

Accidental Release Team

Dan Tillema

Lisaura Maldonado-Pereira

Eduardo Alvarez

Owen Trippany



U.S. Chemical Safety and
Hazard Investigation Board

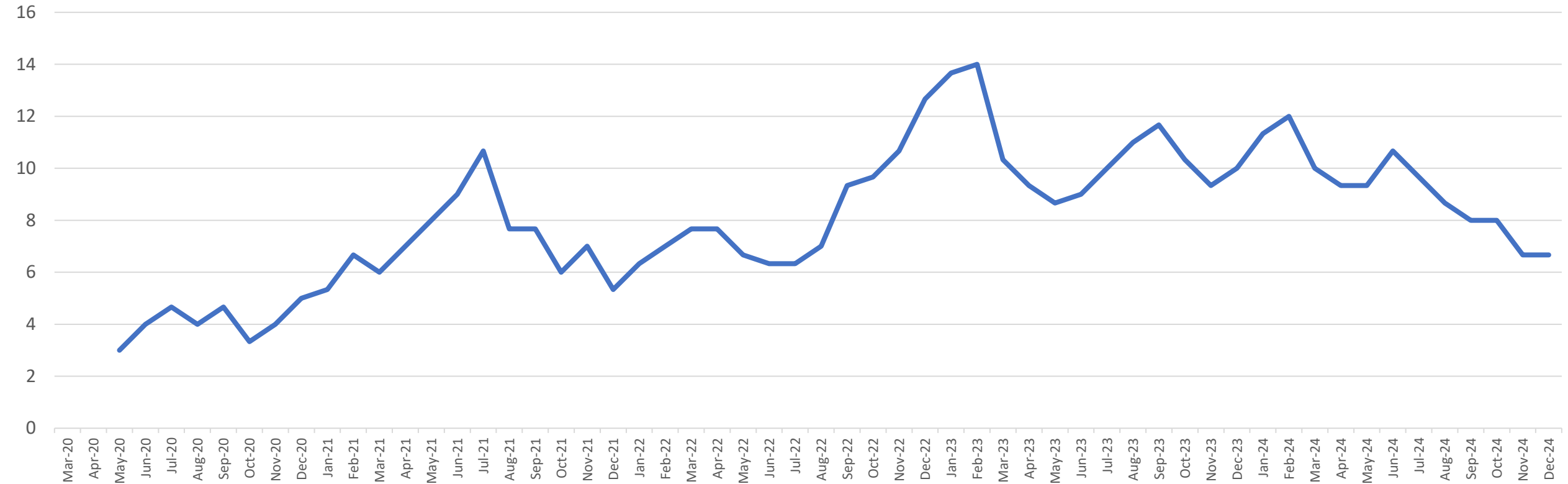
Accidental Release Reporting

Accidental Release Events								
Number	Incident Date	Company	City	State	Fatality	Serious Injury	Substantial Property Damage	Report
442	2024-10-10	Pemex	Deer Park	Texas	✓			
443	2024-10-13	CenterPoint Energy	Rogers	Minnesota	✓			
444	2024-10-14	Cobb Genetics	Pineville	Missouri		✓		
445	2024-10-17	Dow	Orange	Texas		✓		
446	2024-10-26	Enterprise Products	Bloomfield	New Mexico			✓	
447	2024-10-29	CF Industries	Donaldsonville	Louisiana			✓	
448	2024-11-06	Dominion Energy	South Jordan	Utah	✓		✓	
449	2024-11-12	Givaudan	Louisville	Kentucky	✓	✓	✓	
450	2024-11-13	Southern Company	Grayson	Georgia		✓		
451	2024-11-19	Consumers Energy	Lake Orion	Michigan		✓		
452	2024-11-23	Phillips 66	Goldsmith	Texas		✓	✓	
453	2024-12-02	Atmos Energy	Avondale	Louisiana	✓	✓		
454	2024-12-06	Georgia-Pacific	Cedar Springs	Georgia		✓		
455	2024-12-10	Carus Group	La Porte	Indiana	✓	✓		
456	2024-12-12	PBF Energy	Chalmette	Louisiana			✓	
457	2024-12-20	Kinder Morgan	Iraan	Texas			✓	
458	2024-12-21	Consumers Energy	Bay City	Michigan		✓		
459	2024-12-26	Tyson Foods	Camilla	Georgia	✓	✓	✓	
460	2024-12-30	Southwest Cheese	Clovis	New Mexico		✓		
Totals					68	249	214	

