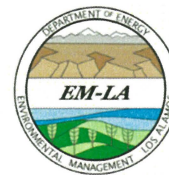




N3B – Los Alamos
600 6th Street
Los Alamos, New Mexico 87544
(505) 661-5918



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 05 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:

1. 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.

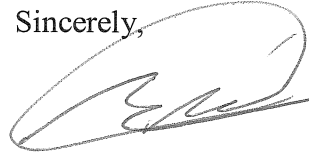
If you have comments or questions regarding this letter, please contact Emily Day at (505) 695-4243 (emily.day@em-la.doe.gov) or Arturo Duran at (505) 665-5330 (arturo.duran@em.doe.gov).

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

Mode
DA-13-S
(Dome 229)

WARM STANDBY

Defined Area
DA-13-S
(Dome 229)

54-229

LPS BONDING AREA
NO STORAGE
ALLOWED WITH Sign 1 of 1
38 IN

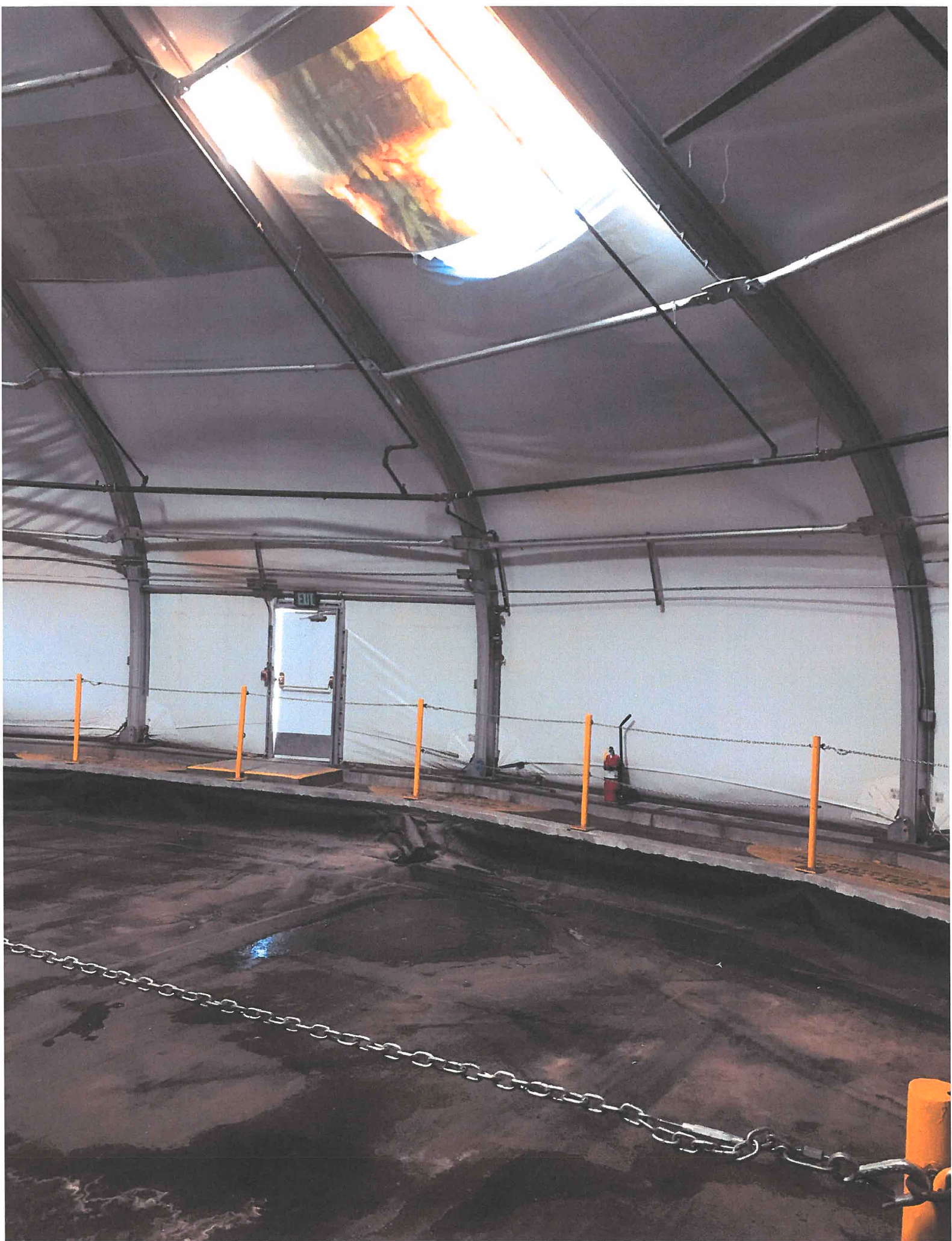
DANGER
HAZARDOUS WASTE
STORAGE AREA
KEEP OUT
PELIGRO

CAUTION
RADIOACTIVE

DANGER
HAZARDOUS WASTE
STORAGE AREA
KEEP OUT
PELIGRO













HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: : TA 54 – 229 Pad 9 CSU		2 Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		3 START DATE: 1-7-19		4 END DATE: 1-13-19	
5 <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
6 NO UNIT USE	No waste stored	NA							
7 NO WASTE HANDLING	No waste handled (see instructions)	OK							
All TSDs									
8 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	
10 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	OK							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2019-01-02 AR 2019-01-05 01-09-19		AR 2019-01-09 1-9-19					
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							
16 (UN)LOADING AREA	No spills or deterioration	OK							
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	OK							
Container Storage Units and/or Tanks (see instructions)									
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly	OK		AR 2019-01-09 01-09-19					
19 LABELS	Proper with start date, present & legible	AR 2019-01-05 AR 2019-01-05 AR 2019-01-05 01-09-19							
20 COMPATIBILITY	Separated according to compatibility	OK							
21 INTEGRITY	No leakage, corrosion, or damage	OK							
22 AISLE SPACE/STACKING	Appropriateness and adequacy	OK							

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

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 Z# 114188
 INITIAL EC DATE 1-7-19
 1-21-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

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

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	OK						
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE	1-7-19						
³⁰ TIME	1700						
³¹ INSPECTOR(S)	ELC T.D. G. de la						

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 2019-02 (1-7-19) Spill kit next to sump is missing its TID (Broken) Field closed 1-8-19
 ELC 1-9-19 Please recount inventory also the electrical conduct is bent above sump
 AR 2019-03 (1-7-19) above sump there are multi cross beam bracket that are bent. Field closed 1-8-19
 ELC 1-9-19 Please repair and repair also the electrical conduct is bent above sump. Due to heavy snow.
 AR 2019-04 (1-7-19) located in Col 05 R 1, 2, 3, 4, 110 gal Haz waste drums don't have Radioactive Field closed 1-8-19
 ELC 1-9-19 Sticker please replace. Field closed 1-8-19 all drum have new Radioactive stickers on them.
 AR 2019-05 (1-7-19) Col 05 L 1 R 1 110 Drum needs to turn down to see label. All none label Field closed 1-8-19
 ELC 1-9-19 (1-7-19) Spill kit next to door G is missing its TID (Broken) please recount inventory
 AR 2019-06 (1-7-19) Spill kit next to door G is missing its TID (Broken) please recount inventory Field closed 1-8-19
 ELC 1-9-19 (1-7-19) Spill kit next to door G is missing its TID (Broken) please recount inventory
 AR 2019-07 (1-7-19) All Personnel Doors except for Doors G, A are block by snow. All personnel doors were cleared of snow not can be Field closed 1-8-19
 ELC 1-9-19 open.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

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

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure					OK		
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE						01/04/19		
³⁰ TIME						0925		
³¹ INSPECTOR(S)						Russell Tenjilis		

COPY

1-9-19.
EC

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.

AR2019-01 (Item #18) [oil spill] : Located on C14 + 15 there is snow on lids of containers, please remove. ^{SL 1-9-19} Field closed 1-9-19 ¹⁹ water removed. ⁰¹⁻⁹⁻¹⁹

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

1-9-19 Due to Paper work Not being up late from last week AR 2019-01 Item #18 off 01/04/19 was not inspected on 1-7-19 but was inspected on 1-9-19 water on fire retardant plastic 0818 EC1

Part III- Comments

33. ~~NR 2019-01~~ ^{EC 1-7-19} (Done Maintenance) (1-7-19) mult. ~~tears~~ ^{EC 1-7-19} Some fabric tears though out done - please evaluate and repair ✓
NR 2019-02 (Item #19) (1-7-19) Located in cots 23, and ~~25~~ ^{EC 1-7-19} 24 mult. BLACK 85 gal drum the are upside but do not have empty ~~label~~ ^{EC 1-7-19} label. They are labeled with a pink label.
Field closed Dr empty sticker were placed on all black drums. EC 1-8-19

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-10			

Monday, January 7, 2019

#Name?

Dome 229 Open NRC's

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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			

Monday, January 7, 2019

#Name?

