

**TETON COUNTY / TOWN OF JACKSON
HAZARDOUS MATERIALS
EMERGENCY RESPONSE PLAN**



by

Teton County Wyoming Local Emergency Planning Committee

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January 18, 2018

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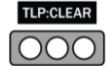
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**TETON COUNTY / TOWN OF JACKSON
HAZARDOUS MATERIALS
EMERGENCY RESPONSE PLAN**

APPROVAL & IMPLEMENTATION

The Teton County / Town of Jackson Hazardous Materials Emergency Response Plan (HMERP) is developed and maintained by the Teton County Local Emergency Planning Committee (LEPC) in accordance with the Emergency Planning and Community Right-to-Know Act (EPCRA). The LEPC serves as a planning, preparedness, coordination, and community right-to-know body. The LEPC does not direct or control incident response operations, which are managed by Incident Command and supported through established emergency management coordination structures.

The HMERP is considered part of Teton County and the Town of Jackson's emergency plan canon by Teton County Emergency Management, and as such all emergency services are expected to review, exercise, and follow this plan during hazardous materials incidents.

Teton County LEPC Chairperson Signature

Date

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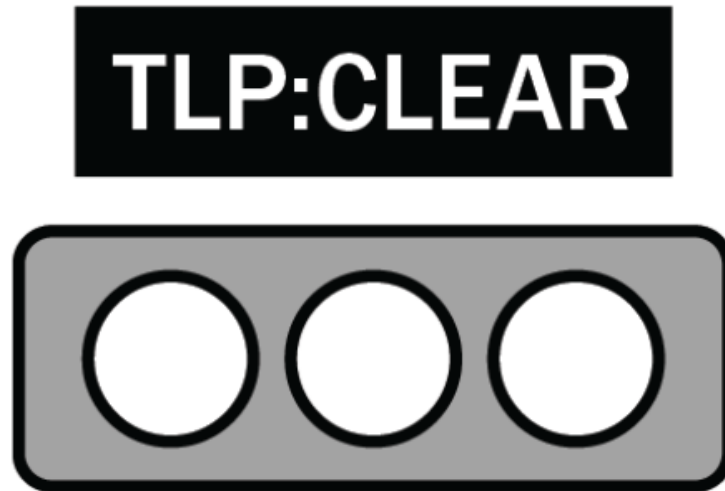
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Artificial Intelligence (AI) Assistance Disclaimer

*The original Hazardous Materials Emergency Response Plan was developed by the Teton County Local Emergency Planning Committee (LEPC) and partner agencies. Subsequent updates and revisions were prepared by LEPC staff with assistance from artificial intelligence tools, including **ChatGPT 5.2 (January 2026)**, to support drafting, editing, and consistency review. All content has been reviewed, edited, and approved by Teton County Emergency Management and the LEPC.*

DOCUMENT DISCLOSURE AND INFORMATION SHARING

This Hazardous Materials Emergency Response Plan is designated **Traffic Light Protocol (TLP): CLEAR**.



Information contained in this document may be shared openly and without restriction for the purposes of public awareness, emergency preparedness, training, and interagency coordination.

This designation applies **only to this plan document** and does not extend to supporting materials that are protected or restricted by law, including but not limited to:

- Facility-specific Tier II hazardous chemical inventory reports
- Sensitive security, vulnerability, or critical infrastructure information
- Law enforcement-sensitive or protected investigative information

Access to restricted materials is governed by applicable federal and state statutes, including the Emergency Planning and Community Right-to-Know Act (EPCRA), Wyoming public records law, and applicable security and privacy provisions.

Nothing in this designation expands or modifies statutory public disclosure requirements.

PROMULGATION OF SERC AND LEPC

On Oct. 17, 1986, the "Superfund Amendments and Reauthorization Act of 1986" (SARA) was enacted, containing provisions for emergency planning and community right-to-know. Among these provisions is one which requires the governor of each state to appoint a State Emergency Response Commission (SERC).

The Wyoming SERC was created April 17, 1987, through Executive Order 1987-3. In 2004, the Wyoming State Legislature passed the Wyoming Emergency Response Act. One of the provisions of this act was to establish the SERC in statute and expand its roles and responsibilities. Commensurate with Wyoming's SERC's legal scope is designation of a local emergency planning committee (LEPCs) to serve each of the districts.

The role of LEPCs is to form a partnership between local government and industry as a resource for enhancing hazardous materials preparedness. Local governments are responsible for the integration of hazardous materials planning and response within their jurisdiction. Through planning, coordination, and advisory activities conducted by LEPC members, this includes:

- Ensuring local hazard analysis adequately addresses hazardous materials incidents
- Incorporating planning for hazardous materials incidents into the local emergency management plan and annexes
- Assessing capabilities and developing hazardous materials response capability using local resources, mutual aid and contractors
- Recognizing response capability gaps and training responders
- Exercising the plan

Local industry and private stakeholders play integral roles in this planning process, primarily to ensure facility plans are compatible with local emergency plans. Every regulated facility is responsible for the following:

- Identifying a facility emergency coordinator
- Reporting hazardous materials inventories annually to the SERC, LEPC, and local fire department
- Providing safety data sheets (SDS) or a list of hazardous chemicals
- Allowing local fire departments to conduct on-site inspection of hazardous materials facilities
- Providing annual report on toxic chemicals released to EPA and the State (as applicable)



RECORD OF CHANGES

Change #	Date of Change	Substance of Change	Entered By
001	01/22/2018	p. 26 – eliminated reference to “Appendix 3” and substituted link to WHO website under “HazMat-CBRNE Medical Countermeasures”	Teton WY LEPC
002	03/15/2022	p.10 – Changed section “Teton County’s Hazard and Vulnerability Assessment (TCHVA)” to Hazardous Materials Hazard Vulnerability Assessment and updated information to reflect changes to Hazard Mitigation Plan	Teton WY LEPC
003	03/15/2022	p. 14 – Under “Direction and Control” added that an Incident Commander is authorized to request activation of the EOC	Teton WY LEPC
004	03/15/2022	p. 28 – Updated contact lists	Teton WY LEPC
005	03/15/2022	p. 34 – Updated “Resources” weblinks	Teton WY LEPC
006	03/15/2022	p. 35 – Changed header from “Select EPCRA & EPA Terminology” to “Terminology”. Updated definitions for EHS, EPCRA, Tier II, RERT, and TPQ	Teton WY LEPC
007	3/15/2022	p. 16 – “Reporting and Notification” added notification from IC to St. John’s Health if there is hazmat contamination of people. Also updated public alert/warning info.	Teton WY LEPC
008	01/13/2026	p. 1 – Updated Approval & Implementation section to clarify the LEPC’s planning and coordination role, remove individual identifiers, and confirm that incident response operations are managed by Incident Command in accordance with established emergency management structures.	Teton WY LEPC
009	01/13/2026	p. 2 – Refined language in the Promulgation of SERC and LEPC section to clarify that LEPC activities are advisory and planning-focused and do not imply operational authority during hazardous materials incidents.	Teton WY LEPC
010	01/13/2026	p. 6 - Added language to Section I – Introduction clarifying the HMERP’s alignment with the TC-EOP, including support to Incident Command, use of ESF #10, and EOC coordination processes.	Teton WY LEPC
011	01/13/2026	p. 13 - Updated Direction and Control language to reinforce Incident Command authority and clarify the EOC’s support role consistent with the TC-EOP and ESF #10 coordination model.	Teton WY LEPC
012	01/13/2026	p. 17 - Clarified Reporting and Notification procedures to distinguish operational notification pathways from LEPC situational awareness and statutory support functions. Replaced “Nixle” references with Teton_WY Alerts.	Teton WY LEPC
013	01/13/2026	p. 28 - Replaced Section V – Contacts with role- and agency-based references and removed individual contact information to support public release and reduce maintenance requirements.	Teton WY LEPC



Change #	Date of Change	Substance of Change	Entered By
014	01/13/2026	p. 29 - Updated Section VI – Training to clarify the LEPC's support and planning role and to link training activities to plan validation and improvement.	Teton WY LEPC
015	01/13/2026	p. 32 - Revised Section VII – Exercises to align hazardous materials exercises with the TC-EOP exercise program and clarify the LEPC's evaluative role.	Teton WY LEPC
016	01/13/2026	p. 33 - Added language to Section VIII clarifying public participation and community right-to-know processes under EPCRA.	Teton WY LEPC
017	01/13/2026	p. 35 - Updated Section X – Terminology to defer general emergency management definitions to the TC-EOP and retain focus on hazardous materials-specific terms.	Teton WY LEPC
018	01/13/2026	p. 39 - Added clarifying language to Appendix A distinguishing on-scene ICS operations from EOC coordination and ESF support.	Teton WY LEPC
019	01/13/2026	p. 46 - Updated Appendix B to align media coordination and public information roles with Incident Command and TC-EOP ESF #15 processes.	Teton WY LEPC
020	01/16/2026	p. 36 – Updated Section VIII (EPCRA / Community Right-to-Know) to clarify that the Teton County LEPC maintains historical Tier II records but provides public access only to the most current reporting year.	Teton WY LEPC
021	01/16/2026	p. 25 – Updated Section III (Site Management and Control) to add a bullet defining roles for incoming agencies based on ESF #10 as the primary function and supporting agencies.	Teton WY LEPC
022	01/16/2026	p. 27 – Updated Section III (Realistic Tactical Objectives) to add non-engagement and area control/isolation as identified tactical objectives during hazardous materials incidents.	Teton WY LEPC
023	01/16/2026	Throughout document – Updated references to hazardous materials response standards to reflect the current, consolidated NFPA 470 (2022) standard in place of prior specific references to NFPA 472.	Teton WY LEPC
024	02/05/2026	Added Document Disclosure section designating the plan as TLP: CLEAR.	Teton WY LEPC

I: INTRODUCTION

Purpose

This plan establishes the policies and procedures under which Teton County and the Town of Jackson will operate in the event of a hazardous materials incident, oil spill, or other release. This plan is designed to prepare Teton County and its political subdivisions for incident response and to minimize the exposure to or damage from materials that could adversely impact health and safety or the environment. This document outlines the roles, responsibilities, procedures and organizational relationships of government agencies and private entities when responding to and recovering from a hazardous materials event.

The plan provides guidance for hazardous materials incident planning, notification and response as required by SARA Title III of 1986, also known as the Emergency Planning & Community Right-to-Know Act, which shall hereafter be referred to as EPCRA.

