

Hanford Tank Waste Operations & Closure
EVENT REPORT FORM

1. Project: West Area Operations 2. Report Date: 01/12/2026
3. Investigation Title: C-67 Response at 272-WA
4. Investigation Report Number: EIR-2026-018
5. Responsible Manager: [REDACTED]
6. Event Investigator: [REDACTED]
7. Area / Building / Location: 200W/272-WA/Women's Locker Room
8. Date and Approximate Time of Event: Date: 01/05/2026 Time (military): 0845 hours
9. Associated Action Request (AR) Number: ITDC-AR-2026-0774
10. Associated Occurrence Report Number (if applicable): N/A
11. Event Learning Meeting Held: Yes [] or No [X] Date: N/A Time (military): N/A

12. Brief Summary of Event: What Happened?

At approximately 0845 on 01/05/2026, an H2C Production Control Integration Specialist reported smelling a stronger than normal "Propane/Gas-like" odor in the hallway outside the 272-WA women's restroom and locker room. The worker did not report experiencing symptoms and declined precautionary medical surveillance by the Site Occupational Medical Contractor (SOMC).

To summarize the conclusions of Industrial Hygiene Event Investigation Report (IHIR), *IHIR-00130 TFC-OPS-OPER-C-67 Women's Locker Room of 272WA*; investigation and Direct Reading Instrument (DRI) monitoring could not readily identify the source of the reported odors. The TFC-OPS-OPER-C-67 investigation confirmed the 272-WA building did not contain a gas line and there were no propane tanks or bottles within the representative area that could have contributed to the odor source. While other potential odor sources were noted during the investigation (e.g., known plumbing abnormalities, infrequent fixture use, and prior sewage issues of the facility), they are unlikely to contribute odors consistent with the "Propane/Gas-like" descriptor. [Note: Refer to *IHIR-00130* for further detail/supporting evidence regarding these conclusions].

DRI monitoring performed during TFC-OPS-OPER-C-67 response actions indicated detectable concentrations were less than anticipated background levels and below established action levels; indicating further action was not necessary to protect workers' safety and health from an Occupational Exposure Limit (OEL) standpoint. As a result, the area was released from restricted access.

13. What Should Have Happened?

"Propane/Gas-like" odors should not have been present in the 272-WA facility.

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

No impacts to facility safety status, operational capabilities, or facility reliability occurred.

Access to the 272-WA women's locker room and restroom was restricted for approximately 1 1/2 hours until TFC-OPS-OPER-C-67 response actions were complete.

15. Problem Statements (Who, What, Where, When, Consequence/Impact):

At approximately 0845 hours on 01/05/2026 an H2C Production Control Integration Specialist reported smelling a stronger than normal "Propane/Gas-like" odor in the hallway near the 272-WA women's restroom; resulting in access restriction.

16. Facts/Timeline:	17. Issues/Gaps	18. Causes (Why?) (Include Cause Code)	19. Safe Stable/Immediate Actions	20. Extent of Condition	21. Short Term Action(s)	22. Corrective Action(s)
<u>01/05/2026</u> [0845 hours] Fact: Worker reports a "Propane/Gas-like" odor in hallway near 272-WA women's restroom. No symptoms were reported.	N/A	N/A	The West Area Operations Area Dayshift Manager (ADM), maintenance manager, and Industrial Hygienist were notified of the reported odor.	N/A	N/A	N/A
<u>01/05/2026</u> [0853 hours] Fact: CSM notification of reported odor and TFC-OPS-OPER-C-67 Entry	N/A	N/A	The West Area Operations ADM notified the CSM of the reported odors at 0853 hours. CSM entered TFC-OPS-OPER-C-67 odor response for the 272-WA women's restroom and restricted access. CSM issued SOEN communicating TFC-OPS-OPER-C-67 entry and access restriction of the 272-WA women's restroom. CSM issued SOEN exiting TFC-OPS-OPER-C-67 and down-posting the restricted access boundary/ restoring normal access at 1049 hours.	N/A		N/A
<u>01/05/2026</u> [0920 hours] Fact: Precautionary Medical Surveillance by the Site Occupational Medical Contractor (SOMC) Offered	N/A	N/A	N/A	N/A	The ADM offered precautionary medical surveillance to the worker who reported the odor. The worker declined precautionary medical surveillance from the SOMC.	N/A
<u>01/05/2026</u> [0940 to 1000 hours] Fact: TFC-OPS-OPER-C-67 Response Actions	N/A	N/A	N/A	N/A	Industrial Hygiene Technicians (IHTs) performed TFC-OPS-OPER-C-67 response actions around the affected area including, but not limited to the: - Hallway near the 272-WA women's restroom - 272-WA women's restroom, - 272-WA women's locker room, - Mothers room inside the 272-WA women's locker room All DRI monitoring results were below anticipated background levels and less than established action levels.	N/A