Accidental Release Reporting

Accidental Release Events

3-Month Moving Average



CSB Incident Reports

Incident Reports

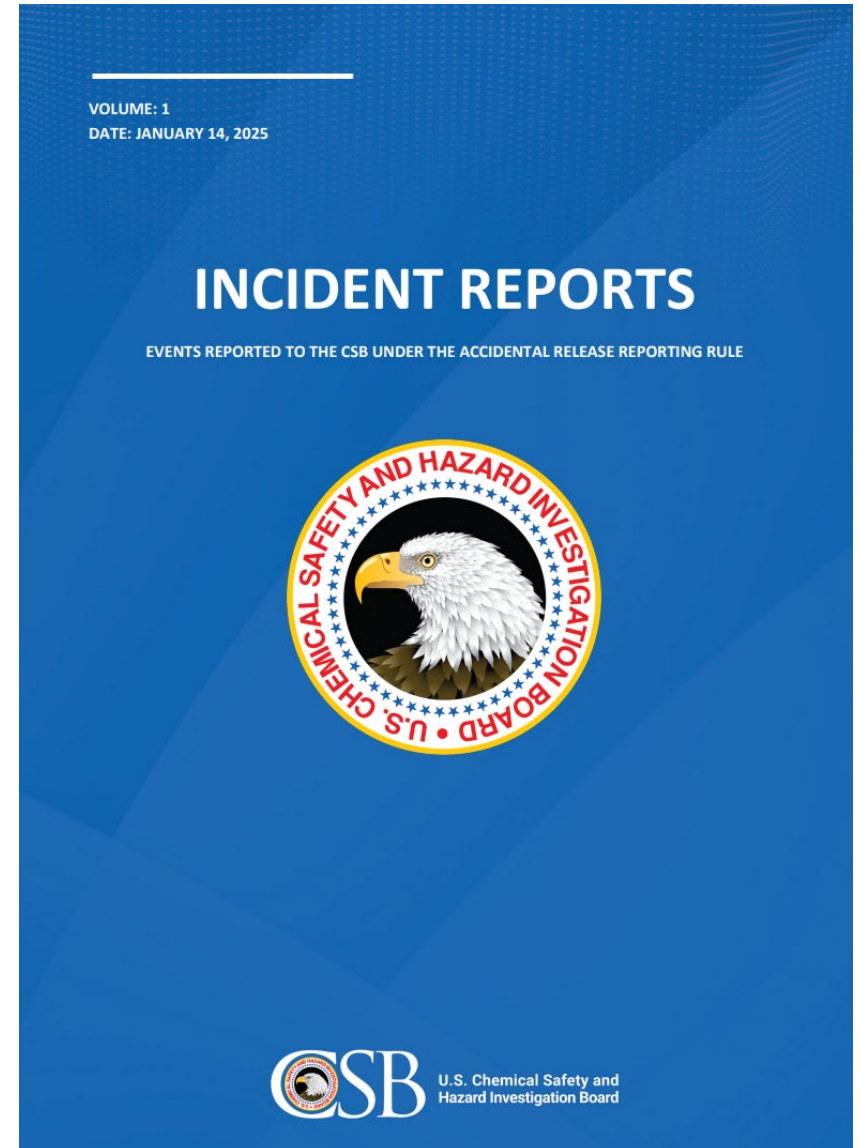
- Providing the public with more information from the Accidental Release Reporting Rule
- Summary of the accidental release event
- Probable Cause statement
- New volume of reports released each quarter

Volume One

- 26 accidental release events in 15 states
- 5 fatalities, 17 serious injuries
- \$700 million in property damage

Accidental Release Team

- Fatal toxic gas release at the Home Market Foods facility in Norwood, Massachusetts (Lisaura Maldonado-Pereira)
- Fatal flammable liquid release and fire at the Phillips 66 refinery in Borger, Texas (Eduardo Alvarez)
- Fatal chemical reaction, explosion, and fire at the Polycarbon Industries facility in Newburyport, Massachusetts (Owen Trippany)



Home Market Foods

December 19, 2022 | Norwood, Massachusetts



Incident Summary

- 22,000 pounds of anhydrous ammonia released
- One fatality and one serious injury
- \$4 million in property damage
- Scissor lift damaged ammonia piping
- Contract workers were replacing a comfort heater

Probable Cause

The CSB determined that the probable cause of the anhydrous ammonia release was piping damage caused by the scissor lift.



Phillips 66

January 17, 2023 | Borger, Texas

Incident Summary

- 16 barrels of natural gas liquid were released
- One fatality, one serious injury
- \$3.1 million in property damage
- Released vapor ignited, resulting in a fire
- Maintenance activity to secure wellhead
- Lockdown screw removed, releasing natural gas liquid
- Snubbing unit pressure at 400 PSIG

Probable Cause

- Inadvertent removal of a lockdown screw from the wellhead
- The use of a battery-operated impact wrench contributed to the incident
- Pressurized natural gas liquid in snubbing unit



Polycarbon Industries

May 4, 2023 | Newburyport, Massachusetts

Incident Summary

- One fatality
- \$48 million in property damage
- Facility permanently closed
- Self-accelerating decomposition reaction (Dekon 139)
- Agitator friction heated material, starting decomposition

Probable Cause

- Self-accelerating decomposition reaction producing flammable gases
- Combustible dust was ignited upon release
- Incomplete knowledge of Dekon hazards

