

Hanford Tank Waste Operations & Closure (H2C)
EVENT REPORT FORM

1. Project: West Area Construction 2. Report Date: 08/10/2026
3. Title: TFC-OPS-OPER-C-67 Response at MO655
4. Investigation Report Number (if applicable): EIR-2026-055 5. Revision: 0
6. Responsible Manager: [REDACTED]
7. Event Investigator: [REDACTED]
8. Area/Building/Location: 200W/MO655
9. Date and Approximate Time of Event: Date: 08/05/2026 Time: (military) 0815
10. Associated Action Request (AR) Number: ITDC-AR-2026-2397
11. Occurrence Report Number (if applicable): N/A
12. Event Learning Meeting Held: Yes [] or No [X] Date: N/A Time: (military) N/A

13. Brief Summary of Event: What Happened?

At approximately 0815 hours on 08/05/2026, an American Electric electrician entered a non-permit required confined space at MO-655 to take pictures of their work location. The worker exited the space and reported an ammonia-like odor. There was another American Electric electrician outside the non-permit required confined space in MO-655 when the odor was encountered, but they did not smell the ammonia-like odor.

At 0821 hours, the Central Shift Manager (CSM) initiated response per TFC-OPS-OPER-C-67, *Response to Stronger than Normal Odors*. Respiratory protection was not required or used during the event. Affected workers reported no symptoms and declined medical evaluation.

14. What Should Have Happened?

There should not have been an ammonia-like odor in the confined space below MO655.

15. Key Facts from Investigation:

To summarize the conclusions of the Industrial Hygiene Event Report, IHIR-00144, *TFC-OPS-OPER-C-67 at MO-655* (Attachment 1): When responders arrived at building MO-655, no odor was detected in the accessible areas. The building has a crawl space with poor ventilation where the odor had been reported. Personnel entering the crawl space did not smell an odor, though rodent droppings were present (see photos below).

Industrial Hygiene Technicians (IHT) monitored the area including the crawl space and found no abnormal readings. Although the location is near SY Tank Farm, monitoring results indicated it is unlikely the odor originated from Tank Farm Vapors. The most likely source of the faint ammonia-like odor was rodent urine in the poorly ventilated crawl space.

Communication regarding the recent discovery of rodent droppings in the crawl space is being shared across the Industrial Hygiene (IH) department. Response teams have been reminded to stay vigilant and adaptable during investigations, and to pause and reassess whenever they encounter unexpected conditions. At this time, no additional actions are required beyond reinforcing these practices and maintaining ongoing awareness.

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16. Impact to Facility: *(Caused by the event or a description of known consequences):*

Access to MO655, was restricted until Industrial Hygiene completed C-67 response actions.

17. Problem Statement *(Who, What, Where, When, and Consequence/Impact):* N/A

18. Event Causal Matrix Summary: N/A

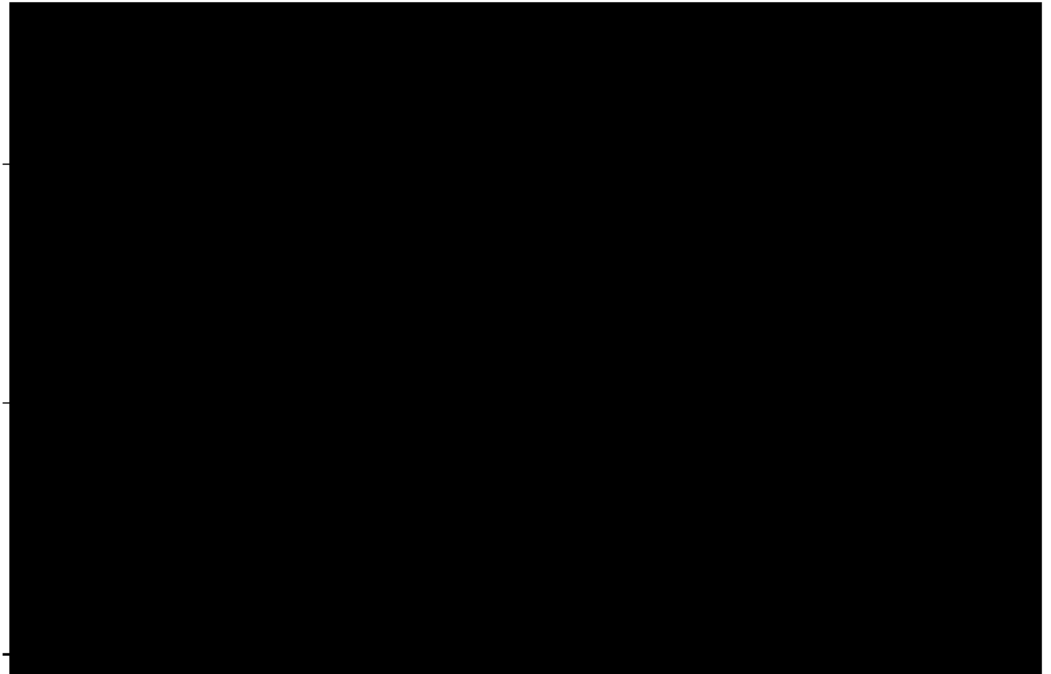
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26. Signatures