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



- 0800 Assume DCO Duties + remain in staffing condition 2.
0846 Entering AOP ~~2020~~ 20202 Loss of electronic badge reader.
0906 MS#5 radio check SAT.
0909 MS#6 radio check SAT.
0910 Snow removal taking place in Area G+L.
0923 Ops CTR personnel located @ 54-242 next to east gate, to let personnel out of area G.
1016 Evacuation alarm testing is being performed in area G+L.
1025 Permission granted by SOM to fill dewars in Dome 2B3.
1118 Evacuation alarm testing is complete in area G+L.
1129 Permission granted to fill dewars @ HENL2.
1337 RT four @ Area G with (JGB)
1358 IT fixed DPACS Exited AOP-20202. SOM notified
1455 Informed by SOM to notify Nuc Ops to do RCRA in Dome 229+230
1505 Area L gate locked by Heavy equipment operator.
1518 Aircraft sampling team replaced pump in CRA-7
1520 Domes 229+230 needs to be roped off per SOM
1529 Permission granted to JG+IT to enter Bldg 325 to check fiber optics
1602 Area G+L turnstiles locked.
1615 Area G main gate locked.
1732 No further entries

COPY

Drew

01/07/19

SIGNATURE _____ DATE _____ 20 _____
READ AND UNDERSTOOD _____ DATE _____ 20 _____

1335 Entry for 07-19 1455 Due to heavy snow at Domes 229 and 230 mult: cross member brackets are bent. At Dome 230 one cross member bracket is ^{broken} broken and a section of the Dome fabric is completely torn off. Due to the tear snow has fallen into the sunf

1612 CPS weekly completed.

1657 Area 6 South turn style, Area 6 vehicle gate and Area 6 turn style air lock and Area 6 vehicle gate lock.

1703 late entry for 1614 Som (JG) review and S, no weekly SE, 4.4.1, 4.4.1.2 4.2.2.2, 4.2.2.1 and 4.2.2.3

1711 el Secured

no further entries for this file

COPY

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SIGNATURE _____
READ AND UNDERSTOOD

DATE _____ 20
DATE _____ 20

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: : TA 54 – 229 Pad 9 CSU		² Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 12/31/18		⁴ END DATE: 01/04/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored		Holiday			NA			
⁷ NO WASTE HANDLING	No waste handled (see instructions)					OK			
All TSDs									
⁸ 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	
¹⁰ 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					OK			
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition					OK			
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			
¹⁶ (UN)LOADING AREA	No spills or deterioration					OK			
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage					OK			
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly					AR 01/01/19			
¹⁹ LABELS	Proper with start date, present & legible					OK			
²⁰ COMPATIBILITY	Separated according to compatibility					OK			
²¹ INTEGRITY	No leakage, corrosion, or damage					OK			
²² AISLE SPACE/STACKING	Appropriateness and adequacy					OK			

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

WORKING COPY

Z# 216446

INITIAL RT

DATE 01/04/19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

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

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure					OK		
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE					02/04/19		
³⁰ TIME					0925		
³¹ INSPECTOR(S)					Russell Ferguson		

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. AR2019-01 (Item #10) [01/06/19] : Located on C14+15 there is snow on lids of containers, please remove

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: : TA 54 – 229 Pad 9 CSU		2 Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		3 START DATE: 1-7-19		4 END DATE: 1-13-19	
5 X Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
6 NO UNIT USE	No waste stored	NA							
7 NO WASTE HANDLING	No waste handled (see instructions)	OK							
All TSDs									
8 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	
10 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	OK							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2019-01-07-19 AR 2019-06-27-19		AR 2019-01-07-19 1-9-19					
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							
16 (UN)LOADING AREA	No spills or deterioration	OK							
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	OK							
Container Storage Units and/or Tanks (see instructions)									
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly	OK		AR 2019-01-07-19					
19 LABELS	Proper with start date, present & legible	AR 2019-03-05-19 AR 2019-07-21-19 AR 2019-02-21-19							
20 COMPATIBILITY	Separated according to compatibility	OK							
21 INTEGRITY	No leakage, corrosion, or damage	OK							
22 AISLE SPACE/STACKING	Appropriateness and adequacy	OK							

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

WORKING COPY

Z# 114188

INITIAL 2C DATE 1-7-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: : TA 54 – 229 Pad 9 CSU	Site ID #:1986	START DATE: 1-7-19	END DATE: 1-13-19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	OK						
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS ²⁶ OPEN BURNING UNITS ²⁷ OPEN DETONATION UNITS ²⁸ CEMENTATION UNITS	Presence and condition of cover Condition of cover, and no erosion, leakage, or damage Unit and vegetation condition and no erosion Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
--	--	----	----	----	----	----	----	----

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE	1-7-19						
³⁰ TIME	1700						
³¹ INSPECTOR(S)	E. J. D. G. G. G.						

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 2019-02 (Item 12) (1-7-19) Spill kit next to sump is missing its TID (broken) Field Closed 1-9-19
 Please recount inventory - also the electrical conduit is bent above sump
 Field closed 1-8-19 Spill kit inventory and is out. 22 1-7-19

AR 2019-03 (Done Maintenance) (1-7-19) above sump there are multi cross beam bracket that are bent. Field Closed 1-9-19
 Please repair and repair - also the electrical conduit is bent above sump. Due to heavy snow.
 1-7-19

AR 2019-04 (7 Jan 19) (1-7-19) located in Col of 1, 2, 3, 4, 110 gal Haz waste drums don't have Radioactive 1-7-19
 Field closed 1-8-19 All drum have new Radioactive stickers on them. 22

AR 2019-05 (Item 14) (1-7-19) Col 05 LIR 1 frame 110 Drum needs to turn down to see label. All none label Field Closed 1-9-19
 1-7-19

AR 2019-06 (Item 12) (1-7-19) Spill kit next to sump is missing its TID (broken) please recount inventory Field Closed 1-9-19
 Field closed 1-8-19 Spill kit inventory and is out. 22 1-7-19

AR 2019-07 (Done Maintenance) (1-7-19) All Personnel Doors except for Doors G, A are blocked by snow. Field Closed 1-8-19
 All Personnel Doors were cleared of snow now can be open. 22 1-7-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

1-9-19 Due to Paper work Not being up to date from last week AR 2019-01 Item #18 off 01/04/19 was not inspected on 1-7-19 but was inspected on 1-9-19 water on fire retardant Plastic 0818 EC1

Part III- Comments

33. ^{EC 1-7-19} ~~AR 2019-01~~ ^{EC 1-7-19} Done Maintenance (1-7-19) mult. ~~tests~~ Done fabric tears though out drum please evaluate and report ✓
^{EC 1-7-19} NRC 2019-02 (Item #19) (1-7-19) Located in Cols 23, and ~~25~~ ^{EC 1-7-19} 24 mult. BLACK 85 gal drum the are upside but Donot have empty ~~label~~ ^{EC 1-7-19} label. They are labeled with a pink label.
Field closed Dr Empty sticker were placed on all Black Drums. EC 1-8-19

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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 person	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		
2019-02	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

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: : TA 54 – 229 Pad 9 CSU		² Site ID #: 1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 01/14/19		⁴ END DATE: 01/20/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored		NO						
⁷ NO WASTE HANDLING	No waste handled (see instructions)		OK						
All TSDs									
⁸ 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	
¹⁰ 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		OK						
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		OK						
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						
¹⁶ (UN)LOADING AREA	No spills or deterioration		OK						
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage		OK						
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly		OK						
¹⁹ LABELS	Proper with start date, present & legible		OK						
²⁰ COMPATIBILITY	Separated according to compatibility		OK						
²¹ INTEGRITY	No leakage, corrosion, or damage		OK						
²² AISLE SPACE/STACKING	Appropriateness and adequacy		OK						

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: : TA 54 – 229 Pad 9 CSU	Site ID #:1986	START DATE: 01/14/19	END DATE: 01/20/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		✗					
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE		01/15/19					
³⁰ TIME		0925					
³¹ INSPECTOR(S)		Russell Tawjiko					

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 Issues.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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 frabric tears through out the dome. Please evaluate and repair

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: : TA 54 – 229 Pad 9 CSU		² Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 1-21-19		⁴ END DATE: 1-27-19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored	Holiday	NA						
⁷ NO WASTE HANDLING	No waste handled (see instructions)		OK						
All TSDs									
⁸ 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	
¹⁰ 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		OK						
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		OK						
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						
¹⁶ (UN)LOADING AREA	No spills or deterioration		OK						
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage		OK						
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly		OK						
¹⁹ LABELS	Proper with start date, present & legible		OK						
²⁰ COMPATIBILITY	Separated according to compatibility		OK						
²¹ INTEGRITY	No leakage, corrosion, or damage		OK						
²² AISLE SPACE/STACKING	Appropriateness and adequacy		OK						

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: : TA 54 – 229 Pad 9 CSU	Site ID #:1986	START DATE: 1-21-19	END DATE: 1-27-19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		AK					
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE		1/22/19					
³⁰ TIME		1025					
³¹ INSPECTOR(S)		Atencio / Aguirre					

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 ISSUES.
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HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: : TA 54 – 229 Pad 9 CSU		² Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 02/28/19		⁴ END DATE: 02/03/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK , NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored			NA					
⁷ NO WASTE HANDLING	No waste handled (see instructions)			OK					
All TSDs									
⁸ 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	
¹⁰ 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			OK					
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition			OK					
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					
¹⁶ (UN)LOADING AREA	No spills or deterioration			OK					
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage			OK					
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly			OK					
¹⁹ LABELS	Proper with start date, present & legible			OK					
²⁰ COMPATIBILITY	Separated according to compatibility			OK					
²¹ INTEGRITY	No leakage, corrosion, or damage			OK					
²² AISLE SPACE/STACKING	Appropriateness and adequacy			OK					

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

WORKING COPY

Z# 216146

INITIAL RT

DATE 01/30/19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: : TA 54 – 229 Pad 9 CSU	Site ID #:1986	START DATE: 01/28/19	END DATE: 02/08/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure			OK				
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE			01/30/19				
³⁰ TIME			15:50				
³¹ INSPECTOR(S)			Russell Taylor				

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.
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HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: : TA 54 – 229 Pad 9 CSU		² Site ID #:1986		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 2/4/19		⁴ END DATE: 2/10/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored		NA						
⁷ NO WASTE HANDLING	No waste handled (see instructions)		OK						
All TSDs									
⁸ 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	
¹⁰ 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		OK						
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		OK						
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						
¹⁶ (UN)LOADING AREA	No spills or deterioration		OK						
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage		OK						
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly		OK						
¹⁹ LABELS	Proper with start date, present & legible		OK						
²⁰ COMPATIBILITY	Separated according to compatibility		OK						
²¹ INTEGRITY	No leakage, corrosion, or damage		OK						
²² AISLE SPACE/STACKING	Appropriateness and adequacy		OK						