Scope

This plan supersedes previous Teton County and Town of Jackson preparedness and response guidelines related to hazardous materials incidents to include accidental or intentional releases of chemical/toxic substances, biological agents, radiological materials, and nuclear devices, as well as acts of terrorism involving suspected or confirmed release of chemical, biological, radiological, nuclear, and/or explosive materials. Teton County's Comprehensive Hazardous Materials Emergency Response Plan (HMERP) does not replace local, state, or federal law enforcement directives whose core capabilities support intelligence gathering, implementation of security measures, or directives to maintain civil community functions. This plan presumes co-direction with law enforcement entities and agencies when actual or supposed dangers from hazardous materials complicate intelligence gathering, implementation of security measures, and directives to maintain civil community functions.

Although this plan primarily provides direction to Teton County and Town of Jackson resources, it does mention for clarification overlapping jurisdictions and responsibilities with other local, State, Federal, and other partners.

Policies and Legal Authorities

- National Preparedness Goal
 - National Prevention Framework
 - National Protection Framework
 - National Mitigation Framework
 - National Response Framework
 - National Disaster Recovery Framework
- National Incident Management System
- Homeland Security Exercise and Evaluation Program (HSEEP)
- Federal Radiological Emergency Response Plan
- Comprehensive Preparedness Guidance 101, November 2010

- Comprehensive Preparedness Guidance 201, Threat and Hazard Identification Risk Analysis (THIRA), August 2013
- FBI Concept of Operations for Weapons of Mass Destruction
- The Superfund Amendment and Re-Authorization Act, 1986, SARA Title III Legislation
- The Comprehensive Environmental Response, Compensation, and Liability Act, 1980 (CERCLA)
- Public Law 101-549, Clean Air Act Amendments of 1990
- Public Law 101-615, Hazardous Materials Transportation Uniform Safety Act (HMTUSA)
- Public Law 107-296, 116 Stat. 2135, Homeland Security Act, 2002
- Atomic Energy Act of 1954 (amended in NUREG-0980)
- Robert T. Stafford Disaster Relief and Emergency Assistance Act (Public Law 93-288, amended)
- 42 U.S. Code § 116: Emergency Planning and Community-Right-to-Know Act
- 42 U.S. Code, § 2210, Indemnification and limitation of liability (Price-Anderson Act)
- 29 CFR 1910.120
- 40 CFR § 260-399, 300, 355 (including appendices A & B)
- 44 CFR § 10-14; 59-76; 206; 350
- 49 CFR § 100-199
- Wyoming Statutes, §14-3-405. Taking of child into custody; when permitted.
- Wyoming Statutes, §16-4-203. Right of inspection; grounds for denial; access of news media; order permitting or restricting disclosure; exceptions.
- Wyoming Statutes, §19 et al. Wyoming Office of Homeland Security
- Wyoming Statutes, §25-10-109. Emergency detention.
- Wyoming Statutes, §35-9-116. Removal of combustible material; remedy of flammable conditions.
- Wyoming Statutes, §35-9-155. Regional response teams; rulemaking.
- Wyoming Statutes, §35-9-156. Local response authority.
- Wyoming Statutes, §35-9-157. Right to claim reimbursement.
- Wyoming Statutes, §35-9-158. Expense recovery and civil remedies.
- Wyoming Administrative Rules; Environmental Quality, Dept. of; Water Quality – Chapter 4: Releases of Oil & Hazardous Substances into Waters

- Teton County Resolution 2015-039 & Town of Jackson Resolution 15-24, Teton County & Town of Jackson Emergency Management Resolution
- Teton County Resolution 2015-038 & Town of Jackson Resolution 15-23, Teton County & Town of Jackson NIMS Resolution
- Teton County Resolution 88-003, Resolution Implementing for Teton County the Emergency Planning and Community Right-to-Know Act of 1986
- Teton County / Town of Jackson Local Emergency Planning Committee Bylaws

This Hazardous Materials Emergency Response Plan is part of the Teton County and Town of Jackson emergency planning framework and is intended to support on-scene Incident Command and Emergency Support Function (ESF) #10 – Hazardous Materials Response. When the Emergency Operations Center (EOC) is activated, coordination and support for hazardous materials incidents are conducted in accordance with the Teton County Emergency Operations Plan (TC-EOP). Terms, processes, and coordination structures not specifically defined in this plan are used consistent with the TC-EOP.

II: SITUATIONS AND ASSUMPTIONS

Situations

A variety of hazardous materials are transported, stored, and used daily within Teton County and the Town of Jackson. An additional source of hazardous materials comes from products transported through the county. These hazardous materials include toxic chemicals, flammable liquids and gases, and radioactive materials. These hazardous materials are used in agriculture, industry, business, and other commercial and domestic applications.

When properly used, applied, controlled, and contained, hazardous materials benefit our community. When accidentally or intentionally released they pose a threat to life, property, and the environment. Thorough planning and rapid, efficient response are imperative for mitigation of hazardous materials incidents. Inadequate response and recovery operations can be costly in terms of lives, dollars, and environmental damage.

Most hazardous materials incidents require a multi-disciplinary approach with all responders participating in a coordinated effort. Utilizing the National Response Framework (NRF) and its designation of Emergency Support Function (ESF) annexes, this HMERP guides resources according to their capabilities to augment and support Jackson Hole Fire/EMS and its hazardous materials response division. **The Authority Having Jurisdiction (AHJ) and its hazardous materials response division will act as the lead agency to organize a collaborative emergency response to accidental or intentional hazardous materials releases.** Common AHJs are listed below:

Geographic Area	Authority Having Jurisdiction (AHJ)
Town of Jackson	Jackson Hole Fire/EMS
Unincorporated areas of Teton County	Jackson Hole Fire/EMS
Grand Teton National Park	National Park Service
Yellowstone National Park	National Park Service
Bridger-Teton National Forest	U.S. Forest Service
Caribou-Targhee National Forest	U.S. Forest Service
National Elk Refuge	U.S. Fish & Wildlife Service
Teton Village	Teton Village Fire Department
Jackson Hole Airport	Jackson Hole Airport Fire Department
State Highways	Wyoming Highway Patrol
State Forest Lands	Wyoming State Forestry Division
State Game & Fish Lands	Wyoming Game & Fish
Teton County School District #1 property	Teton County School District #1

Table 1 – Authorities Having Jurisdiction (AHJ)

It is understood that many AHJs do not have a hazardous materials division and would call upon the services of Jackson Hole Fire/EMS and/or Regional Emergency Response Team 8 to assist with hazardous materials response. This mutual aid assistance does not relieve the AHJ from ultimate responsibility for the management of the hazardous materials incident, however.

Executive Summary of Hazardous Materials Response Capabilities

Teton County and the Town of Jackson's hazardous materials response capabilities consist of a first response involving a combination volunteer/career fire department with general personnel trained to hazardous materials operational level of response. Every member of Jackson Hole Fire/EMS has annual training to assure compliance with hazardous materials operational core competencies outlined in 29 CFR 1910.120(q)(6)(ii). Supporting first response agencies and units are generally



trained to an awareness level and possess sufficient training to recognize hazardous materials events, isolate the scene, and notify additional resources.

This HMERP dictates an initial “operations” level of response to known or suspected hazardous materials releases. This initial operational mode stipulates a “defensive” posture and defines a response meant to control the release from a safe distance and keep it from spreading. Defensive strategy and tactics will be maintained until activation of specialized resources. Supporting agencies will be assigned as need demands and agency capability dictates.

Authorized personnel can request activation of additional, specialized resources and implement a “technician/specialist” level of hazardous materials response. Activation requires notification of Wyoming Office of Homeland Security. **Activation approval stands up one or more of Wyoming’s Regional Emergency Response Teams and indicates transition to an “offensive” posture.** An “offensive” posture defines a response that uses specialized chemical protective clothing and specialized control equipment to mitigate hazardous materials/WMD incidents at points/area of release.

Teton County maintains a Wyoming Regional Emergency Response Team assigned to Region #8 (**RERT#8**). The team consists of hazardous materials technician-level and hazardous materials incident command certified responders. RERT#8 maintains specialized training and core competencies as outlined in 1910.120(q)(6)(iii) and 1910.120(q)(6)(v). RERT#8 capabilities include use of specialized chemical protective clothing (CPC), atmospheric/area monitoring equipment, sampling and presumptive screening capability, leak/spill/release countermeasures, and advanced decontamination procedures. RERT#8 can also deploy an Explosive Ordinance Disposal (EOD) unit, hazardous materials security detail for event reconnaissance/protection, and ALS/Paramedic licensed personnel.

NIMS and the Incident Command System (ICS), NFPA 470 Series (2002) are operational expectations at all confirmed or suspected hazardous materials incidents.

Teton County Geographic & Transportation Summary

Teton County is on the western edge of Wyoming, sharing a border with Bonneville County ID, Teton County ID, Fremont County ID, Gallatin County MT, Park County WY, Fremont County WY, Sublette County WY, and Lincoln County WY.

Teton County does not have designated hazardous materials routes. **With the limited access to the county, a large hazardous materials incident on any ingress route could have significant economic and life safety impacts.** It is not generally known when hazardous materials are passing through the county, or what the hazardous materials are. To date, Teton County has not completed an official hazardous commodities flow study.

The following transportation information is provided for emergency planners and responders to maintain an awareness of routes used by carriers transporting hazardous materials. Reference included map.

- The major route crossing the Teton Range is Wyoming State Highway 22 (**Teton Pass**).
- The major route crossing to the east across the Absaroka Range is US Highway 26 (**Togwotee Pass**).
- There are two southern Teton County routes: along US Highway 26 (**Snake River Canyon**) and US Highway 191 (**Hoback Canyon**).
- To the north, the major route out of Teton County is through Yellowstone National Park’s **South Gate** on N Highway 89. This is closed to all but over-snow vehicles in the winter.



- Teton County has no rail lines.
- Teton County has no commercial shipping of hazardous materials by waterway.
- All official air transportation of hazardous materials into Teton County is routed through **Jackson Hole Airport**.
- The National Pipeline Mapping System indicates that the **Hoback Pipeline** through the Hoback Canyon is the single regulated transmission line for methane into Teton County.