Prepared By: *(Event Investigator)*

Responsible Manager Approval:

CAS Manager Approval:



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Attachment 1: Industrial Hygiene Event Investigation Report (IHIR) #IHIR-00144, "TFC-OPS-OPER-C-67 at MO-655"

INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR)		
Event Title: TFC-OPS-OPER-C-67 at MO-655		IHIR Number: IHIR-00144
		IHEI Number: N/A
Date: 8/5/2026	Time: 0815	Location: MO-655
Event Summary and Timeline: At approximately 0815 on 8/5/2026, an American Electric worker entered a non-permit required confined space at MO-655 to take pictures of their work location. The worker exited the space and reported an ammonia-like smell. The worker reported no symptoms and declined medical. Field Response Timeline: 0821: CSM notified by West Area ADM that American Electric FWS reported stronger than normal odors inside MO-655. 2 Electricians were in the MO-655, and one electrician was working in a non-permit confined space taking pictures underneath floor tiles and smelled an ammonia odor. Work was placed in a safe configuration and both workers had no symptoms and declined medical surveillance. Initiated C-67 Odor Response for stronger than normal odors reported at MO-655. SOEN sent. 0830: PO IH and PO IH Manager arrived at CSO 0838: PO IH confirmed mixing height is 140 feet. 0849: CSM notified DOE FR for C-67 Response 0850: PFS IH Manager notified of C-67 event. 0851: PFS IH notified by PFS IH Manager of C-67 event. 0904: PFS IH arrives at CSO 0855: Initiated EIR-2026-055 "C-67 Response at MO655". SOEN sent. 0857: MO-655 posted "Restricted Access" 1039: Odor Response Cards completed for C-67 Response 1041: C-67 Attachment A Response Plan completed. Dispatched IHT to implement Attachment A. 1043: PFS IH and IHT head to MO-655 1055: PFS IH arrives at MO-655. PFS IH discusses the odor with the FWS and it is described as a faint ammonia smell, saying the worker compared the odor to cat urine. 1101: IHT arrives at MO-655. FWS briefs IH and IHT on non-permit required confined space entry. 1102: IHT begins monitoring of the general access area of MO-655 1105: IHT and IH enters the non-permit required confined space 1111: IHT exits the non-permit required confined space 1114: PFS IH exits the non-permit required confined space 1116: IHT begins monitoring of the perimeter of MO-655 1119: IHT reports to CSM that sweeps of MO-655 are complete and all readings were below background. FWS, IHT, and PFS IH leave MO-655. 1203: IHT reports to CSM post use function test was satisfactory. All Response plan actions complete per C-67 and Normal Access was restored to MO-655. Notified West Area ADM to down post Restricted Access sign. Notified DOE FR via voicemail. SOEN sent.		
Sampling/Monitoring Results: Outside MO-655: - Ammonia (NH3) – Less Than Detectable (< 1.0 ppm) - Volatile Organic Compounds (VOCs, 10.6 eV PID) – Less Than Detectable (< 0.01 ppm) Inside MO-655 General Access Area: - Ammonia (NH3) – Less Than Detectable (< 1.0 ppm) - Volatile Organic Compounds (VOCs, 10.6 eV PID) – Less Than Detectable (< 0.01 ppm) Inside MO-655 Below the Floor: - Ammonia (NH3) – Less Than Detectable (< 1.0 ppm) - Volatile Organic Compounds (VOCs, 10.6 eV PID) – Less Than Detectable (< 0.01 ppm) DRI Passed post-use function test at 1203 on 8/5/2026		
SWIHD References: 26-05284: TFC-OPS-OPER-C-67 Field Response at MO-655		

INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Additional Information:

Respiratory protection was not prescribed for the initiating event. Accordingly, at the time of the initiating event, the affected personnel were not wearing respiratory protection equipment. Respiratory protection equipment was not required, nor worn, for response actions.

Hanford Meteorological Station Observations at 0800 8/5/2026:

- Barometric Pressure: 29.19 inHg, stagnant
- Wind Speed and Direction: 2 mph NNW
- Ambient Temperature: 68 °F
- Mixing Height: 140 meters

Event Response:

Upon arrival at the event scene, no odor was observed by personnel in the perimeter of MO-655 or the general access areas inside MO-655. The ventilation in MO-655 was operational, however, the area where the odor was reported was a separate air space. MO-655 is a prefabricated building with a concrete slab and below floor crawl space (approximately 3 feet high, 14 feet wide, and 30 feet long) with electrical and communication wires and conduit. The area accessed is a non-permit required confined space with two access hatchways, one on either end of the trailer. There is no ventilation, other than natural ventilation, of the crawl space where the odor was observed which creates a stagnant environment. There are no water or sewer utilities for the building. No chemicals were being used in the space at the time of the reported odor. Personnel that entered the space where the odor was reported did not observe a present odor. Rodent droppings were observed throughout the crawl space, but there were no signs of any obvious rodent nests or infestation.

The IHT monitored the perimeter of MO-655, the general access areas, and the crawl space. The IHT entered the crawl space approximately 25 feet from the west access hatch where the odor was reported. Upon reaching the reported odor location, the IHT indicated no readings were above detectable levels and no abnormal odors were present. The event response Direct Reading Instrument (DRI) results were less than detectable for all agents monitored (ammonia and volatile organic compounds (VOC)). Apparent detection of odors with olfactory sense but not DRI further supports that chemical concentrations were much lower than applicable Occupational Exposure Limits (OELs).

Exterior of MO-655



INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Additional Information:

Interior of MO-655 and Access Hatchway



Accumulation of Rodent Droppings in the Crawl Space



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INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Additional Information:



Recommendations/Conclusions:

Although the location of the reported odor is close in proximity to SY Tank Farm, it is not likely that the reported odor was due to a tank vapor event based on the findings of the work location. It is more likely that the faint ammonia-like odor smelled was due to rodent urine within the crawl space and lack of ventilation. DRI monitoring performed during response actions did not indicate further action is necessary to protect worker safety and health. As a result, the area was released from restricted access and work was allowed to continue. If the odor is recurring during future work activities, cleaning of the space to eliminate the biological contamination could be completed, although not required to proceed.

Others:

N/A

Associated Documents:

iCAS Number: N/A

EIR Number: EIR-2026-055

Industrial Hygienist:

[Redacted Name]

Print First and Last Name

Industrial Hygiene Level 3 Manager

[Redacted Name]

Print First and Last Name

Industrial Hygiene Level 2 Manager:

[Redacted Name]