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: : TA 54 – 229 Pad 9 CSU	Site ID #:1986	START DATE: 2/4/19	END DATE: 2/6/19
--------------------------------------	----------------	-----------------------	---------------------

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		OK					
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE		2/5/19					
³⁰ TIME		1050					
³¹ INSPECTOR(S)		A. Hecdo Aguilar					

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.} 2/5/19: No New Issues.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

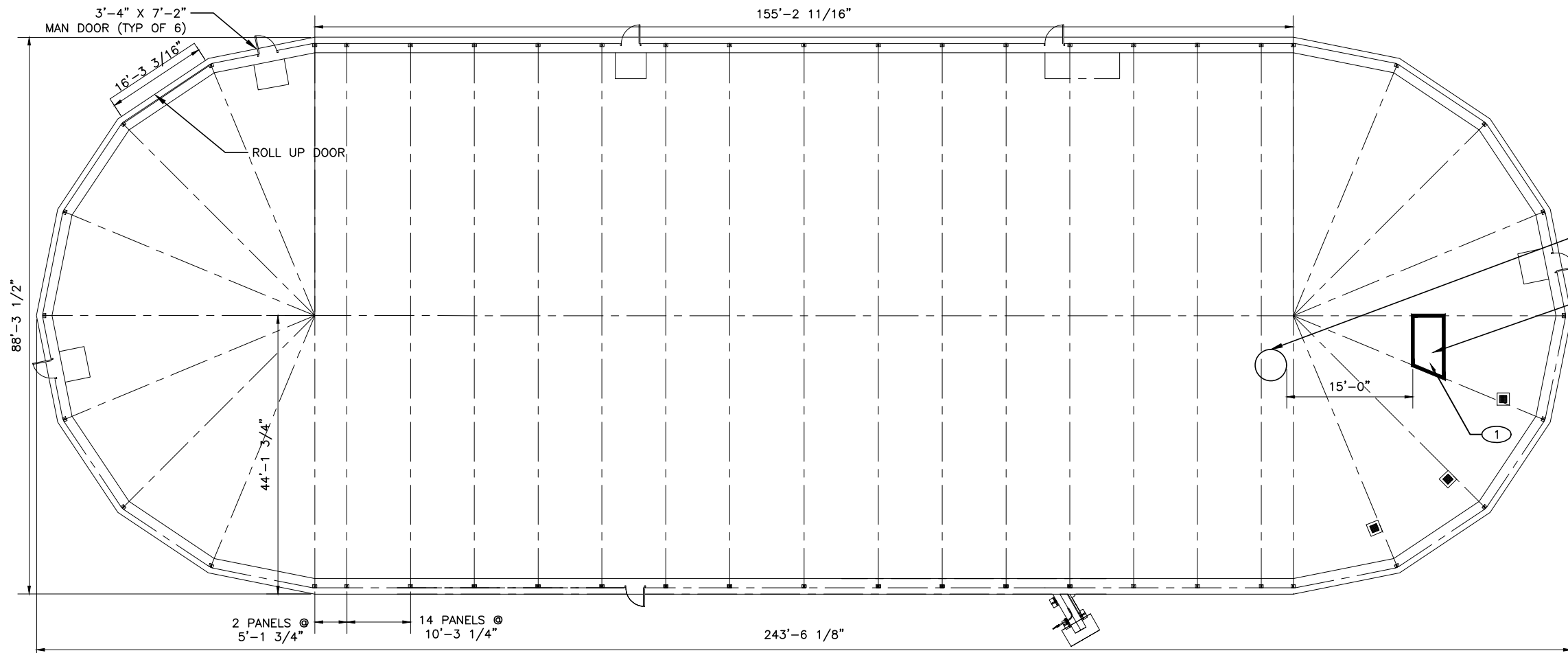
Dome 229 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

Y:\Essential, General & Support Drawings\ES-ESSENTIAL DRAWINGS\TA-54 Drawings\Dome 229 and 230 -NMED Correspondence SK-0001_RP CONEX BOX_020519.dwg, 2/5/27



DOME 230 FLOOR PLAN
SCALE: NONE

GENERAL NOTES:

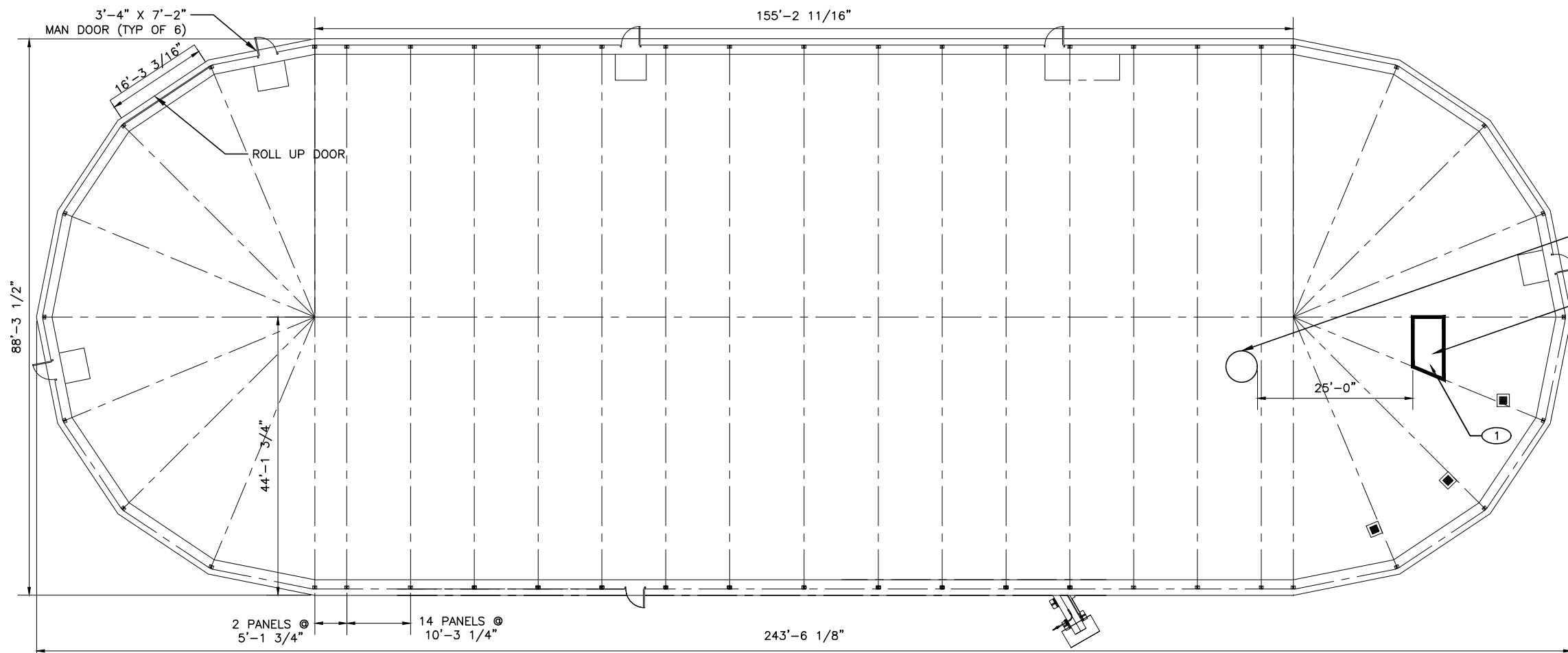
1. DIMENSIONS HAVE NOT BEEN FIELD VERIFIED.

KEYED NOTES:

- 1 APPROXIMATELY 45 SQUARE FEET OF DAMAGED COVER MATERIAL.

NEAREST DRUM LOCATION
APPROXIMATELY 15' AWAY

APPROXIMATELY 45
SQUARE FEET



DOME 229 FLOOR PLAN
SCALE: NONE

NEAREST DRUM LOCATION
APPROXIMATELY 25' AWAY

APPROXIMATELY 45
SQUARE FEET

TA-54 BLDG-229 AND 230		SKETCH		DATE: 02/05/19	
PROJECT I.D. NA DOME 229 AND 230					
SKC-0001 X N3B-TMC-54-0229-XXXX SK-XXXX					
DCF: NA		REVIEWER: NAME		DATE:	
D.C.:					



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

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

To: EventNotification (EXTERNAL) <EventNotification@EM-LA.DOE.GOV>

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

CH-TRU Facility Operations Manager

Cell: (505) 309-1319



ENCLOSURE 2

Dome 230 Additional Information

Defined Area
DA-14-S
(Dome 230)