01/05/2026 [1049 hours] <u>Fact:</u> CSM notification of TFC-OPS-OPER-C-67 Completion and Exit	N/A	N/A	CSM issued SOEN exiting TFC-OPS-OPER-C-67 and down-posting the restricted access boundary/ restoring normal access at 1049 hours.	N/A		N/A
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23. Signatures

Prepared By: *(Event Investigator)*

████████████████████

Name (First, Middle Initial, Last)

Responsible Manager Approval:

████████████████████

Name (First, Middle Initial, Last)

CAS Manager Approval:

████████████████████

Name (First, Middle Initial, Last)



Signature / Date

INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR)

Event Title:
TFC-OPS-OPER-C-67 Women's Locker Room of 272WA

IHIR Number:
IHIR-00130

IHEI Number:
N/A

Date:
01/05/2026

Time:
0845

Location:
Women's locker room in 272WA

Event Summary and Timeline:

Event Summary:

On the morning of the odor event at 272WA, an employee noticed a "Propane/Gas smell" in the women's locker room and immediately reported it to site management and Industrial Hygiene (IH). Central Shift Office (CSO) was notified, prompting a Shift Office Event Notification (SOEN) issuance and restricting locker room and restroom access. IH team evaluated the situation, offered medical care (which was declined), and initiated vapor monitoring procedures to assess air quality and potential hazards. No action limits (ALs) were exceeded.

The response involved coordination between shift management, maintenance, and multiple IH teams, including confirmation that propane was not piped into the building or being contained in large concentrations nearby. IHs calculated action limits and reviewed potential chemical exposures, continuously updating relevant parties and management. Vapor monitoring was conducted in the affected areas, and all readings were reported below the ALs, indicating no immediate threat. The response concluded with an official briefing, documentation, and completion of the C-67 response plan, ensuring employee safety and communication throughout the incident.

Field Response Timeline:

0845:

Employee noticed "propane" smell in hallway outside of women's restroom at 272WA. Immediately notified shift manager, maintenance manager, and Retrieval & West Operations (RWO) Industrial Hygienist (IH). IH offered medical care, vapor response card. Employee declined medical.

0858:

Central Shift Office (CSO) notified of unusual odor. SOEN issued.

0859:

RWO IH notified Industrial Hygiene Manager's delegate of C-67 event and requested direction on whether to respond. Directed to standby until Production Operations (PO) team is contacted.

0900:

Access to women's restroom is restricted. Direct Feed Low Activity Waste (DFLAW) & PO IH @ CSO. CSM → Area Dayshift Manage (ADM): Propane piped into building? No.

PO IH → PO level 3 IH Manager:

DRI: H₂S, 10.6 eV Photoionization detector (PID), 11.7 eV PID, NH₃

0902:

DFLAW & PO IH check DFAS: Mixing height: 1000 ft → Relayed to CSM

CMS → PO/DFLAW IH: 1 worker "propane, no symptoms, offered medical

0906:

DFLAW & PO IH check Propane correction factor (CF) on 11.7 eV lamp. CF = 1.8

0907:

VMDs @ 0845:

518: 1.226 ppm

INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Event Summary and Timeline:

519: 0 ppm
A20: 0 ppm
A21: 0 ppm
726: N/A
727: N/A
702: 4.501 ppm
AP: 3.162 ppm
SY: 0 ppm

- 0910: IH Manager notified RWO IH that different team will handle C-67 response. IH offered support and techs if needed.
- 0912: CSM → PA → Need POC
- PO IH develops 11.7 eV action limit (AL)
Permissible Exposure Limit (PEL): 1,000 ppm
Threshold Limit Value (TLV): Oxygen displacement
Action Limit (AL): Occupational Exposure Limit (OEL) ÷ 2
Instrument AL = AL / CF = 1000 ÷ 1.8 = 555.56 ppm
- 0915: Affected employee completed and emailed vapor response card to CSM.
- 0918: PO Industrial Hygiene Technicians (IHTs) arrive @ CSO
- 0920: CSM → ADM: Confirmed med declined
- 0922: Briefing starts
IHSP - ALs - Location - monitoring - phone numbers - check drains
- 0925: RWO IHs arrive @ CSO
- L3 → ESHQ L1 + Dept + 2 IH update
- 0940: IHTs arrive at 272WA, receive permission to enter restricted area to perform monitoring.
- 0945: IHTs perform monitoring in hallway, in single hallway restroom, in women's restroom, locker room, mother's room (inside locker room), and opposite hallway.
- 0958: RWO IH Reports all reading <AL
- 1032: IHT reports instrument post in range
- 1036: Complete C-67 response plan