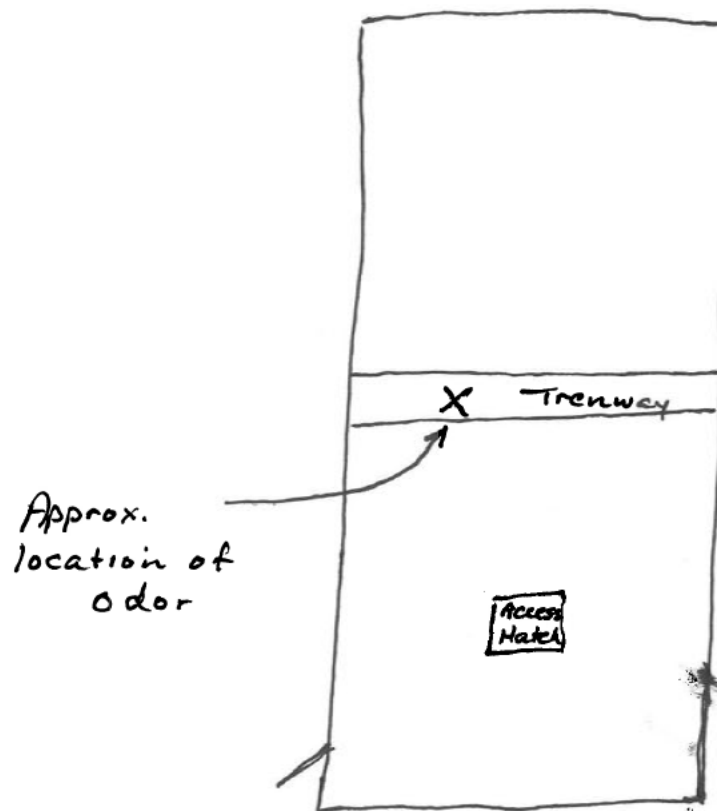
Print First and Last Name

ODOR/VAPOR RESPONSE CARD

Instructions:

1. Notify Immediate Supervisor.
2. Contact Central Shift Manager (CSM), at (509) 373-2689.
3. Complete both pages of this form and include as many details as possible, including:
 - a. Approximate location, see map at right;
 - b. Wind direction, speed and description, such as stable or gusty wind;
 - c. Environmental conditions, such as hot, cold, windy, rainy;
 - d. Other work or contractors in the area;
 - e. Anything else you think is relevant.
4. Provide the completed card to your Supervisor*, Industrial Hygiene*, Union Safety Representative* or the CSM.

* If received by Supervisor, IH, or Union Safety Representative, the Supervisor/IH/ Union-SR will ensure card it is provided to the CSM.



ODOR/VAPOR RESPONSE CARD

1. Complete below information and map (Page 1).

- Date and time of event: 8/5/26 0800
- Check Applicable:
 - ☒ Odor
 - ☐ Ammonia Alarm (6 ppm)
 - ☐ Ammonia Alarm (12 ppm)
 - ☐ Alarm (other - describe): _____
- Your name and the work you were performing:
Taking photos of trenway and covers
- Other Work Underway? Describe:
No
- Location of event (mark area on map and wind direction):
M0-655
- Name(s) of others in or near the affected area:

- Was Industrial Hygiene present, who?
No
- Describe the odor:
 - ☐ Sweet
 - ☐ Sour
 - ☐ Smoky
 - ☐ Septic/Sewer
 - ☐ Musty
 - ☐ Rotten
 - ☐ Metallic
 - ☐ Onion
 - ☐ Earthy
 - ☒ Ammonia
 - ☐ Citrus
 - ☐ Solvent
 - ☐ Other (describe): _____
- Is source known/likely? Describe:
Possibly from trenway or adjacent farm
- Your symptoms? ☒ None
 - ☐ Headache
 - ☐ Dizziness
 - ☐ Nausea
 - ☐ Cough
 - ☐ Fatigue
 - ☐ Weakness
 - ☐ Sore Throat
 - ☐ Difficulty Breathing
 - ☐ Eye Irritation
 - ☐ Rash
 - ☐ Itch
 - ☐ Tingling
 - ☐ Numbness
 - ☐ Taste
 - ☐ Other (describe): _____

2. Provide this completed card (Page 1 & 2) to Supervisor, Industrial Hygiene, your Union Safety Representative or the CSM.
If received by Supervisor/IH/U-SR, Supervisor/IH/U-SR will ensure card is provided to the CSM.