Mode
DA-14-S
(Dome 230)
WARM STANDBY

54-230

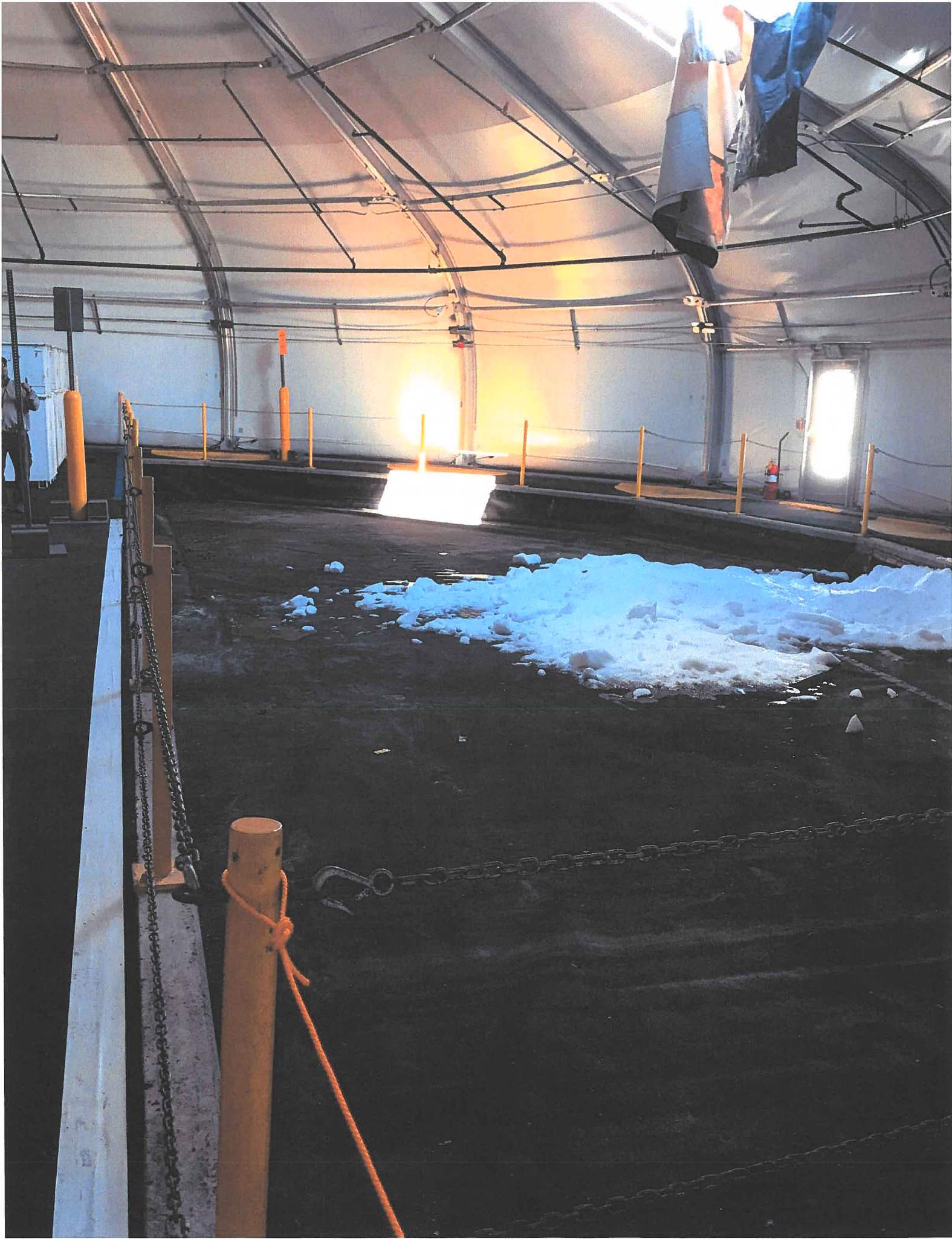
Sign 1 of 1

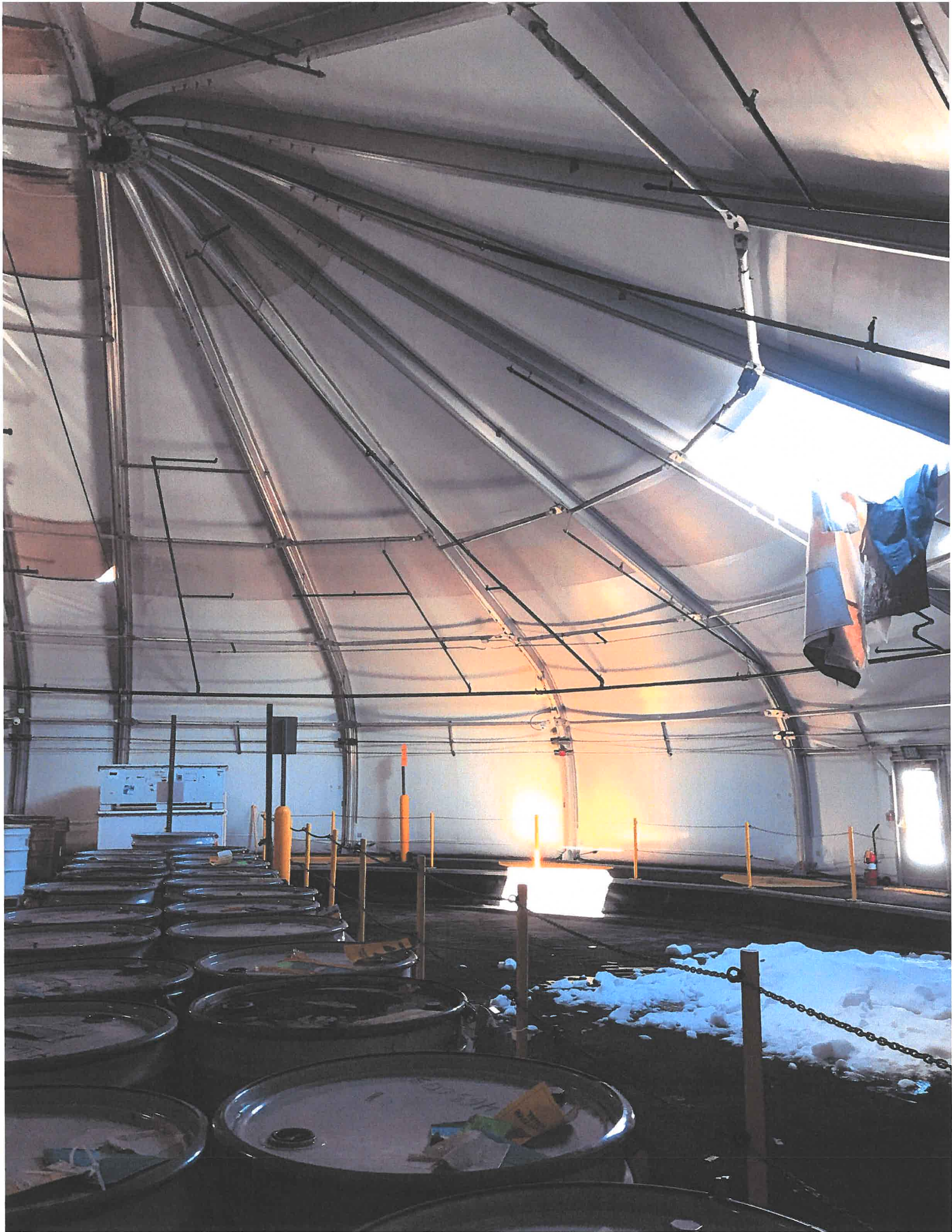
LPS BONDING AREA
NO STORAGE
ALLOWED WITHIN
38 IN

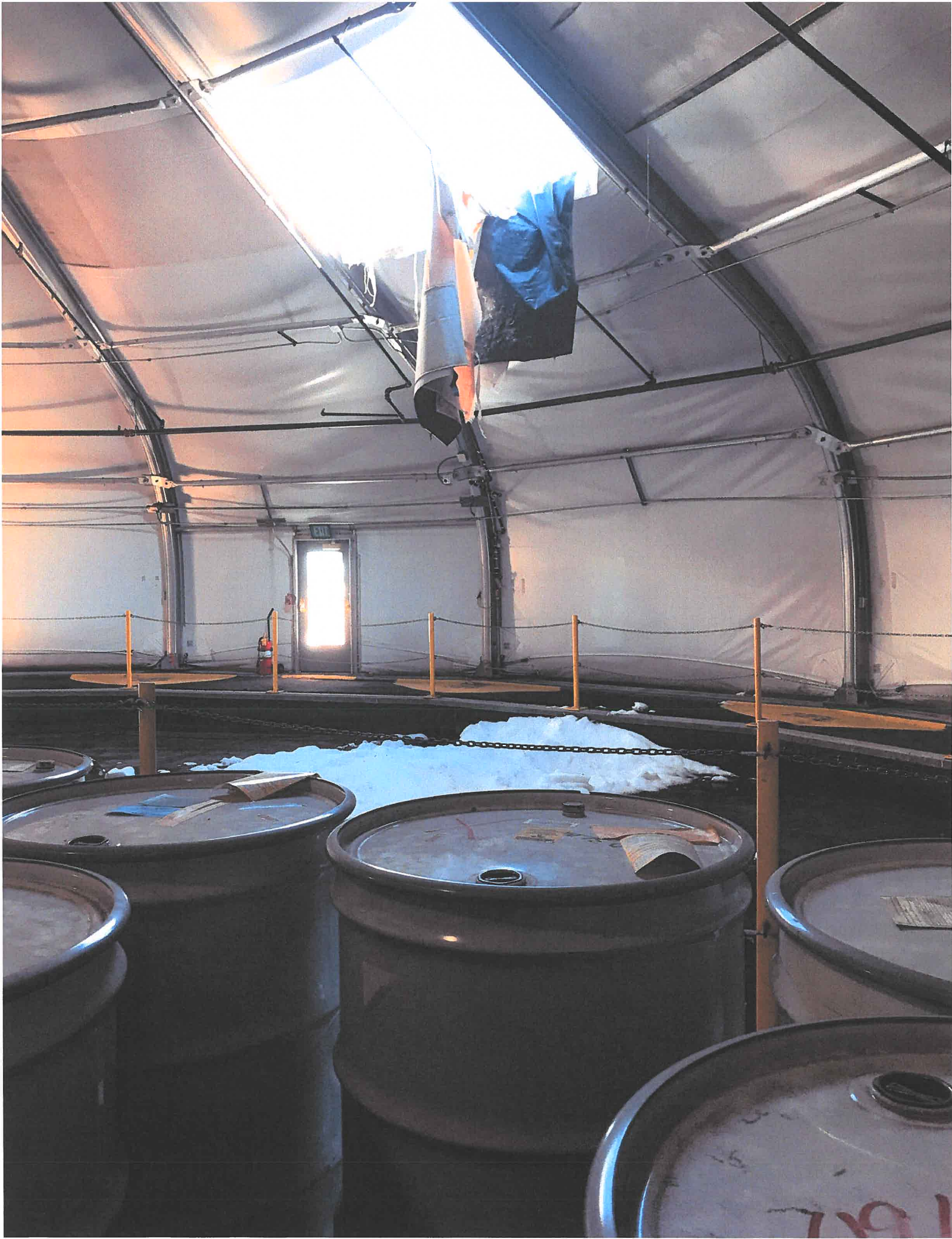
WARNING
PERSONNEL SHOULD NOT TOUCH
MATERIALS, EQUIPMENT AND OTHER
OBJECTS IN THIS AREA
EXPOSURE TO RADIATION IS POSSIBLE
IF PRECAUTIONS ARE NOT TAKEN