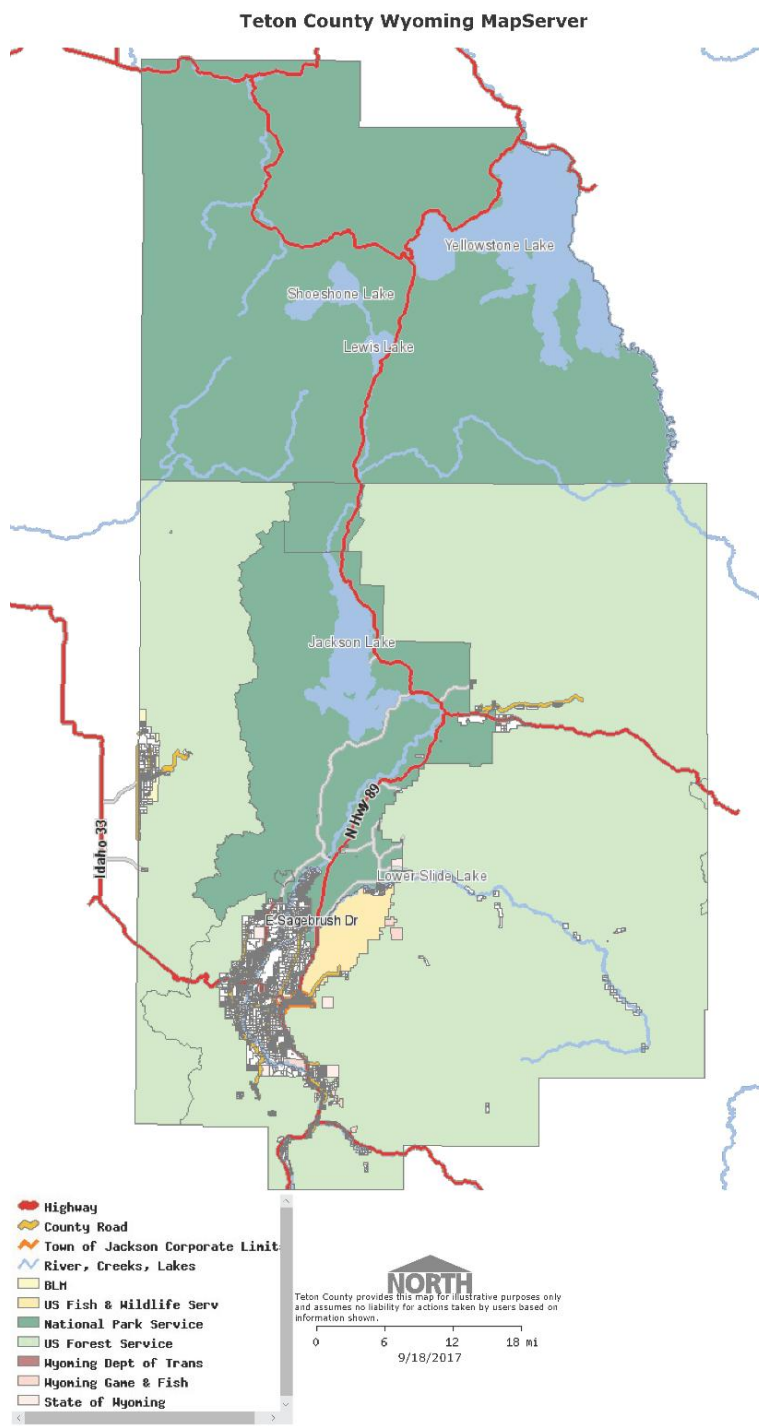


Figure 1 – Map of Transportation Routes and Waterways

Hazardous Materials Hazard and Vulnerability Assessment (HVA)

Teton County's Hazard Mitigation Plan reviews a variety of natural hazards that may impact Teton County. The plan purposely omits hazardous materials since its focus is on natural hazards, however many of the natural hazards featured in the Hazard Mitigation Plan could cause cascading effects on hazardous materials and their facilities. Additionally, Teton County's Threat and Hazard Identification Risk Assessment (THIRA) features scenarios that could cascade into hazardous materials incidents. The THIRA attempts to forecast worst-case scenarios for the release and potential gaps in our community's ability to respond.

The primary source of hazards and vulnerabilities from hazardous materials are the annual Tier II reports received from hazardous materials facilities. Teton County LEPC plays an active role in providing technical assistance to facilities in completing their reports, receiving the Tier II reports from the Wyoming SERC, error-checking the reports, then finally sharing the reports with Teton County fire departments, law enforcement agencies, and dispatch centers as both individual PDF reports and as a .KMZ file for them to perform analysis in their own mapping software. Additionally, the Teton County LEPC provides an annual presentation to LEPC members on the status of Tier II reports received, most frequent chemicals reported, and any major changes to reports.

Hazardous materials response agencies may also request the CAMEO data file for Tier II information from the Teton County LEPC so that they can perform analysis in ALOHA and MARPLOT software for their specific response area.

Lastly, hazardous materials response agencies may request from the Teton LEPC chair access to PEAC WEB, a web-based software that catalogs Teton County's Tier II information on an interactive map that includes current weather, basic infrastructure and facilities, modeling capabilities, worst-case scenarios, and more.

Assumptions

- An accidental release of hazardous materials could pose a threat to the local population or environment.
- A hazardous materials incident may be caused by or occur during another emergency, such as flooding, a major fire, or earthquake.
- A major transportation hazardous materials incident may require the evacuation of citizens from any location in Teton County along its major transportation routes.
- The length of time available to determine the scope and magnitude of a hazardous materials incident will impact protective action recommendations.
- Wind shifts and other changes in weather conditions during an incident may necessitate changes in protective action recommendations.
- If an evacuation is recommended because of a hazardous materials incident, most of the population in an affected area will typically relocate voluntarily when advised to do so by local authorities.
 - Some residents will leave by routes other than those designated by emergency personnel as evacuation routes.
 - Some residents of unaffected areas may also evacuate spontaneously.
 - People who evacuate may require shelter in a mass-care facility.

- People who refuse evacuation assume liability for their health and safety.
- Evacuation procedures from Teton County/Town of Jackson EOP will be utilized.
- Refusal to evacuate *may* precipitate legal intervention depending on individual circumstance and/or severity of event/release.
 - Law enforcement may consider using Wyoming §25-10-109, “Emergency detention” or §14-3-405, “Taking of child into custody; when permitted” statutes to forcibly remove people with mental illness or are too young to make proper evacuation decisions.
 - Fire officials may consider using Wyoming §35-9-116 “Removal of combustible material; remedy of flammable conditions” to evacuate people from a building or area with immediate life safety issues
- Residents/Visitors with access and functional needs may require assistance when evacuating.
- Residents/Visitors will respond appropriately to public alert instructions.
- Residents/Visitors will have pets and livestock that may need to be evacuated and sheltered.
- Hazardous materials could possibly enter water or sewer systems and necessitate the shutdown of those systems.

Limitations

- This plan does not imply, nor should it infer or guarantee that a perfect response will be practical or possible. ***No plan can shield individuals from all events.***
- Responders will attempt to coordinate the plan and response according to existing standards and protocols.
- Every reasonable effort will be made to respond to emergencies, events or disasters; ***however, personnel and resources may be overwhelmed.***
- There may be little to no warning during specific events to implement operational procedures.
- The success or failure of all emergency plans depends upon effective tactical execution.
- Successful implementation of this plan depends on timely identification of capabilities and available resources at the occurrence of the incident; successful implementation of this plan also depends on a thorough information exchange between responding organizations and both storage facilities and transporter of hazardous materials.
- Each agency, facility and jurisdiction will respond within the training, capabilities, and qualifications limits of its members.

III: CONCEPT OF OPERATIONS

General

Teton County's Local Emergency Planning Committee (LEPC) will assist Jackson and Teton County's response agencies in preparing and reviewing hazardous material response plans and procedures.

The authorized representative of the regulated facilities and transportation companies involved in an actual or suspected release of a hazardous material will **promptly** notify the Public Safety Answering Point (9-1-1) and/or appropriate response agencies, LEPC, Wyoming Division of Environmental Quality (DEQ), other potentially affected LEPCs, and tribal governments of the incident. Regulated facilities and transportation companies will also make recommendations to responding agencies on how to contain any release and protect the public and environment according to best practices.

Agencies responding to the release will do so only to the extent of their personnel's training and qualifications, available resources, and capabilities. The Incident Commander will request the assistance of regional and mutual aid partners when the size and scope of the hazardous materials incident exceeds the response capabilities of Jackson and Teton County's local emergency responders. Jackson Hole Fire/EMS maintains a current list of mutual aid agreements that is available for consultation. Teton County's Emergency Management's Emergency Manager (or designee) is an incident commander's point-of-contact for request/activation of mutual aid resources should their agency lack appropriate resources or agreements. Agencies may also have their own mutual aid agreements with other jurisdictions, which they are expected to utilize per their agency protocols and procedures.

An understanding exists that first-due units will assume incident command and begin developing an incident action plan (IAP). The initial IAP will focus on maintaining responder safety, securing the scene, isolating hazards to the best of a first-due unit's ability, implementing standard operating procedural mitigation measures, and notifying necessary agencies for activation of additional resources.

Once initial actions are underway, incident command may shift to another, more qualified individual. This individual will implement standard ICS positions and **ensure activation of the Hazardous Materials Branch** according to best practices and need for command/control oversight. See [Appendix A](#) for expanded ICS and Hazardous Material Branch specific positions.

Options also exist for unified command, and operational personnel directly involved with the incident may recommend partners for unified command. Final assent for unified command rests with the Authority Having Jurisdiction (AHJ). In the absence of an Agency Administrator (AA) to make this decision, it must be reached by consensus between those agencies that have a response role on scene at the hazardous materials incident.

An incident commander's first priority involves determining appropriate protective action for the public, disseminating such recommendations, and implementing them. Incident command will utilize an appropriate pool of resources to determine protective action. These resources may include departments, teams, printed and online resources, and consultants from several areas. Incident Command will notify Teton County Emergency Management of protective action instructions and who they should be disseminated to, so they can choose the appropriate public alert and warning tools to activate, per the Teton County/Town of Jackson Emergency Operations Plan (EOP).

All responders not otherwise engaged in protective or stabilization actions will assist with the identification of the party responsible for the hazardous materials incident. Collection and reporting of relevant information related to their response activities is key. Information related to incident mitigation, operations, and/or safety should be reported by any individual through an identified ICS chain-of-command to assure implementation of appropriate actions.

Direction and Control

Incident Command for hazardous materials response will correspond to standard NIMS ICS practice. Incident command will be activated by first-arriving units and will be "modular to allow the application of only those elements that are necessary at a particular incident and to allow elements to be activated or deactivated as the needs of incident change with time" (NFPA 1561.5.1.3).

Hazardous materials incidents are managed using the Incident Command System (ICS). The Incident Commander is responsible for on-scene operations and may request additional support through established dispatch and emergency management procedures. When activated, the EOC provides coordination and support to Incident Command consistent with the Teton County Emergency Operations Plan and ESF #10.

Command should and must transfer to more qualified personnel as complexity escalates. Consideration for incident command personnel will take into account qualifications/competencies guided by NFPA 470 chapter 12, applicable code, ordinance, or agreement. This will be accomplished with an understanding that an incident commander may meet functional standards by assigning and utilizing deputy commanders/consultants with specialized knowledge of hazardous materials response. *In some situations or agencies, a lower ranking but more qualified person may be designated as the Incident Commander.*

Ideally, an Incident Commander should be assigned from the AHJ. In the event the AHJ does not have an Incident Commander of sufficient expertise, a Unified Command should be formed with the AHJ and a Unified Commander with sufficient expertise.