ODOR/VAPOR RESPONSE CARD

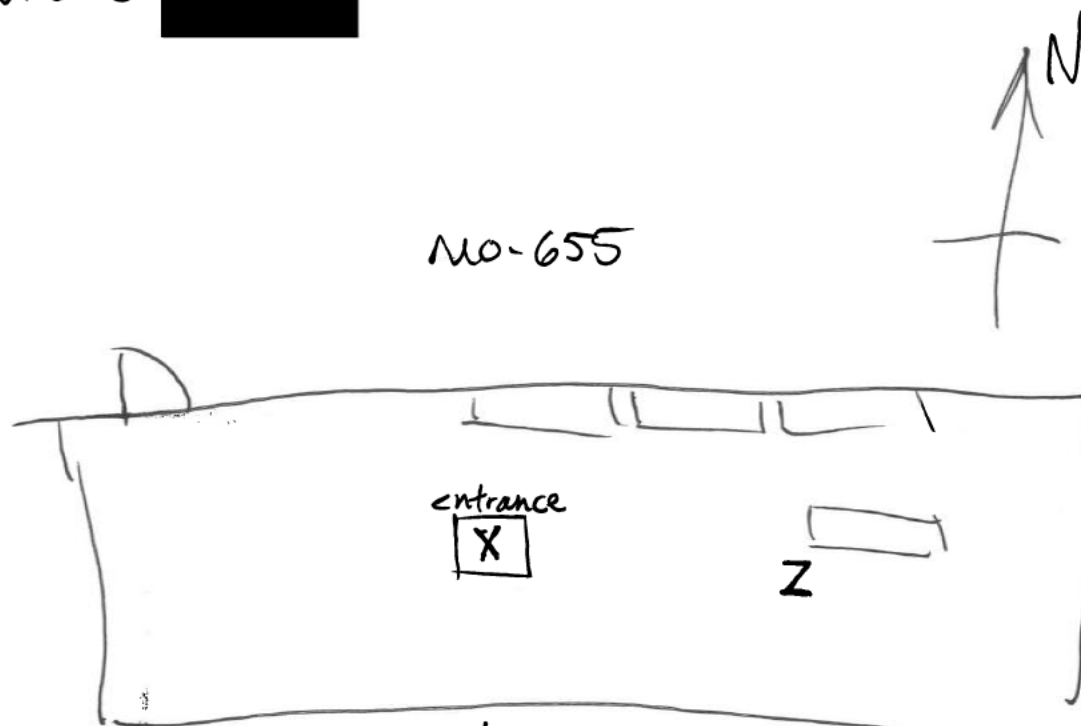
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I didn't smell the odor, I was in the vicinity of the NPCCS entrance and not down inside where [REDACTED] was.

MO-655



X = my location at entrance (standing up)
Z = [REDACTED] (approx.) location inside NPCCS.

ODOR/VAPOR RESPONSE CARD

1. Complete below information and map (Page 1).

- Date and time of event: 8/5/26 am
- Check Applicable:
N/A ☐ Odor ☐ Ammonia Alarm (6 ppm) ☐ Ammonia Alarm (12 ppm) ☐ Alarm (other - describe): _____
- Your name and the work you were performing:
helping [redacted] w/ inspections in MO-655
- Other work underway? Describe: N/A
- Location of event (mark area on map and wind direction):
Did not detect odor
- Name(s) of others in or near the affected area:
[redacted]
- Was Industrial Hygiene present, who?
No.
- Describe the odor:
☐ Sweet ☐ Sour ☐ Smoky ☐ Septic/Sewer ☐ Musty ☐ Rotten
☐ Metallic ☐ Onion ☐ Earthy ☐ Ammonia ☐ Citrus ☐ Solvent
☒ Other (describe): See Page 1
- Is source known/likely? Describe:
N/A See Page 1
- Your symptoms? ☒ None
☐ Headache ☐ Dizziness ☐ Nausea ☐ Cough ☐ Fatigue
☐ Weakness ☐ Sore Throat ☐ Difficulty Breathing ☐ Eye Irritation ☐ Rash
☐ Itch ☐ Tingling ☐ Numbness ☐ Taste
☐ Other (describe): _____

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