CAUTION
RADIATION AREA
Personnel should not enter
this area without proper
protection

HAZARDOUS WASTE
STORAGE AREA
UNAUTHORIZED PERSONS
KEEP OUT
PELIGRO
ÁREA DE ALMACENAMIENTO DE
DESECHADOS PELIGROSOS
PERSONAS NO AUTORIZADAS
MANTÉNGASE AFUERA

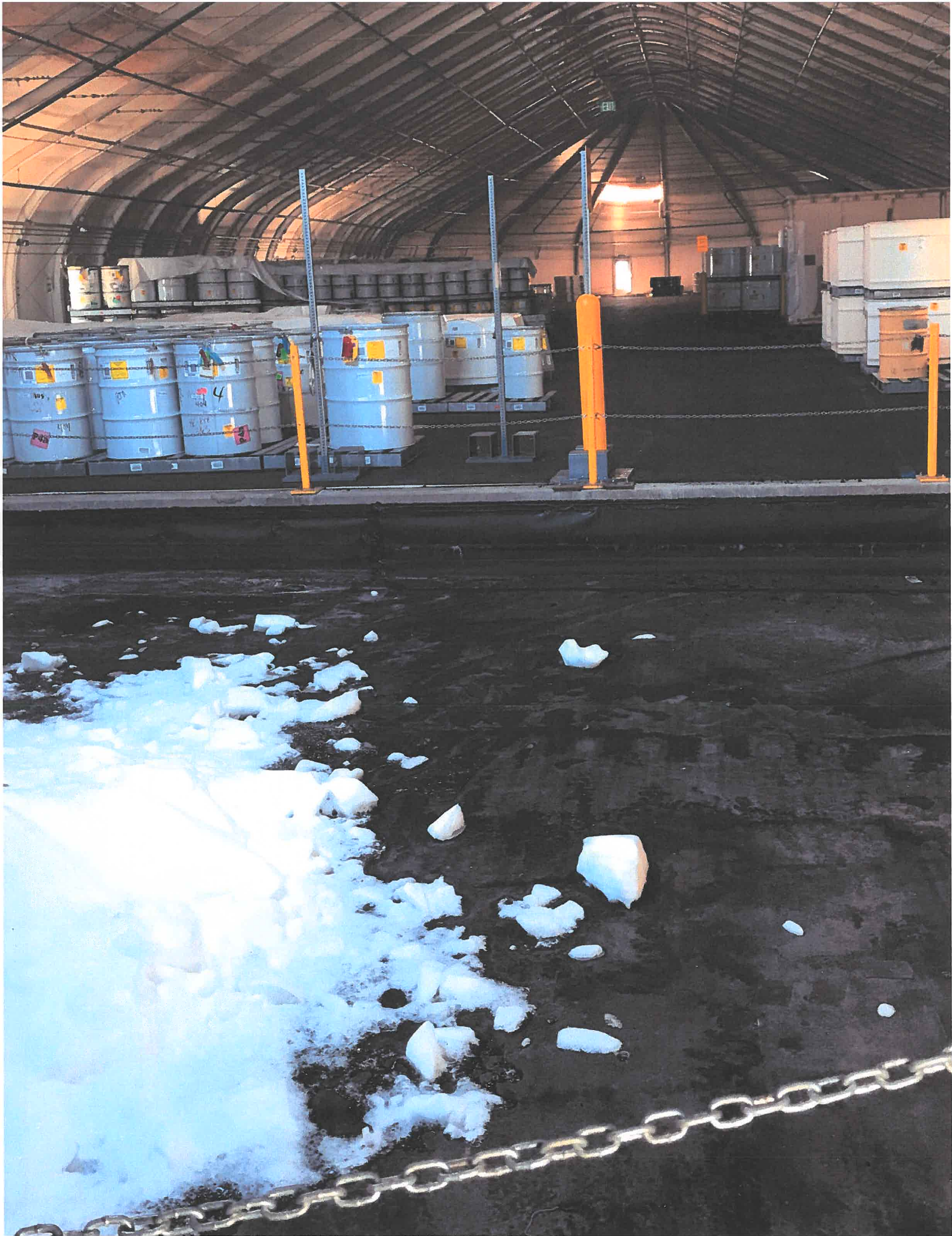


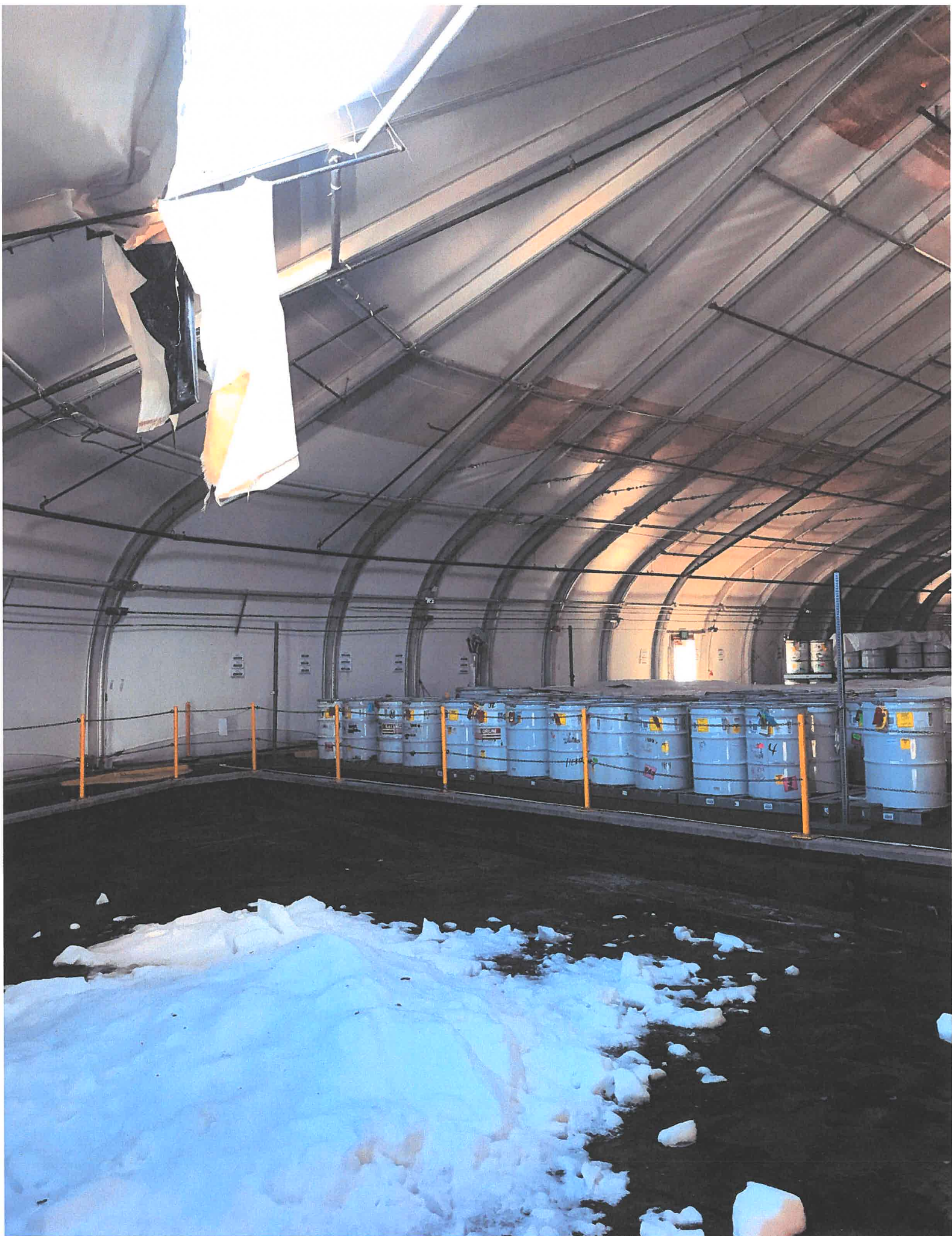




ON-DE DRUMS
DO NOT MOVE OUT OF
BOAE 230
WITHOUT SOW APPROVAL











Anti-Stat / Fire Retardant
Passes NFPA 701-04 Test 1

29284
0-15-14





HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: TA 54 – 230 Pad 9 CSU		2 Site ID #: 1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		3 START DATE: 1-7-19		4 END DATE: 1-13-19	
5 <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
6 NO UNIT USE	No waste stored	NA							
7 NO WASTE HANDLING	No waste handled (see instructions)	OK							
All TSDs									
8 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	
10 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	OK							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2019-08-08	ECI-9-19						
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	NA 2019-02-02 OK 2019-02-02							
16 (UN)LOADING AREA	No spills or deterioration	OK							
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	OK							
Container Storage Units and/or Tanks (see instructions)									
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly	AR 2019-08-08	ECI-9-19	AR 2019-01					
19 LABELS	Proper with start date, present & legible	AR 2019-03-04 AR 2019-04-05 AR 2019-05-06 AR 2019-06-07	ECI-9-19						
20 COMPATIBILITY	Separated according to compatibility	OK							
21 INTEGRITY	No leakage, corrosion, or damage	OK							
22 AISLE SPACE/STACKING	Appropriateness and adequacy	OK							

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

WORKING COPY

Z# 114188

INITIAL EC

DATE 1-7-19

1-31-19

COPY

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 - 230 Pad 9 CSU	Site ID #:1987	START DATE: 1-7-19	END DATE: 1-13-19
------------------------------------	----------------	-----------------------	----------------------