Designated agencies from which incident commanders may be drawn from in Teton County's emergency planning district include, but are not limited to, Jackson Hole Fire/EMS, Teton Village Fire Department, Jackson Hole Airport Fire Department, Teton County Sheriff's Office (including Search & Rescue), Jackson Police Department, Teton County Public Health, Wyoming Highway Patrol, Yellowstone National Park, Grand Teton National Park, National Elk Refuge, Bridger-Teton National Forest, and Caribou-Targhee National Forest.

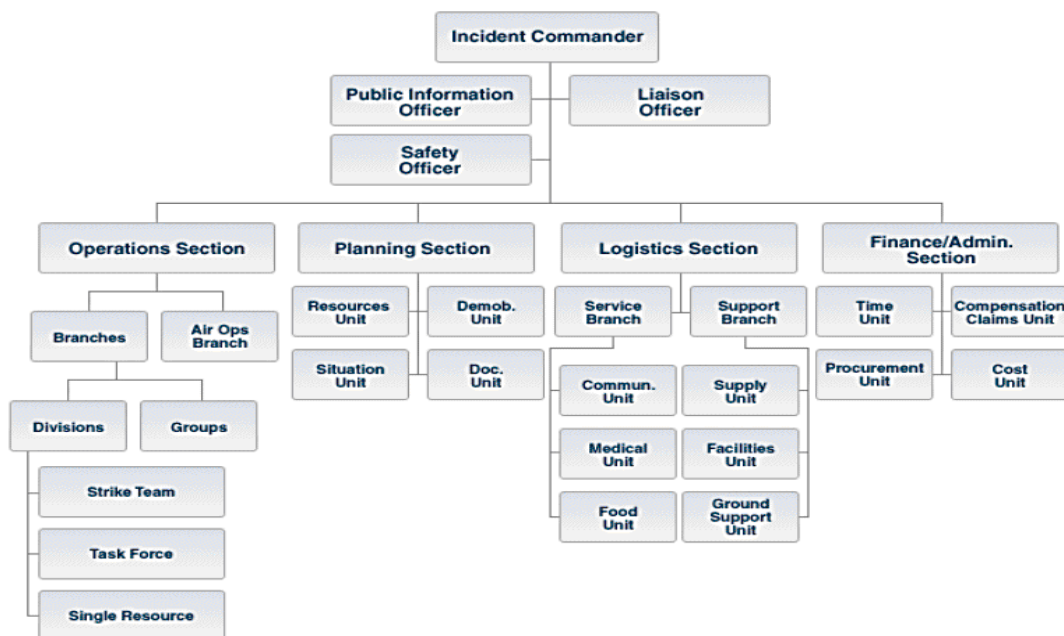


Figure 2 – ICS Organizational Chart

The **Incident Commander** will direct the activities of deployed emergency response elements through the Incident Command Post (ICP). The response will initially concentrate on the immediate needs at the incident site by securing the scene, isolating the area, implementing traffic controls, containing the spill, and implementing protective actions for emergency responders and the public at risk.

The **Public Information Officer (PIO)** will act in accordance with FEMA best practices—operating within the incident command system—to gather, verify, coordinate, and disseminate accurate, accessible, and timely information on the incident's cause, size, and current situation. A PIO will additionally brief media sources on resources committed and ordered, as well as prepare and deliver information regarding other matters of general interest for both internal and external use.

All information in the field must be cleared by the IC prior to release by the PIO.

Teton County's EOC will activate when requested by an Incident Commander to support incident command's actions. Effective exchange of critical information between the EOC and ICP is essential for success of overall response efforts. Teton County's EOC will act as a central location from which local government representatives and public safety officials will provide interagency coordination and executive decision making in support of incident response and recovery operations.

The EOC **does not command or control on-scene response efforts** but acts as part of the Multi-Agency Coordination System (MACS) by:

- Collecting, evaluating and disseminating incident information
- Analyzing jurisdictional impacts and setting incident priorities
- Processing resource requests and assisting with resource allocation

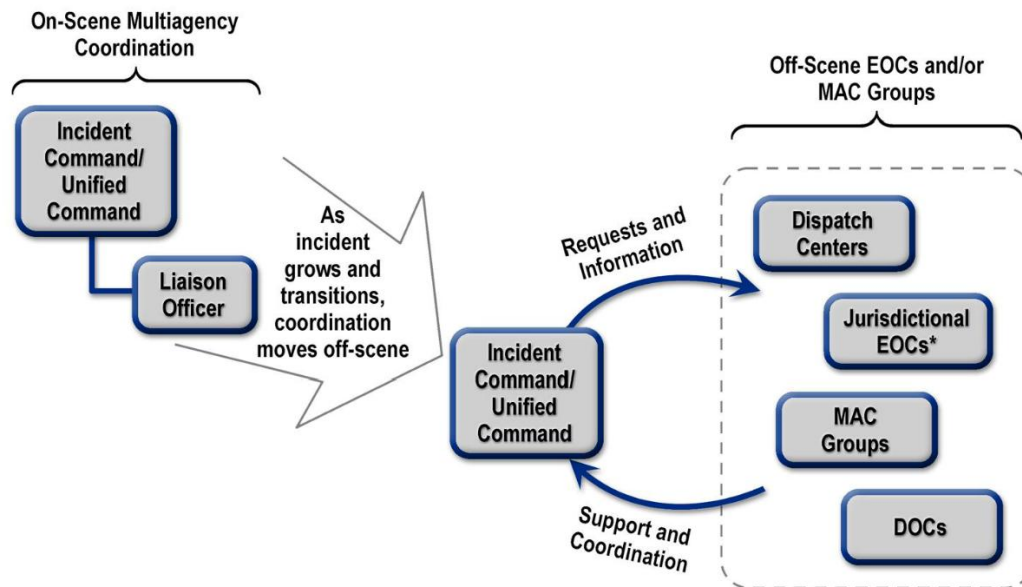


Figure 3 – Multi-Agency Coordination System (MACS) Components

Decisions made through Teton County's EOC are designed to be broad in scope and offer general guidance on priorities. Teton County EOC Manager (or designee) disseminates information to support field-response personnel and their tactical decisions. **The EOC serves as a coordinating link** between Jackson/Teton County's elected officials and the field personnel coordinating the execution of event priorities. Teton County EOC is the designated point-of-contact for mutual aid, state, and federal resources.

Release Identification

Methods and procedures for determining a hazardous materials release and reasonable supposition regarding extent of affected areas will be the responsibility of licensed hazardous materials transportation personnel, regulated/TIER II reporting facility personnel and emergency responders.

It is understood that the methods and procedures utilized by various entities (i.e. transportation, fixed facility, emergency responder) for determining a release occurred will differ in scope and extent.

Hazardous materials shippers within Teton County will comply with applicable sections of 49 U.S. Code Chapter 51 and follow the general shipper responsibilities as contained in 49 CFR Part 173. Fixed facilities will conform to current, adopted local, state, and federal regulations for reporting hazardous materials, planning for emergencies, and notifying necessary agencies in the event of an unauthorized release. Fixed facilities must also comply with EPCRA Section 302(a)(2) regarding the required reporting of releases of Extremely Hazardous Substances (EHSs). EHS Reportable Quanti-

ties (RQs) are codified in 40 CFR Part 355, Appendix A and B. The use of facility emergency coordinators is key, and these personnel must be charged with developing the tools, methods and procedures used by a facility to determine: (1) the occurrence of a release; and (2) identification of released material(s).

The recognized methods and procedures Teton County/Jackson responders will use to identify the release of hazardous materials vary by training and qualification.

All first responders involved with hazardous materials identification/response will follow current edition NFPA 470 guidelines and procedures associated with their qualification level. First responders will limit their actions to identify the occurrence of a release to those protocols specified for the hazardous materials response qualification level to which they are trained and currently qualified.

Releases of hazardous materials in transit will most likely be observed by the transport agent, citizens and/or responders. Methods and procedures used to determine the occurrence of a release will vary by the qualification of the responder and the resources available to the transport agent.

Reporting and Notification

Hazardous materials release notifications come from multiple sources. The most reliable notifications come from individual regulated facilities, transportation agents, or responders.

In the event of any releases of hazardous materials under their supervision surpassing thresholds of **Reportable Quantities (RQ)**, responsible parties must immediately notify the local Public Safety Answering Point (**9-1-1**) for emergency response. When practical, the Teton County LEPC, Wyoming Department of Environmental Quality (DEQ) and/or the National Response Center (NRC) must also be notified by the hazardous material's responsible party. The facility emergency coordinator, transporter, authorized representative or responsible party should provide reliable, effective and timely notification of a release.

RQs can be found in the EPA's "Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112(r) of the CAA" (a.k.a. List of Lists). RQs for Wyoming DEQ can be found in the Wyoming Water Quality Rules, Chapter 4: Releases of Oil & Hazardous Substances into Waters.

In general, a **responsible party must report the following releases:**

- An Extremely Hazardous Substances (EHS) from the List of Lists spilled in excess of its RQ must be reported to the LEPC and the State Emergency Response Commission (SERC).
- A Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substance spilled in excess of its RQ must be reported to the DEQ, NRC, LEPC, and SERC.
- Any spill of a hazardous substance that enters or threatens to enter waters of the state must be reported to DEQ. Spills of 25 gallons or less of refined crude oil products (including gasoline and diesel) that does not physically enter waters of the state and is immediately contained and removed does not need to be reported to DEQ.

Response agencies and responders will be notified of a hazardous materials release using the following notification procedures:

- Public Safety Answering Point (PSAP; **9-1-1**) will be notified of the spill by the responsible party or bystanders and dispatch the appropriate emergency responders.

- Incident Commander will request that Dispatch notifies St. John's Health Emergency Room if people are exposed to a hazardous material or if those suspected of being exposed are being transported or are self-transporting to the hospital.
- Notifications during hazardous materials incidents are initiated by Incident Command through dispatch and emergency management coordination channels. The LEPC may be informed for situational awareness, statutory reporting support, and post-incident review, but does not perform operational coordination functions during incident response.
- Teton County LEPC Chair and the Teton County Emergency Manager will be notified by the PSAP in the event of a large spill (> 55 gallon; > 208 liters)
- If the release is more than the Reportable Quantities (RQ) listed in the EPA's "List of Lists" (CFR 40, §355 Appendices A, B), the Incident Commander will ask the PSAP to notify the LEPC Chair and Teton County Emergency Manager.
- Teton County LEPC Chair will notify the Wyoming DEQ and SERC as a courtesy to ensure that the responsible party reported the spill as required by Code of Federal Regulation and State Rules.
- Teton County Emergency Management will notify the Wyoming Office of Homeland Security (WOHS) Duty Officer and advise if additional State resources are needed such as Regional Emergency Response Teams or the National Guard Civil Support Team (CST).