Sampling/Monitoring Results:

Direct Reading Instrument Monitoring Results:

- Monitoring was performed in single hallway restroom, women's restroom, locker room, mother's room (inside locker room), and opposite hallway.
- Peak readings during response:

INDUSTRIAL HYGIENE EVENT INVESTIGATION REPORT (IHIR) (Continued)

Sampling/Monitoring Results:

- o Ammonia: less than detectable
- o Volatile Organic Compounds (10.6 eV lamp): Peak of 0.0200 ppm
- o Volatile Organic Compounds (11.7 eV lamp): Peak 0.300 ppm
- o Hydrogen Sulfide: less than detectable

SWIHD References:

SWIHD survey #26-00029 "TFC-OPS-OPER-C-67 response at 272WA"

Additional Information:

IH confirmed there were no large propane tanks located inside or outside the Carpenter shop (outside 272WA). Carpenters confirmed there was a single small canister of propane within the shop's flam cabinet but those present, at the time of the odor event, reported no propane/gas smell.

Additional Background Information: 272WA Facility

Several months ago, the hallway restroom and the women's restroom experienced a sewage backup. Since that time, access to the hallway restroom has been restricted, and it remains out of service. Currently, no cleaning, maintenance, or usage is occurring in this restroom. The facility is expected to remain permanently out of service due to a plumbing issue requiring substantial reconstruction; the building was originally plumbed incorrectly.

During today's response, Industrial Hygiene Technicians (IHTs), observed that the toilet bowl in the affected hallway restroom contained no water.

In addition, the women's showers are infrequently used. When activated by an Industrial Hygienist, rust-colored water was noted coming from the shower heads. The shower area is located in a separate room from the sinks and toilets.

After the C-67 was cleared and access was restored, all showers in the women's restroom were run for several minutes. Water was also run in the sink of the hallway restroom; however, no water was flushed through the toilet due to ongoing plumbing concerns.

Recommendations/Conclusions:

Recommendations:

N/A

Conclusions:

- Direct Reading Instrumentation monitoring performed during response actions did not indicate further action was necessary to protect worker safety and health. As a result, the area was released from restricted access and work was allowed to continue.
- During response actions, a definitive source was not identified.
- While the response included prompt reporting, site management escalation, and thorough evaluation by multiple teams, no direct evidence pointed to chemical exposure or hazardous vapor accumulation.
- Known plumbing abnormalities, infrequent fixture use, and prior sewage issues in the facility may be potential contributors to the odor event, but a definitive cause could not be established based on available data.

Others:

N/A

Associated Documents:

iCAS Number: N/A

EIR Number: 2026-018

ODOR/VAPOR RESPONSE CARD

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

- Date and time of event: 1/5/20 0845
- Check Applicable:
 Odor Ammonia Alarm (6 ppm) Ammonia Alarm (12 ppm) Alarm (other - describe): _____
- Your name and the work you were performing: [REDACTED]
- Other Work Underway? Describe: NO
- Location of event (mark area on map and wind direction): 272WA Womens Locker Room
- Name(s) of others in or near the affected area: [REDACTED] (IHT's) office is near area.
- Was Industrial Hygiene present, who? yes [REDACTED]
- Describe the odor:

<input type="checkbox"/> Sweet	<input type="checkbox"/> Sour	<input type="checkbox"/> Smoky	<input type="checkbox"/> Septic/Sewer	<input type="checkbox"/> Musty	<input type="checkbox"/> Rotten
<input type="checkbox"/> Metallic	<input type="checkbox"/> Onion	<input type="checkbox"/> Earthy	<input type="checkbox"/> Ammonia	<input type="checkbox"/> Citrus	<input type="checkbox"/> Solvent

 Other (describe): Propane gas smell
- Is source known/likely? Describe: _____
- Your symptoms? None

<input type="checkbox"/> Headache	<input type="checkbox"/> Dizziness	<input type="checkbox"/> Nausea	<input type="checkbox"/> Cough	<input type="checkbox"/> Fatigue
<input type="checkbox"/> Weakness	<input type="checkbox"/> Sore Throat	<input type="checkbox"/> Difficulty Breathing	<input type="checkbox"/> Eye Irritation	<input type="checkbox"/> Rash
<input type="checkbox"/> Itch	<input type="checkbox"/> Tingling	<input type="checkbox"/> Numbness	<input type="checkbox"/> 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.