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	OK						
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE	1-7-19						
³⁰ TIME	1639						
³¹ INSPECTOR(S)	Cheryl G. de - 09						

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-2019-02 (Done maintenance 1-7-19) Right above Sump ~~mult.~~ ^{beam} cross ~~beam~~ ^{beams} brackets are bent and one cross beam bracket is broken due to heavy snow. 1-7-19

AR-2019-03 (Item 18) (1-7-19) located in Col 12 and 14 SW 8 LA00000070031 has water on lid and 1-8-19 water is dripping on it. Please correct. Field closed 1-8-19 water removed from lid and covered with fire retardant. 1-7-19

AR-2019-04 (Item 19) (1-7-19) Col 40 L2 R7 Haz waste 55 gal drum # LA00000063833 is has a damage RAD to Active sticker plus replace. Field closed 1-8-19 and a new Radioactive sticker placed on drum. 1-7-19

AR-2019-05 (Item 19) (1-7-19) Col 44 L2 R5 Haz waste drum 55 gal drum # LA00000068954 and Col 44 L2 R7 55 gal drum # W839332 are both missing the Radioactive sticker. Field closed 1-8-19 both drums have new Radioactive sticker placed on them. 1-7-19

AR-2019-06 (Item 19) (1-7-19) Col 48 L1 R1 Drum # 53834 Haz waste drum and Col 48 L1 R9 Drum # S65297 1-7-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

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

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure					<i>aw</i>		
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE						01/04/19		
³⁰ TIME						0940		
³¹ INSPECTOR(S)						Russell Truitt		

COPY

1-9-19
SC

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.} *output AR 2019-01 (Item #18) [01/04/19] Located on E10 + 12 saw on lids of containers. SC 1-9-19
field closed 1-9-19 water removed Snow removed*

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

NRC 2019-01 (Dome maintenance) (1-7-19) right above sump there is a section of dome fabric is torn, also most of the sump three tears on dome fabric please evaluate and repair. NEC 1-7-19

Both are missing Radioactive sticker Please replace. Field closed 1-8-19 both drums have new Radioactive stickers on them. EC.

AR 2019-06 (Item #19) (1-7-19) Col 66 L1 R2 Drum w 820051 and Col 68 L1 R2 Drum #1 w 820054 and Col 68 L1 R2 Drum w 816848 both are missing Radioactive sticker. Field closed 1-8-19 all three drums have new Radioactive stickers. EC.

AR 2019-07 (Item #2) (1-7-19) spill kit is missing the T71 it is to be replaced next to Door G please account. Field closed 1-8-19 was inventory and SAT. EC.

AR 2019-08 (Dome maintenance) (1-7-19) all the personal exit door doors except for Door G and H block by snow. Field closed 1-8-19 All exit door snow has been removed and can be open. EC.

1-9-19 Due to paper work not being update from last week AR 2019-01 Item #18 01/04/19 was not inspected on 1-7-19 but was inspected on 1-9-19 water on fire retardant plastic. 08/6 EC.

Part III- Comments

33.
NRC 2019-01 (Dome maintenance) (1-7-19) right above sump there is a section of dome fabric that is torn, also most of the sump there are three tears on dome fabric please evaluate and repair. ✓

NRC 2019-02 (Item #15) (1-7-19) There is snow inside the sump approx 5 approx 2 pallets in width and approx 1 length and liquid. This is due to tear in fabric. ✓

Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-04			

Dome 230 Open NRC's

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-02			

Monday, January 7, 2019

#Name?

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



- 0800 Assume DCO Duties + remain in staffing condition 2.
0840 Entering AOP ~~2020~~ 20202 loss of electronic badge readers.
0906 MS#5 radio check SAT.
0909 MS#6 radio check SAT.
0910 Snow removal taking place in Area G+L.
0923 Ops CR personnel located @ 54-242 next to east gate, to let personnel out of area G.
1016 Evacuation alarm testing is being performed in area G+L.
1025 Permission granted by SOM to fill dewars in Dome 2B3.
1118 Evacuation alarm testing is complete, in area G+L.
1129 Permission granted to fill dewars @ HENL2.
1337 RP tour @ Area G with (JGB)
1358 IT fixed APACS Exited AOP-20202. SOM notified
1455 Informed by SOM to notify Nuc ops to do RCRA in Dome 229+230
1505 Area L gate locked by Heavy equipment operator.
1518 Airmet sampling team replaced pump in CRA-7
1520 Domes 229 + 230 needs to be roped off per SOM
1529 Permission granted to JG+IT to enter Bldg 325 to check fiber optics
1602 Area G + L turnstiles locked.
1615 Area G main gate locked.
1732 No further activities

COPY

[Signature]

01/07/19

SIGNATURE _____
READ AND UNDERSTOOD _____DATE _____ 20
DATE _____ 20

1335 Entry for 07-19 1455 Due to heavy snow at Domes 229 and 230 mult. cross member brackets are bent. At Dome 230 one cross member bracket is ^{broken} broken and a section of the dome fabric is completely torn off. Due to the tear snow has fallen into the sunf

1612 CPS weekly completed.

1657 Area G South turn style, Area L vehicle gate and Area L turn style air lock and Area G vehicle gate lock.

1703 late entry for 1614 dom (JG) review and S, no weekly SE, 4.4.1, 4.4.1.2 4.2.2.2, 4.2.2.1 and 4.2.2.3

1711 re Secured

No further entries for this Page

COPY

COPY

SIGNATURE _____
READ AND UNDERSTOOD

DATE _____ 20
DATE _____ 20

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: TA 54 – 230 Pad 9 CSU		2 Site ID #:1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		3 START DATE: 12/31/18		4 END DATE: 01/04/19	
5 <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
6 NO UNIT USE	No waste stored		Holiday			NA			
7 NO WASTE HANDLING	No waste handled (see instructions)					OK			
All TSDs									
8 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	
10 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					OK			
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition					OK			
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			
16 (UN)LOADING AREA	No spills or deterioration					OK			
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage					OK			
Container Storage Units and/or Tanks (see instructions)									
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly					OK 12/20/18-01			
19 LABELS	Proper with start date, present & legible					OK			
20 COMPATIBILITY	Separated according to compatibility					OK			
21 INTEGRITY	No leakage, corrosion, or damage					OK			
22 AISLE SPACE/STACKING	Appropriateness and adequacy					OK			

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

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

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure					<i>aw</i>		
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
	²⁹ DATE					01/06/19		
	³⁰ TIME					0940		
	³¹ INSPECTOR(S)					Russell Trujillo		

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. *01/04/19 AR2019-01 (Item #18) [01/04/19] Located on E10 + 12 saw on lids of containers.*

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-04			

Friday, January 4, 2019

#Name?

Dome 230 Open NRC's

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-02			

Friday, January 4, 2019

#Name?

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: TA 54 - 230 Pad 9 CSU		2 Site ID #: 1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		3 START DATE: 1-7-19		4 END DATE: 1-13-19	
5 <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
6 NO UNIT USE	No waste stored	NA							
7 NO WASTE HANDLING	No waste handled (see instructions)	OK							
All TSDs									
8 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	
10 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	OK							
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition	AR 2019-08-21-19							
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	NEC 2019-02-01-19 OK 2019-01-31-19							
16 (UN)LOADING AREA	No spills or deterioration	OK							
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage	OK							
Container Storage Units and/or Tanks (see instructions)									
18 COVERS/LIDS OF CONTAINERS	Closed and secured properly	AR 2019-08-21-19	AR 2019-01-01-19						
19 LABELS	Proper with start date, present & legible	AR 2019-03-01-19 AR 2019-04-05-19 AR 2019-05-01-19 AR 2019-06-07-19							
20 COMPATIBILITY	Separated according to compatibility	OK							
21 INTEGRITY	No leakage, corrosion, or damage	OK							
22 AISLE SPACE/STACKING	Appropriateness and adequacy	OK							

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

WORKING COPY

Z# 114188

INITIAL EC

DATE 1-7-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 - 230 Pad 9 CSU	Site ID #:1987	START DATE: 1-7-19	END DATE: 1-13-19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	OK						
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE	1-7-19						
³⁰ TIME	1639						
³¹ INSPECTOR(S)	Cheryl G. G. - 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.

32. AR-2019-02 (Done maintenance 1-7-19) Right above sump multi. cross beam brackets are bent and one cross beam bracket is broken due to heavy snow. EC 1-9-19

AR-2019-03 (Item 18) (1-7-19) located in Col 12 and 14 SW 8 LA00000070031 has water on lid and water is dripping on it. Please correct. Field closed 1-8-19 water removed from lid and covered with fire retardant. EC 1-7-19

AR 2019-04 (Item 19) (1-7-19) Col 40 L2 R7 Haz waste 55 gal drum # LA00000063833 has a damaged RAD to Active sticker plus replace. Field closed 1-8-19 EC

AR 2019-05 (Item 19) (1-7-19) Col 44 L2 R5 Haz waste drum 55 gal drum # LA00000068954 and Drum # W839332 55 gal drums are both missing the RAD to Active sticker. Field closed 1-8-19 both drums have new radioactive sticker placed on them. EC 1-7-19

AR-2019-06 (Item 19) (1-7-19) Col 48 L1 R1 Drum # 53834 Haz waste drum and Col 48 L1 R9 Drum # 538297 EC 1-9-19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

NRC 2019-01 (Dome maintenance) (1-7-19) right above sump there is a section of dome fabric is torn, also most of the sump there are three tears on dome fabric please evaluate and repair. NSC 1-7-19

Both are missing Radioactive sticker Plans a place. Field closed 1-8-19 both drums have new radioactive stickers on them. EC

AR 2019-06 (Item #19) (1-7-19) Col 66 L1 R2 Drum w 82005 and Col 68 L1 R2 Drum w 82005 and Col 68 L1 R2 Drum w 816848 Field closed 1-8-19 all three drums have new radioactive stickers

AR 2019-07 (Item #2) (1-7-19) spill kit is missing the T21 it is located next to Door G please recount. Spill kit Field closed 1-8-19 was inventory and SAT. EC

AR 2019-08 (Dome maintenance) (1-7-19) all the personnel exit door doors except for Door G and H block by snow. Field closed 1-8-19 All exit door snow has been removed and can be open. EC

1-9-19 Due to paper work not being update from last week AR 2019-01 Item #18 01/04/19 was not inspected on 1-7-19 but was inspected on 1-9-19 water on fire retardant plastic 08/6 EC.