As per the Teton County/Town of Jackson EOP, Teton County Emergency Management (TCEM) is responsible for public alert and warning. Upon request from the hazardous materials incident's Incident Commander, TCEM can issue public alert and warning using information provided by incident experts. TCEM will determine the best routes to issue public alerts based on the nature of the incident. Those routes include:

- **Teton_WY Alerts powered by Everbridge:** Text message and email notifications to system subscribers
- **Social media:** Teton_WY Alerts powered by Everbridge will post to TCEM's Twitter and Facebook.
- **Google:** High-level "Alert" Teton_WY Alerts messages will appear in Google Maps, Google Search, and Google Now app. If community members have location services turned on and are in the polygon for the alert, Google apps will provide notifications.
- **Teton County Government Website:** Public alert scroll can be activated across all Teton County government websites. Also www.tcincident.org will be updated by TCEM with info.
- **Emergency Alert System (EAS):** Sends alert over local commercial broadcasters (Charter Cable, 89.1FM KHOL, 96.9FM KMTN, 93.5FM KJAX, 95.3FM KZJH, 1340AM KSGT, 104.3FM KJHB-LP) and NOAA All-Hazards Weather Radio
- **Wireless Emergency Alerts (WEA):** Sends text messages to all cell phones associated with Teton County cell towers. Phones do not need to be "subscribed" to service to receive message. Messages are unfortunately very short (90 or 360 characters, depending on the phone) and can contain short web links.
- **Outdoor Warning Sirens:** Designed to warn those that are outdoors that something is wrong, and they should seek further information from local media. Not all areas of the county are within range of outdoor warning sirens. Sirens at JHFEMS Station 1 and Teton Village are voice-capable with pre-recorded messages, including the following:

- Your attention please! A hazardous materials release has occurred. Go inside. Close all windows and doors. Turn off all ventilation systems. Repeat! A hazardous materials release has occurred. Go inside. Close all windows and doors. Turn off all ventilation systems. Tune to local radio, TV, or all-hazards weather radio for further information.
- **Emergency Vehicle Public Address Systems:** Loudspeaker announcements from emergency vehicles in affected areas can be used to relay protective measure instructions.

Teton County Sheriff's Office Dispatch is the backup for public alert and warning should TCEM be unavailable. Refer to the Teton County Alert, Warning, and Notification Plan for further details.

Emergency Response

Methods and procedures used to respond to the release of hazardous materials conform to the standards set in NFPA 470 (2022) - Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders. Methods and procedures will vary by responder training and competency (e.g. "Awareness," "Operations," "Technician," and "Specialist" designations for hazardous materials response). Emergency response methods and procedures may also incorporate location, jurisdiction, and agency specific standard operating procedures.

Reference will be made to current edition of NFPA 470 (2022) for details on response scope for training levels associated with hazardous materials response. Other NFPA guiding principles of response include:

- NFPA 475 (2002) – Recommended Practice for Organizing, Managing, and Sustaining a Hazardous Materials/Weapons of Mass Destruction Response Program
- NFPA 1072 (2002) – Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications.

At every incident, due diligence must be granted to tailoring organization of response and resources to the size of an incident. This organization will be based on the HAZARDOUS MATERIALS OPERATIONAL SYSTEM detailed in Appendix 1. Throughout all stages of emergency response **implementation and assurance of site safety is the first priority for all response agencies.**

Public Safety and Site Management

The primary objective of every hazardous materials response is the realistic protection of people at risk. This includes responders, employees of the affected facility and/or incident site, as well as citizens and visitors in the immediate area of the release and/or the projected plume. Protection of the public during a chemical emergency is a complex undertaking.

Planners, command staff, and operational personnel have several options to help facilitate protection of responders and public when confronted with hazardous materials emergencies.

Site management begins with implementation of the **Incident Command System**. A strong, organized and, centralized command structure supports sound risk management principles. Personnel in command roles must be conversant with NIMS/ICS terminology and functions.

Establishment of a command structure and identification of an incident command post help assure a safe approach. This is crucial for positioning incoming and on-site emergency response apparatus. Anticipation of numerous resources requires a staging area and manager as well.

Additional risk management and best practice principles include:

- securing an **isolation perimeter** around incident scene
- establishing **hazard control zones** to assure safe working areas
- considering need for immediate rescue
- utilizing law enforcement and security personnel for scene security and investigation
- early activation of additional support agencies (e.g. Public Health, sheltering, EOC, etc.)
- proper use of protective measures such as evacuation and/or shelter-in-place strategies

Incident Command is authorized through the Teton County/Town of Jackson Emergency Operations Plan (EOP) to order the protective measures (evacuation or shelter-in-place) appropriate to the type of threat, current weather conditions, condition of population at risk, response capabilities and timeliness, available transportation resources, time of day and ability to communicate with the at-risk population. Incident Command must keep in mind, however, that Wyoming is *not* a “mandatory evacuation” state. When dealing with public that refuses to leave after being provided adequate information as to the risk to their life, Incident Command should weigh doing the greatest good for the greatest number of people when allocating limited resources to evacuation. See [Section 2, Assumptions](#) for legal considerations when the public refuses to evacuate.

Regulated facilities should maintain facility response and evacuation plans for employees and visitors. **In accordance with EPCRA §304, facilities managers or designees should be prepared to provide the following emergency notification information:**

- The chemical name
- An indication of whether the substance is extremely hazardous
- An estimate of the quantity released into the environment
- The time and duration of the release
- Whether the release occurred into air, water, and/or land
- Any known or anticipated acute or chronic health risks associated with the emergency, and where necessary, advice regarding medical attention for exposed individuals
- Proper precautions, such as evacuation or sheltering in place
- Name and telephone number of contact person

Responder Safety

It is essential on-scene response personnel are protected from the adverse effects of hazardous materials contamination to safely perform their role in protecting the public and mitigating the incident. The safety of response personnel is a priority of the incident command system.

A **Safety Officer** will be appointed to the Command Staff to assist the Incident Commander (IC) with responder safety. If the IC does not appoint a Safety Officer for some reason, the IC assumes the responsibilities of the Safety Officer. The Safety Officer shall be assigned to monitor operations,

identify potential safety hazards, correct unsafe situations and develop additional methods and procedures to ensure responder safety. The Safety Officer will be given authority to alter, suspend or terminate any activity they deem is unsafe.

Safety Officers should be trained to the level of the incident, i.e., an operations level incident (gasoline spill) requires a Safety Officer trained to the operations level.

At escalating and large-scale incidents, an Assistant Safety Officer-Hazardous Materials must be appointed. This person coordinates safety related activities directly relating to the Hazardous Materials Group operations **as mandated by 29 CFR Part 1910.120** (See Appendix 1). This position will be appointed for all RERT activations, large spills (>55 gallons), and releases of EHSs.

Resource Management/Force Structure Assessment

Response and recovery resources available to Teton County and the Town of Jackson come from federal, state and local partners, public and private stakeholders, and nongovernmental organizations. During response operations, acquisition and deployment of resources will be managed by:

- standardized first unit deployment per agency protocols
- preexisting memorandums of understanding (MOUs), mutual aid agreements (MAAs), and interagency agreements (IAs)
- Wyoming Inter-County Mutual Aid Agreement (WICMAA) through TCEM
- contracts or through emergent contracting in accordance with established Teton County practices.

Jackson and Teton county maintain a fleet of fire and emergency response vehicles and equipment outfitted for all-hazards response across multiple operational periods. This equipment includes specialized monitoring, detection, and mitigation devices tailored for hazardous materials releases and incidents. Incident command and emergency management may also mobilize additional apparatus and specialized equipment (e.g. construction equipment, support apparatus, storage equipment) as judged necessary to meet exigencies of hazardous materials incidents.

Additionally, Jackson's Public Works maintains equipment and personnel that incident command and emergency management personnel can enlist to support mitigation and recovery efforts. Jackson's Public Works department will function within a standard incident command structure when mobilized.

Containment and Clean-Up

Containment and clean-up are parts of incident recovery. They are for all intents and purposes a single coordinated activity separate from actions conducted to mitigate an emergency during the response phase. Coordination of spill containment and clean-up is the responsibility of incident command or assigned designee, although legal/financial obligation will generally fall to facility and/or transportation company initially charged with control of hazardous material.

Objectives include:

- Request for appropriate resources
- Limit incident site entry to trained personnel with appropriate personal protective equipment

- Identify, contain, recover, and properly treat or remove hazardous materials and dispose of at state-permitted site
- Follow decontamination procedures to limit area of contamination and restrict further spread of hazardous materials
- Plan for restoration and mitigation of damage to the environment

Documentation and Investigation

Teton County response teams will have at a minimum a verbal Incident Action Plan (IAP) for hazardous materials responses lasting less than one operational period (12 hours or less). Incidents lasting more than a single operational period (over 12 hours) or those involving an EHS in excess of its RQ require a written IAP. A written IAP for an incident lasting 2 operational periods or less may consist of an ICS-201 Incident Briefing. Incidents lasting 3 or more operational periods must have a written IAP consisting of an ICS-202, ICS-203, ICS-204, ICS-205, ICS-206, and an ICS-208. Incidents requiring written ICS documentation and involving breaches, releases, etc. of hazardous materials in transportation require completion DOT Incident Report Form 5800.1 by the entity in physical possession of the shipment. This is in accordance with 49 CFR § 171.16.

In addition to the initial required emergency notification for chemicals with RQs, facilities must file a written follow-up notice to the SERC and LEPC as soon as practicable after the release. The follow-up notice must update information included in the initial notice and provide information on actual response actions taken and advice regarding medical attention necessary for citizens exposed. This is in accordance with 40 CFR § 355 Subpart C.

Documentation will also involve:

- Reports from local agency representatives involved in release response, mitigation, containment/clean-up.
- ICS forms
- After incident medical briefing for RERT/FEMS/LE personnel involved in contamination reduction zone (**WARM**) and/or exclusion zone (**HOT**) per OSHA 1910.120(f)
 - Report of additional medical surveillance screening for HAZMAT Team Members per OSHA 1910.120(f)(iv)
- Identify provisions for cost recovery, including methods for tracking costs
- Description of procedures for investigating possible criminal acts involving hazardous substances
 - What agencies must (or should) be part of criminal investigation?
- Description of methods of evaluating incident response
 - NFIRS
 - After Action Report (AAR) submitted and filed

IV: HAZARDOUS MATERIALS RESPONSE STRATEGIC AND TACTICAL CONSIDERATIONS

General

Best-practices for hazardous materials incident planning include structuring emergency response in accordance with the following hazardous materials strategic and tactical considerations.

