snow had fallen and entered into the dome, however the snow is contained in the sump collection areas of each dome. The duty SOM made notification to Engineering to evaluate the structural integrity of Domes 229 and 230. The SOM performed an extent of condition on all domes inside Area G and did not identify any additional abnormal structural integrity issues. Regulatory Compliance has been notified and will make notifications to NMED as appropriate per the facility Hazardous Waste Permit.

The abnormal structural integrity issues are attributed to the heavy snow accumulation events experienced during the work week of 12/31/2018. The affected areas have been isolated from personnel entry. No radiological waste containers have been impacted as a result. FSRs have been submitted to address and correct the structural integrity issues for Domes 229 and 230.

#### **Immediate Actions Taken:**

- 1) The SOM made notification to Engineering to have a structural evaluation performed
- 2) The SOM coordinated isolation and notified personnel of the affected area
- 3) The SOM gathered information to provide to Regulatory Compliance for potential reporting purposes per the facility Hazardous Waste Permit
- 4) The SOM performed an extent of condition of all other dome structures
- 5) FSRs have been submitted to correct the structural integrity issues at Domes 229 and 230

Categorization (ORPS/Sub -ORPS): Sub-ORPS

Report Levels: N/A

Event Reporting Criteria (Group/Subgroup/Sequence Criteria): Group 4, Facility Status

Was the Los Alamos Fire Department (LAFD) engaged? (YES/NO): No

Will a Fact Finding session be held to support event learning? (YES/NO): No

**Gail Marie Helm** 

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