Part III- Comments

33.
NRC 2019-01 (Dome maintenance) (1-7-19) right above sump there is a section of dome fabric that is torn, also most of the sump there are three tears on dome fabric please evaluate and repair ✓

NRC 2019-02 (Item #15) (1-7-19) There is snow inside the sump approx 2 pallets in width and length and no liquid. This is due to tear in fabric. ✓ EC 1-7-19

AR	Description	Date opened	Responsible person	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 lcoated 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
2019-01	(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		
2019-02	(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

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
2018-04 EC 2.13.19			
2019-01-			Sec attached IRF for week of 12/31/18 EC 2.13.19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE: 12/31/18	END DATE: 01/06/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure					aw		
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA

Other TSDs

²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE					01/06/19		
³⁰ TIME					0940		
³¹ INSPECTOR(S)					Russell Tracy		

COPY

1-9-19
EC

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.} ~~update~~ AR 2019-01 (Item #18) [01/04/19] Located on E10 + 12 saw on lids of containers. ✓ SC 1-9-19
 field closed 1-9-19 water removed. Snow removed. Correction on 2-13-19 snow was removed from fire retardant plastic EC.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: TA 54 – 230 Pad 9 CSU		² Site ID #: 1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 01/14/19		⁴ END DATE: 01/20/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored		N/A						
⁷ NO WASTE HANDLING	No waste handled (see instructions)		N/A						
All TSDs									
⁸ 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	
¹⁰ 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		OK						
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition		OK						
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						
¹⁶ (UN)LOADING AREA	No spills or deterioration		OK						
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage		OK						
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly		AR 2/6/19						
¹⁹ LABELS	Proper with start date, present & legible		AR 1/15/19						
²⁰ COMPATIBILITY	Separated according to compatibility		OK						
²¹ INTEGRITY	No leakage, corrosion, or damage		OK						
²² AISLE SPACE/STACKING	Appropriateness and adequacy		OK						

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE: 01/15/19	END DATE: 01/20/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure		at					
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE		01/15/19					
³⁰ TIME		0910					
³¹ INSPECTOR(S)		Russell Targillo					

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.	01/15/19: No New Issues.
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HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 - 230 Pad 9 CSU	Site ID #: 1987	START DATE: 1-7-19	END DATE: 1-13-19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure	OK						
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE	1-7-19						
³⁰ TIME	1639						
³¹ INSPECTOR(S)	Cheryl G. de-19						

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-2019-02 (Done maintenance 1-7-19) Right above sump multi. cross beam brackets are bent and one cross beam bracket is broken due to heavy snow. EC 1-7-19

AR-2019-03 (Item 18) (1-7-19) located in Col 12 and 14 SWBLA0000070031 has water on lid and water is dripping on it. Please correct. Field closed 1-8-19 water removed from lid and covered with fire retardant. EC 1-7-19

AR-2019-04 (Item 19) (1-7-19) Col 40 L2 R7 Haz waste 55 gal drum #LA0000063833 is has a damaged RAD radioactive sticker please replace. Field closed 1-8-19 EC

AR-2019-05 (Item 19) (1-7-19) Col 44 L2 R5 Haz waste drum 55 gal drum #LA0000068954 and Col 44 L2 R9 ST Drum #W839332 55 gal drum is are both missing the RAD radioactive sticker. Field closed 1-8-19 both drums have new radioactive sticker placed on them. EC

AR-2019-06 (Item 19) (1-7-19) Col 48 L1 R1 Drum #53834 Haz waste drum and Col 48 L1 R9 Drum #585297

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

ECI-1-1-19

Part II- Continued.

7A-54-730 PAD9 CSU EC 1-14-19

URC 2019-01 (Dome maintenance) (1-7-19) right above sump there is a section of dome fabric is torn, also west of the sump there are three tears on dome fabric please evaluate and repair. NSC 1-7-19

Both are missing Radioactive sticker Plans replace. Field closed 1-8-19 both drums have new Radioactive stickers on them. EC.

AR 2019-07 (Item #19) (1-7-19) Col 66 L1 R2 Drum w 82005 and Col 68 L1 R2 Drum w 816848 both are missing Radioactive sticker. Field closed 1-8-19 all three drums have new Radioactive stickers. EC.

AR 2019-07 (Item #2) (1-7-19) spill kit is missing the T21 it is located next to Door G please reconst. spill kit. Field closed 1-8-19 was inventory and SAT. EC.

AR 2019-07 (Dome maintenance) (1-7-19) all the personal exit door doors except for Door G and H block by snow. Field closed 1-8-19 All exit door snow has been removed and can be open. EC.

1-9-19 Due to paper work not being update from last week AR 2019-01 Item #18 01/04/19 was not inspected on 1-7-19 but was inspected on 1-9-19 water on fire retardant plastic 08/6 EC.

Part III- Comments

33. NRC 2019-01 (Dome maintenance) (1-7-19) 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 ✓

NRC 2019-02 (Item #15) (1-7-19) There is snow inside the sump approx 2 pallets in width and length and liquid. This is due to tear in fabric. ✓

Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: TA 54 – 230 Pad 9 CSU		² Site ID #: 1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 1-21-19		⁴ END DATE: 1-27-19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored	Holiday		NA					
⁷ NO WASTE HANDLING	No waste handled (see instructions)			OK					
All TSDs									
⁸ 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	
¹⁰ 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			OK					
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition			OK					
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					
¹⁶ (UN)LOADING AREA	No spills or deterioration			OK					
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage			OK					
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly			OK					
¹⁹ LABELS	Proper with start date, present & legible			OK					
²⁰ COMPATIBILITY	Separated according to compatibility			OK					
²¹ INTEGRITY	No leakage, corrosion, or damage			OK					
²² AISLE SPACE/STACKING	Appropriateness and adequacy			OK					

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

Z# 216146

INITIAL RS DATE 01/23/19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE: 1-21-19	END DATE: 1-27-19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure			OK				
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE				1/23/19				
³⁰ TIME				0930				
³¹ INSPECTOR(S)				Russell Trujillo				

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.	1/23/19: No new issues.
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HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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		(Item 15) There is snow inside the sump. Approximately 2 pallets in width and length. No liquid. This is due to tear in fabric.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

1 FACILITY: TA 54 – 230 Pad 9 CSU	2 Site ID #: 1987	TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)	3 START DATE: 01/28/19	4 END DATE: 02/03/19
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5 ☒ Containers ☐ Landfill ☐ Chemical Treatment ☐ Tank ☐ Miscellaneous Unit (OB/OD, Cementation)

PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.

ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
6 NO UNIT USE	No waste stored			NA				
7 NO WASTE HANDLING	No waste handled (see instructions)			OK				

All TSDs

8 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
10 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			OK				
12 SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition			OK				
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				
16 (UN)LOADING AREA	No spills or deterioration			OK				
17 RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage			OK				

Container Storage Units and/or Tanks (see instructions)

18 COVERS/LIDS OF CONTAINERS	Closed and secured properly			OK				
19 LABELS	Proper with start date, present & legible			OK				
20 COMPATIBILITY	Separated according to compatibility			OK				
21 INTEGRITY	No leakage, corrosion, or damage			OK				
22 AISLE SPACE/STACKING	Appropriateness and adequacy			OK				

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

WORKING COPY

Z# 216146

INITIAL ET

DATE 01/30/19

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE: 01/28/19	END DATE: 02/03/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure			OK				
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA

	MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE			01/30/19				
³⁰ TIME			1530				
³¹ INSPECTOR(S)			Russell Tracy				

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.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

¹ FACILITY: TA 54 – 230 Pad 9 CSU		² Site ID #:1987		TREATMENT, STORAGE, OR DISPOSAL UNIT (TSD)		³ START DATE: 2/4/19		⁴ END DATE: 2/10/19	
⁵ <input checked="" type="checkbox"/> Containers <input type="checkbox"/> Landfill <input type="checkbox"/> Chemical Treatment <input type="checkbox"/> Tank <input type="checkbox"/> Miscellaneous Unit (OB/OD, Cementation)									
PART I- Enter condition of the item inspected (i.e. OK, NA [Not Applicable], or AR [Action Required]) in column for day inspected.									
ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN	
⁶ NO UNIT USE	No waste stored				NA	NA	NA		
⁷ NO WASTE HANDLING	No waste handled (see instructions)				OK	NA	NA		
All TSDs									
⁸ 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	
¹⁰ 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				OK				
¹² SPILL/FIRE EQUIPMENT	Present, appropriate, and in proper operating condition				OK				
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	OK	OK		
¹⁶ (UN)LOADING AREA	No spills or deterioration				OK	OK	OK		
¹⁷ RUN-ON/OFF CONTROL	Integrity- no ponding, erosion, or damage				OK	OK	OK		
Container Storage Units and/or Tanks (see instructions)									
¹⁸ COVERS/LIDS OF CONTAINERS	Closed and secured properly				OK	OK	OK		
¹⁹ LABELS	Proper with start date, present & legible				OK	OK	OK		
²⁰ COMPATIBILITY	Separated according to compatibility				OK	OK	OK		
²¹ INTEGRITY	No leakage, corrosion, or damage				OK	OK	OK		
²² AISLE SPACE/STACKING	Appropriateness and adequacy				OK	OK	OK		