Considerations included here are generalized benchmarks. Response agency protocols will provide detailed definitions and maneuvers where appropriate. Every response plan to a hazardous materials incident must be tailored to incident exigencies, available resources, and responder training.

Hazardous materials incidents rely on information gathering, exchange, and application. Organized collection, processing, and dissemination of information are crucial for overall incident safety and success.

An incident's Hazardous Materials Assistant Safety Officer, Hazardous Materials Group Supervisor, and Incident Commander must work in partnership to plot an appropriate response model.

Initial Response

Officers arriving on-scene at confirmed hazardous materials incident as "first-due" units will provide a complete size-up and carry-out initial actions.

Initial size-up may include providing:

- Defining criteria
 - occupancy/location
 - containers' shapes/sizes
 - marking/colors
 - labels/placards
 - type of chemical(s)
- Hazardous conditions upon arrival
 - types of container
 - container/systems failure
 - stress, breach, release, engulfment
 - container damage
 - crack/scour; gouge/dent; burn
- Other visual clues
 - clouds/plumes
 - fire/smoke
- Exposures
 - population(s)
 - special needs

Initial actions include:

- Determining/securing isolation perimeter
 - deny entry as necessary
- Estimating number of possible victims in area
- Localized evacuation and/or shelter-in-place

- Identification of product
- Estimation of hazards/conditions found
- Establishing emergency decontamination
- Initiation of ICS

Site Management and Control

Incidents that initial on-scene apparatus and personnel cannot mitigate to a common-sense standard of public and agency safety must evolve. Site management and control benchmarks offer guidance for hazardous materials planners and responders.

Site management and control actions include:

- Consider increased area of isolation (e.g. 1000 feet for toxic/flammable releases)
- Establish HAZMAT Group
- Request additional resources
 - Resource Unit Leader
 - Assistant Safety Officer – HAZMAT
 - Define roles for incoming agencies, based on ESF #10 (Primary) and supporting agencies
- Identify staging area and assign Staging Area Manager
- Identify transportation/relocation for evacuees
- If **protecting/sheltering in place**, consider immediate media brief
 - Public Information Officer should be involved early in the process
 - see Common Questions from Media for Hazardous Materials Incidents (Appendix 2)
- Identify **area of refuge**

Identify the Problem and Hazard/Risk Evaluation

Command and response personnel should utilize an adaptable, varied approach to problem identification at hazardous materials incidents.

- Survey surrounding conditions
 - identify endangered population(s)
 - gather data on weather and topography
 - feasibility of defensive or offensive reconnaissance
- Hazardous materials behavior/risks
 - HAZMAT Information/Research Technical Specialist
- Behavior event predictions
 - Tier II reporting, CAMEO, ALOHA, MARPLOT, PEAC-Web, PEAC-WMD
- Damage assessment
- Develop incident action plan (IAP)

Select Personal Protective Clothing and Equipment

Selection of incident-appropriate personal protective clothing (i.e. chemical protective clothing, CPC) must consider suit compatibility with known chemical hazard(s), predicted duration of operation, and personal protective clothing training and familiarity with selected ensemble. Additional criteria to consider include quantity of hazard spilled/released, airborne concentrations, and environmental conditions.

A summary of CPC selection principles include:

- Known versus unknown chemicals
- Probability of exposure
- Chemical hazards
- Chemical characteristics (e.g. state of matter; concentration)
- Physical hazards
- Personnel work functions
- Personnel work location
- Weather
- Training levels

Additional considerations for determining appropriate CPC ensembles also include:

- Evaluation of scene characteristics (e.g. chemistry of materials, behavior of damaged container, environmental influences)
- Need to preserve life safety
- Factors influencing incident stabilization
- Need and limitations of a requested/required protective actions

Resource Management

Hazardous materials incidents present planners, responders, and command personnel with an abundance of demands that require specialized resources. These specialized resources are both internal and external to the County. When multiple resources from several agencies are involved, it is highly recommended that a Resource Unit Leader is assigned to check-in and track resources.

- Internal (Requested by Incident Command from TCSO Dispatch)
 - Specially trained personnel
 - Special equipment/reference tracking
 - Chemical protective clothing
 - Spill/leak control equipment
 - Decontamination materials
 - Law Enforcement
 - Public/Environmental Health
 - Public Works
 - Pre-existing agency agreements
- External (Requested by Incident Command from Emergency Management)
 - Mutual Aid Agreements
 - Wyoming Inter-County Mutual Aid Agreement (WICMAA)
 - Consideration of State/Federal Agencies
 - Wyoming Regional Emergency Response Teams (RERT)
 - 84th Civil Support Team
 - USCG National Strike Team (Pacific Strike Team)
 - United States Environmental Protection Agency (Region #8)
 - Federal Bureau of Investigation—Hazardous Materials Response Unit
 - Department of Energy—Nuclear Emergency Support Team
 - Centers for Disease Control
 - Disaster Medical Assistance Team
 - Bureau of Alcohol, Tobacco, and Firearms

Implement Response Objectives

Implementation of response objectives should work towards the most favorable outcome of a hazardous materials incident. An incident commander and his staff must consider several factors:

- Prediction event behavior
 - General Hazardous Materials Behavior Model
- Mode of Operations
 - Offensive
 - Defensive
 - Non-interventional
- Realistic tactical objectives
 - Rescue
 - Public protective actions
 - Spill control
 - Leak control
 - Fire control
 - Non-engagement
 - Area control/isolation
 - Recovery

Decontamination

Decontamination operations fall under the direction of the Decontamination Strike Team Leader (see Appendix 1). The Decontamination Strike Team Leader, in conjunction with Hazardous Materials Group Supervisor, will formulate and implement applicable decontamination procedures in accordance with regulations defined in CFR 129. 1910.120(k), §1-5ii.

Teton County/Jackson Hole decontamination procedures for trained responders will conform to best practices established by the 2018/2019 2nd edition publication of *Primary Response Incident Scene Management (PRISM) Guidance for Chemical Incidents*. This three-volume publication “was written to provide authoritative, evidence-based guidance on mass casualty disrobe and decontamination during a chemical incident.”

PRISM guidance is based on scientific evidence gathered under a program of research sponsored by the Biomedical Advanced Research Development Agency (BARDA), a functional group under the auspices of the Department of Health and Human Services Medical Countermeasures information sharing network.

The program combined lab studies on the effects of water temperature, flow rate, detergents, and delayed decontamination with verification in human volunteer studies, using safe chemicals to simulate the dangerous contaminants. The guidance was developed with input from US first responders and agencies in 35 municipalities across 21 states.

This document is available in electronic format from www.medicalcountermeasures.gov.

Salient tactical and operational features of PRISM decontamination actions include:

- Evacuation of casualties/affected groups to safe distance
- Use of “snatch rescue” for non-ambulatory casualties by trained personnel supplied with appropriate PPE.
- Facilities/instruction for casualties to disrobe
- Use of improvised decontamination

- Gross (Ladder Pipe System) decontamination
- Facilities/instruction for casualties to utilize active drying
- Implementing technical/guided decontamination

Applicable Jackson Hole Fire/EMS and Wyoming Regional Emergency Response Team #8 protocols will detail steps involved in decontamination procedures.

A summary of actions follows.

Evacuation

Prompt, orderly movement away from hazardous areas is a key component of the initial response. Inappropriate or delayed evacuation may exacerbate exposure to hazardous chemicals and may have an adverse effect on subsequent operations. Trained Jackson/Teton County personnel will organize and attempt evacuation at all incidents based on resource availability, feasibility, and the assumption of acceptable risk.

Disrobe

The effectiveness of rapidly removing contaminated clothing in a safe manner cannot be overemphasized. Where judged necessary by trained personnel, disrobing will be encouraged. Logistics for disrobed casualties must be in order, especially for incidents occurring during temperature extremes and/or inclement weather.

Decontamination

While disrobing will remove most contamination, exposed areas will require decontamination to remove hazardous chemicals from the skin and hair. The process of decontamination can be divided into three forms:

- Improvised
 - Improvised decontamination is the immediate removal of contamination using any available means
 - Divided into “dry” and “wet”
 - **Dry** improvised decontamination is performed by blotting exposed skin and hair with any available absorbent material and should be the default option for improvised decontamination
 - **Wet** improvised decontamination should only be used when the contaminant is caustic (e.g. provokes immediate skin irritation) or particulate in nature
- Gross
 - involves the “ladder pipe system” whereby two fire pumps are used to produce a corridor through which casualties may be sprayed with large volumes of water mist
- Technical
 - requires the use of decontamination units and associated resources that need to be transported to and deployed at the scene of an incident
 - delayed availability of technical decontamination is compensated for by the use of improvised and gross decontamination

Active Drying

The act of drying the skin after showering is a key step in removing contaminants from the skin surface. It is important that this simple but effective process is performed in an appropriate manner

to prevent any further spread of contamination. Jackson/Teton county response community will attempt to supply through whatever reasonable means a sufficient supply of towels to facilitate this step in the decontamination process.

HazMat-CBRNE Medical Countermeasures

Combining the technical proficiency of NFPA 473, the clinical expertise of the World Health Organization's *Initial Clinical Management of Patients Exposed to Chemical Weapons* (http://www.who.int/environmental_health_emergencies/deliberate_events/en/), along with thorough local protocols and progressive medical direction, Teton County, the town of Jackson, Jackson Hole Fire/EMS, and Wyoming's Region #8 Emergency Response Team will act in concert as the AHJ to provide basic life support (**BLS**), advanced life support (**ALS**), and ALS mission-specific responsibilities to minimize, protect against, and counteract deleterious acute and chronic effects to hazardous materials incident exposures.

Law Enforcement and Security

Local, State, and Federal law enforcement agencies may respond to Hazardous Materials incidents. Depending on incident factors, law enforcement may be a partner in Unified Command or may participate as an assisting agency. Some functional responsibilities that may be handled by law enforcement include:

- Isolate the incident area
- Manage crowd control
- Manage traffic control
- Manage public protective action
- Provide scene management for on-highway incidents
- Manage criminal investigations
- Guide and assist in evidence collection

V: CONTACTS

Purpose

This section identifies the **agencies and functional roles** responsible for hazardous materials response coordination, support, and regulatory notification in Teton County and the Town of Jackson. To reduce maintenance requirements and support public release, this plan intentionally **does not include individual names or direct phone numbers**.

Current contact information is maintained through dispatch centers, emergency operations procedures, and agency-maintained contact lists. Operational partners are expected to use established notification pathways consistent with the Incident Command System (ICS) and the Teton County Emergency Operations Plan (TC-EOP).

Local Response and Coordination

The following agencies and roles support hazardous materials preparedness and response within Teton County and the Town of Jackson:

- **Jackson Hole Fire/EMS**
Primary hazardous materials response authority for the Town of Jackson and unincorporated Teton County; provides Incident Command and on-scene hazardous materials operations consistent with responder training and equipment.
- **Teton County Sheriff's Office – Dispatch**
Receives emergency notifications, initiates response, and supports interagency coordination.
- **Teton Interagency Dispatch Center (TIDC)**
Coordinates response and notifications for incidents occurring on federal lands, as applicable.
- **Teton County Emergency Management (TCEM)**
Provides coordination support, situational awareness, and EOC activation in accordance with the TC-EOP.
- **Local Law Enforcement Agencies**
Support scene security, evacuation, access control, and investigations as required.
- **Local Public Health and Medical Services**
Support medical response, exposure assessment, and public health coordination when hazardous materials incidents impact people.

State and Regional Support

The following agencies may provide technical assistance, regulatory oversight, or additional response resources when requested through appropriate coordination channels:

- **Wyoming Department of Environmental Quality (WY DEQ)**
Environmental assessment, regulatory coordination, and remediation oversight.
- **Wyoming Office of Homeland Security (WOHS)**
State-level coordination, resource support, and situational reporting.

- **Wyoming State Emergency Response Commission (SERC)**
Oversight of EPCRA implementation and coordination with Local Emergency Planning Committees.
- **Regional Emergency Response Team (RERT) 8**
Specialized hazardous materials response resources available upon request.
- **Applicable Federal Land Management Agencies**
Including, as applicable, the National Park Service, U.S. Forest Service, and U.S. Fish and Wildlife Service for incidents occurring within their respective jurisdictions.

Contact Information Management

Operational contact details, including 24-hour duty numbers and facility emergency contacts, are **maintained separately from this plan** and provided to authorized responders and partners through established dispatch systems, emergency management procedures, and agency-maintained contact lists.

This approach:

- Ensures accuracy of time-sensitive contact information
- Reduces the need for frequent plan updates
- Supports public release of the HMERP without redaction
- Remains consistent with EPCRA planning requirements and local response practices

Use During Incidents

During hazardous materials incidents:

- **Incident Command** is responsible for initiating notifications and managing on-scene operations.
- **Dispatch and EOC support**, when activated, facilitate coordination and regulatory notifications consistent with the TC-EOP.
- The **LEPC** supports preparedness, information sharing, and post-incident review and improvement, but does not direct response operations.

VI: TRAINING

Training related to hazardous materials response supports the effective implementation of this plan. The LEPC promotes and supports appropriate training for responders and stakeholders and uses training outcomes to inform planning discussions and capability assessments. Training activities help validate assumptions in this plan and identify opportunities for improvement but do not imply an operational training role for the LEPC. Below are minimum levels of training based on a responder's level of interaction with hazardous materials:

- **Individuals who are likely to witness or discover a hazardous substance release (fire, law enforcement and emergency medical personnel) are required to have the following training:**
 - **1910.120(q)(6)(i) — First responder awareness level.** First responders at the awareness level are individuals who are likely to witness or discover a hazardous substance release

and who have been trained to initiate an emergency response sequence by notifying the proper authorities of the release. They would take no further action beyond notifying the authorities of the release.

First responders at the awareness level shall have sufficient training or have sufficient experience to objectively demonstrate competency in the following areas:

- 1910.120(q)(6)(i)(A) – An understanding of what hazardous substances are, and the risks associated with them in an incident
- 1910.120(q)(6)(i)(B) – An understanding of the potential outcomes associated with an emergency created when hazardous substances are present
- 1910.120(q)(6)(i)(C) – The ability to recognize the presence of hazardous substances in an emergency
- 1910.120(q)(6)(i)(D) – The ability to identify the hazardous substances, if possible
- 1910.120(q)(6)(i)(E) – An understanding of the role of the first responder awareness individual in the employer's emergency response plan including site security and control and the U.S. Department of Transportation's Emergency Response Guidebook
- 1910.120(q)(6)(i)(F) – The ability to realize the need for additional resources, and to make appropriate notifications to the communication center

Those who respond to releases or potential releases of hazardous substances as part of the initial response to the site are required to have the following *minimum* training:

- **1910.120(q)(6)(ii) — *First responder operations level.*** First responders at the operations level are individuals who respond to releases or potential releases of hazardous substances as part of the initial response to the site for the purpose of protecting nearby persons, property, or the environment from the effects of the release. They are trained to respond in a defensive fashion without trying to stop the release. Their function is to contain the release from a safe distance, keep it from spreading, and prevent exposures. First responders at the operational level shall have received at least eight hours of training or have had sufficient experience to objectively demonstrate competency in the following areas in addition to those listed for the awareness level and the employer shall certify:
 - 1910.120(q)(6)(ii)(A) – Knowledge of the basic hazard and risk assessment techniques
 - 1910.120(q)(6)(ii)(B) – Know how to select and use proper personal protective equipment provided to the first responder operational level
 - 1910.120(q)(6)(ii)(C) – An understanding of basic hazardous materials terms
 - 1910.120(q)(6)(ii)(D) – Know how to perform basic control, containment and/or confinement operations within the capabilities of the resources and personal protective equipment available with their unit
 - 1910.120(q)(6)(ii)(E) – Know how to implement basic decontamination procedures
 - 1910.120(q)(6)(ii)(F) – An understanding of the relevant standard operating procedures and termination procedures

Additional response personnel with *Hazardous Materials Technician* training (1910.120(q)(6)(iii)) can be activated by requesting Regional Emergency Response Team(s) (RERT's) through local Jackson Hole Fire/EMS or WOHS Duty Officers.

- **Those who respond with and provide support to hazardous materials technicians are required to have the following training:**
 - **1910.120(6)(6)(iv) — *Hazardous materials specialist.*** Hazardous materials specialists are individuals who respond with and provide support to hazardous materials technicians. Their duties parallel those of the hazardous materials technician; however, those duties require a more directed or specific knowledge of the various substances they may be called upon to contain. The hazardous materials specialist would also act as the site liaison with Federal, state, local and other government authorities regarding site activities. Hazardous materials specialists shall have received at least 24 hours of training equal to the technician level and in addition have competency in the following areas and the employer shall so certify:
 - 1910.120(q)(6)(iv)(A) – Know how to implement the local emergency response plan
 - 1910.120(q)(6)(iv)(B) – Understand classification, identification and verification of known and unknown materials by using advanced survey instruments and equipment
 - 1910.120(q)(6)(iv)(C) – Know the state emergency response plan
 - 1910.120(q)(6)(iv)(D) – Be able to select and use proper specialized chemical personal protective equipment provided to the hazardous materials specialist
 - 1910.120(q)(6)(iv)(E) – Understand in-depth hazard and risk techniques
 - 1910.120(q)(6)(iv)(F) – Be able to perform specialized control, containment, and/or confinement operations within the capabilities of the resources and personal protective equipment available
 - 1910.120(q)(6)(iv)(G) – Be able to determine and implement decontamination procedures
 - 1910.120(q)(6)(iv)(H) – Have the ability to develop a site safety and control plan
 - 1910.120(q)(6)(iv)(I) – Understand chemical, radiological and toxicological terminology and behavior
- **Those who will assume control of the incident scene beyond the first responder awareness level are required to have the following training:**
 - **1910.120(q)(6)(v)– *On scene incident commander.*** Incident commanders, who will assume control of the incident scene beyond the first responder awareness level, shall receive at least 24 hours of training equal to the first responder operations level and in addition have competency in the following areas and the employer shall certify:
 - 1910.120(q)(6)(v)(A) – Know and can implement the employer's incident command system
 - 1910.120(q)(6)(v)(B) – Know how to implement the employer's emergency response plan
 - 1910.120(q)(6)(v)(C) – Know and understand the hazards and risks associated with employees working in chemical protective clothing

- 1910.120(q)(6)(v)(D) – Know how to implement the local emergency response plan
- 1910.120(q)(6)(v)(E) – Know of the state emergency response plan and of the Federal Regional Response Team
- 1910.120(q)(6)(v)(F) – Know and understand the importance of decontamination procedures

VII: EXERCISES

Hazardous materials exercises are conducted to validate response coordination, notification procedures, and decision-making processes described in this plan. Exercises may be conducted as standalone hazardous materials exercises or incorporated into broader Teton County Emergency Operations Plan exercises. The LEPC participates as a convener and evaluator and uses exercise outcomes to inform plan maintenance and improvement.



Figure 4 – Progressive Exercise Program

Teton County’s LEPC must conduct an **annual** hazardous materials exercise that involves this plan. At a minimum, this annual evaluation will test the effectiveness and feasibility of the plan and supporting standard operating procedures. Annual exercises also assess as the readiness of response agencies, facilities and the public. Exercises may be discussion-based (seminars, workshops, tabletops and games) or operation-based (drills, functional, and full-scale).

Teton County’s Local Emergency Planning Committee and all involved agencies will follow the **Homeland Security Exercise and Evaluation Program (HSEEP)** as a standard for exercise design, conduct, and evaluation. Pursuant to the HSEEP, exercises will be documented in an after-action report. Corrective actions will be identified and assigned in an improvement plan.

Exercise scheduling will be recorded and updated annually per USC Title 42 Chapter 116 Subchapter I Section 11003(c)(9). Scheduling will be made in conjunction with applicable local emergency management partners and stakeholders.

Exercise documentation will be kept on file with the Teton County LEPC.

VIII: EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA)

EPCRA Overview

The Emergency Planning and Community Right-to-Know Act (EPCRA) was passed in 1986 in response to concerns regarding the environmental and safety hazards posed by the storage and handling of toxic chemicals. These concerns were triggered by the 1984 disaster in Bhopal, India, caused by an accidental release of methylisocyanate. The release killed or severely injured more than 2000 people.

To reduce the likelihood of such a disaster in the United States, Congress imposed requirements for federal, state and local governments, tribes, and industry. These requirements covered emergency planning and "Community Right-to-Know" reporting on hazardous and toxic chemicals. The Community Right-to-Know provisions help increase the public's knowledge and access to information on chemicals at individual facilities, their uses, and releases into the environment. States and communities, working with facilities, can use the information to improve chemical safety and protect public health and the environment.

The LEPC provides a forum for public participation in hazardous materials planning and community right-to-know activities. LEPC meetings are open to the public, and information requests are handled in accordance with EPCRA and applicable federal, state, and local requirements. Public information is provided in a manner that supports transparency while considering safety and security concerns.