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

FACILITY: TA 54 – 230 Pad 9 CSU	Site ID #:1987	START DATE: 2/4/19	END DATE: 2/10/19
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ITEM	INSPECTED FOR:	MON	TUE	WED	THU	FRI	SAT	SUN
²³ PALLETS AND RAISED CONTAINERS	Absence of conditions that could result in failure			<i>[Signature]</i> 2/4/19	<i>[Signature]</i>			
²⁴ TANK SYSTEMS	Discharge controls and fill level and no corrosion or leakage	NA	NA	NA	NA	NA	NA	NA
Other TSDs								
²⁵ SHAFTS/LANDFILL COVERS	Presence and condition of cover	NA	NA	NA	NA	NA	NA	NA
²⁶ OPEN BURNING UNITS	Condition of cover, and no erosion, leakage, or damage	NA	NA	NA	NA	NA	NA	NA
²⁷ OPEN DETONATION UNITS	Unit and vegetation condition and no erosion	NA	NA	NA	NA	NA	NA	NA
²⁸ CEMENTATION UNITS	Structural integrity and condition of equipment and systems	NA	NA	NA	NA	NA	NA	NA
		MON	TUE	WED	THU	FRI	SAT	SUN
²⁹ DATE					2/7/19	2/8/19	2/9/19	
³⁰ TIME					1250	0850	1203	
³¹ INSPECTOR(S)					<i>[Signature]</i> Aguilar	<i>[Signature]</i> Aguilar	<i>[Signature]</i> Aguilar	

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.} 2/7/19: No New Issues.

2/8/19: No New Issues.

2/9/19: No New Issues.

HAZARDOUS WASTE FACILITY INSPECTION RECORD FORM

Part II- Continued.

Part III- Comments

33.

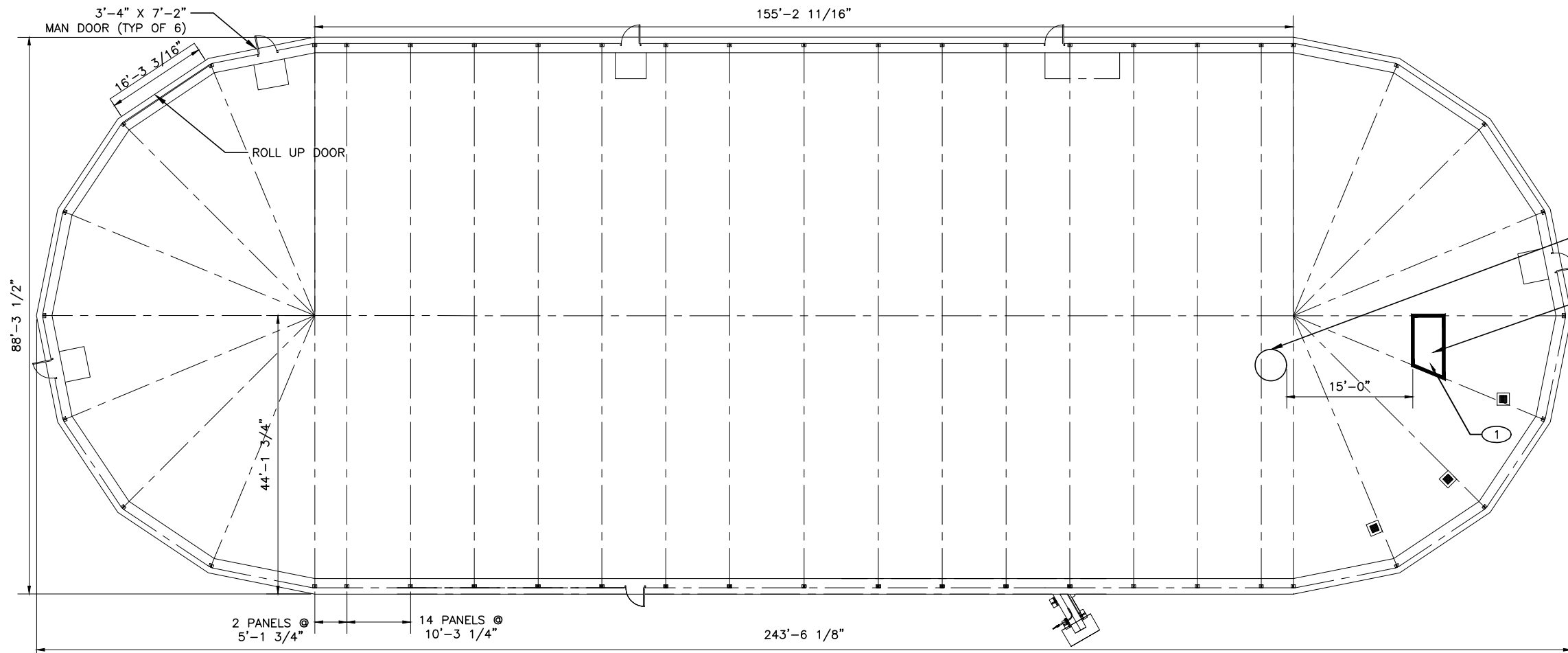
Dome 230 Open AR's

<i>AR</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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

<i>NRC</i>	<i>Date opened</i>	<i>Date Closed</i>	<i>Description</i>
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.

Y:\Essential, General & Support Drawings\ES-ESSENTIAL DRAWINGS\TA-54 Drawings\Dome 229 and 230 -NMED Correspondence SK-0001_RP CONEX BOX_020519.dwg, 2/5/27



DOME 230 FLOOR PLAN
SCALE: NONE

GENERAL NOTES:

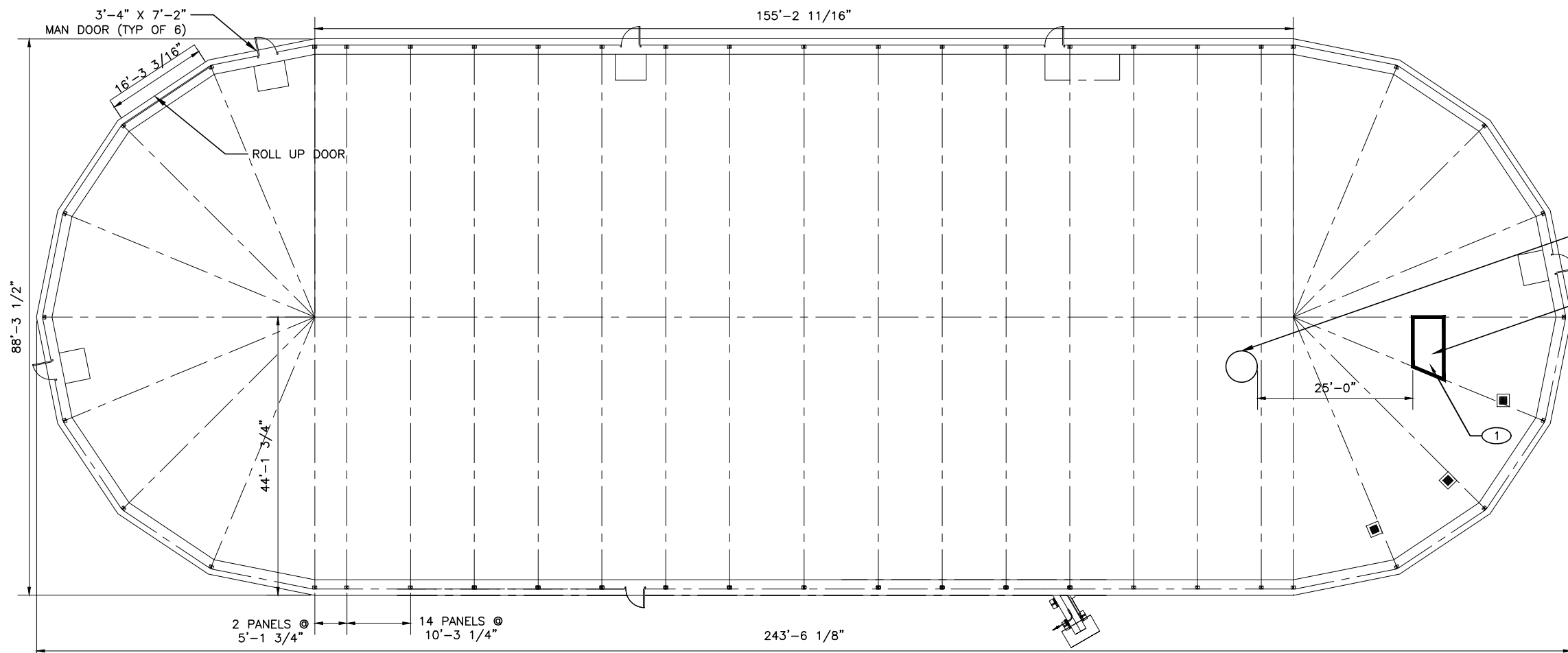
1. DIMENSIONS HAVE NOT BEEN FIELD VERIFIED.

KEYED NOTES:

- 1 APPROXIMATELY 45 SQUARE FEET OF DAMAGED COVER MATERIAL.

NEAREST DRUM LOCATION
APPROXIMATELY 15' AWAY

APPROXIMATELY 45
SQUARE FEET



DOME 229 FLOOR PLAN
SCALE: NONE

NEAREST DRUM LOCATION
APPROXIMATELY 25' AWAY

APPROXIMATELY 45
SQUARE FEET

TA-54 BLDG-229 AND 230		SKETCH		DATE: 02/05/19	
PROJECT I.D. NA DOME 229 AND 230					
SKC-0001 X N3B-TMC-54-0229-XXXX SK-XXXX					
DCF: NA		REVIEWER: NAME		DATE:	
D.C.:					



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

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

To: EventNotification (EXTERNAL) <EventNotification@EM-LA.DOE.GOV>

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

CH-TRU Facility Operations Manager

Cell: (505) 309-1319