EPCRA Reporting

All facilities within Teton County receiving, storing and/or using hazardous materials (defined as materials that require SDS sheets by OSHA) in excess of 500 pounds or TPQ whichever is less for Extremely Hazardous Substances (EHSs); gasoline greater than or equal to 75,000 gallons (all grades combined); diesel greater than or equal to 100,000 gallons (all grades combined); or 10,000 pounds for all other hazardous chemicals are required to submit a **Tier II** report annually by March 1. Currently, the Wyoming SERC uses an online portal for reporting available here <https://wyo.tier-riportal.aristatek.com/>. The SERC then makes this information available to local LEPCs and Fire Departments, meeting a facility's requirement to submit a Tier II report annually to the LEPC, SERC, and local fire department. If a facility has issue with this system or doesn't get receipt of submission, they should notify the Teton LEPC.

Facilities must submit current Safety Data Sheets (SDS) and/or a list of the hazardous chemicals present on-site in more than threshold levels to the SERC, LEPC and local fire department/district in accordance with Section 311.

Any facility that has an EHS at or above its threshold planning quantity (TPQ) must notify the SERC and Teton LEPC within 60 days after they first receive a shipment or produce the substance on site.

A facility must notify the SERC and LEPC, per Section 304, of a release at the facility more than the reportable quantity for the substance and when the release could result in exposure of person outside the facility. A verbal report must be submitted immediately and followed with a written report within 14 days.

For additional information, consult the most recent release of Wyoming's SERC rules and the EPA's EPCRA website <https://www.epa.gov/epcra>, which has links to the EPA's Consolidated List of Lists. This document lists substances defined as EHSs and lists their TPQs and RQs.

EPCRA Community Right-To-Know

Members of the public with a demonstrable need may make requests to the Teton County LEPC to learn more about the reported hazardous materials that are stored or used by a facility. Requests for Tier II information must include the following:

- Name, address, email address, and phone number of the requestor
- Reason for the request / statement of need for the information
- Facility name and physical address
- Information requested on the facility

Requests for EPCRA Tier II facility information should be sent to the Teton County LEPC at lepc@tetoncountywy.gov or mailed to:

Teton LEPC
PO Box 4458
Jackson, WY 83001

The Teton LEPC Chair will review requests and if they are valid, the following can be provided to the requestor:

- Name and contact information for facility manager
- Reported chemicals stored on site for the current Tier II reporting year (e.g. in the year 2017, data for calendar year 2016 is held by the LEPC)
- Safety Data Sheets (SDS) that may be on file for reported chemicals

The Teton LEPC Chair will notify the LEPC at the next regularly scheduled meeting of any public Tier II requests and their status.

The requestor must have a need to obtain this information, such as having a place of residence or work near the facility. Blanket requests for facility information will not be approved. Examples include:

- Every facility in “x” geographic area
- All facilities with “x” chemical
- All facilities owned by “x” company

Teton County LEPC maintains the most current year of Tier II reports on facilities and does not provide historical reports. The Teton County LEPC may forward Tier II information requests to the Wyoming SERC if there are questions as to the reasonable statement of need or other legal issues.

IX: Resources

- [Tier2 Submit Software](#)
- [CAMEO](#)
- [EPA List of Lists](#)
- [National Response System](#)
- [EPA Regional Contacts](#)



- [US Chemical Safety Board](#)
- [Pipeline and Hazardous Materials Safety Administration](#)
- [Hazardous Materials Cooperative Research Program \(HMCRP\) Reports](#)
- [Emergency Response Guidebook \(ERG\)](#)
- [PEAC WEB from Aristatek](#)
- [CAMEO Chemicals](#)

X: TERMINOLOGY

Terms not defined in this section are used consistent with the definitions and usage contained in the Teton County Emergency Operations Plan (TC-EOP).

CASRN: Chemical Abstracts Service Registry Number. Numbers are assigned to toxic or hazardous substances.

CERCLA: Comprehensive Emergency Response, Compensation, and Liability Act regarding the cleanup of uncontrolled hazardous waste sites and response to releases of hazardous substances

Chemical Name: The scientific designation of a chemical in accordance with the nomenclature system developed by the International Union of Pure and Applied Chemistry (IUPAC) or the Chemical Abstracts Service (CAS) rules of nomenclature, or a name which will clearly identify the chemical for conducting a hazard evaluation

CHEMNET: A mutual aid network of chemical shippers and contractors. CHEMNET has more than fifty participating companies with emergency teams, twenty-three subscribers (who receive services in an incident from a participant and then reimburse response and cleanup costs), and several emergency response contractors. CHEMNET is activated when a member shipper cannot respond promptly to an incident involving that company's product(s) and requiring the presence of a chemical expert. If a member company cannot go to the scene of the incident, the shipper will authorize a CHEMNET-contracted emergency response company to go. Communications for the network are provided by CHEMTREC, with the shipper receiving notification and details about the incident from the CHEMTREC communicator.

CHEMTREC: Chemical Transportation Emergency Center operated by the Chemical Manufacturers Association. This center provides information and assistance to emergency responders of toxic substance releases. CHEMTREC may contact the shipper or producer of the material for more detailed information and can be reached 24 hours a day by calling (800) 424-9300.

CHLOREP: Chlorine Emergency Plan operated by the Chlorine Institute. A 24-hour mutual aid program. Response is activated by a CHEMTREC call to the designated CHLOREP contact, who notifies the appropriate team leader, based upon CHLOREP's geographical sector assignments for teams. The team leader in turn calls the emergency caller at the incident scene and determines what advice and assistance are needed. The team leader then decides whether to dispatch his team to the scene.

CHRIS/HACS: Chemical Hazards Response Information System/Hazard Assessment Computer System developed by the U.S. Coast Guard. HACS is a computerized model of the four CHRIS manuals that contain chemical-specific data. Federal On-Scene Coordinators (OSCs) use HACS to find answers to specific questions during a chemical spill or response. State and local officials

and industry representatives may ask an OSC to request a HACS run for contingency planning purposes.

EPCRA: The Emergency Planning and Community Right-to-Know Act (EPCRA) was passed in 1986 in response to concerns regarding the environmental and safety hazards posed by the storage and handling of toxic chemicals. These concerns were triggered by the 1984 disaster in Bhopal, India, caused by an accidental release of methylisocyanate. The release killed or severely injured more than 2000 people.

Extremely Hazardous Substances: The EHS list was first compiled by EPA, and subsequently incorporated into EPCRA, to identify chemicals that could cause serious irreversible health effects from accidental releases. EHSs are listed in 40 CFR Part 355.

Facility: All buildings, equipment, structures, and other stationary items which are located on a single site or on adjacent sites and which are owned or operated by the same person or persons

Fault-Tree Analysis: A means of analyzing hazards. FTA is a top-down, deductive analysis of system failure. Using Boolean logic, FTA analyzes undesired causes of a system failure. All combinations of individual failures that can lead to that hazardous event are shown in the logical format of the fault tree. By estimating the individual failure probabilities ("events") the top-event frequency can be calculated.

Hazardous Chemicals: Those chemicals which are a physical hazard or a health hazard

Hazardous Materials: Refers generally to hazardous substances, petroleum, natural gas, synthetic gas, acutely toxic chemicals, and other toxic chemicals

HAZOP: Hazard and operability study, a systematic technique for identifying hazards or operability problems throughout an entire facility.

Health Hazard: A chemical for which there is statistically significant evidence that acute or chronic health effects may occur in exposed employees. The term "health hazard" includes chemicals which are carcinogens, toxic or highly toxic agents, reproductive toxins, irritants, corrosives, sensitizers, hepatotoxins, nephrotoxins, neurotoxins, agents which act on the hematopoietic system, and agents which damage the lungs, skin, eyes, or mucous membranes. Health hazards often require medical countermeasures by on-scene responders.

Mixture: Any combination of two or more chemicals if the combination is not, in whole or in part, the result of a chemical reaction

MSDS/SDS: Material Safety Data Sheet/SDS, which under the Occupational Safety and Health Act, facilities having or utilizing toxic chemicals must submit a MSDS for each chemical, to local and state officials regarding their physical and health hazards.

NCP: National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR Part 300), prepared by EPA to put into effect the response powers and responsibilities created by CERCLA and the authorities established by Section 311 of the Clean Water Act

NRT: National Response Team, consisting of representatives of 14 government agencies (DOD, DOI, DOT/RSPA, DOT/USCG, EPA, DOC, FEMA, DOS, USDA, DOJ, HHS, DOL, Nuclear Regulatory Commission, and DOE), is the principal organization for implementing the NCP. When the NRT is not activated for a response action, it serves as a standing committee to develop and maintain preparedness, to evaluate methods of responding to discharges or releases, to recommend needed changes in the response organization, and to recommend revisions to the NCP. The NRT may consider and make recommendations to appropriate agencies on the training, equipping, and protection of response teams; and necessary research, development, demonstration, and evaluation to improve response capabilities.

NSF: National Strike Force, made up of three Strike Teams. The USCG counterpart to the EPA ERTs.

NUREG 0654/FEMA-REP-1: Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants, prepared by NRC and FEMA. Provides a basis for state and local government and nuclear facility operators to develop radiological emergency plans and improve emergency preparedness. The criteria also will be used by federal agency reviewers in determining the adequacy of state, local, and nuclear facility emergency plans and preparedness.

Physical Hazard: A chemical for which there is scientifically valid evidence that it is a combustible liquid, a compressed gas, explosive, flammable, an organic peroxide, an oxidizer, pyrophoric, unstable (reactive) or water-reactive

RCRA: Resource Conservation and Recovery Act which establishes a framework for the proper management and disposal of all wastes

Release: Any spilling, leaking, pumping, pouring, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment

RERT: Regional Emergency Response Teams. These regional teams are administered by the Wyoming Office of Homeland Security and have varying hazardous materials, explosives, confined space, and other specialized response training. Teton County's team is Region 8.

RQ: Reportable Quantity, which is the minimum quantity of a chemical a facility may have before having to notify local and state officials

SARA: The Superfund Amendments and Reauthorization Act of 1986. Title III of SARA includes detailed provisions for community planning.

Superfund: The trust fund established under CERCLA to provide money the OSC can use during a cleanup

Specific Chemical Identity: The chemical name, chemical abstracts service registry number (CASRN), or any other information that reveals the precise chemical designation of the substance

Tier II Form - Submission of Tier II form is required under Section 312 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). The purpose of this form is to provide State, local officials, and the public with specific information on potential hazards. This includes the locations, as well as the amount of hazardous chemicals present at your facility during the previous calendar year.

Title III: The Emergency Planning and Community Right-to-Know Act of 1986. This act specifies requirements for organizing the planning process at the state and local levels for specified hazardous substances. This act also specifies minimum plan content, requirements for facility owners and operators to notify officials of extremely hazardous substances present at the facilities, and mechanisms for making information available to citizens. In addition, the law requires disclosure of information about the presence of hazardous chemicals in the community.

TPQ: Threshold Planning Quantity. To determine whether the facility has an amount of an extremely hazardous substance which equals or exceeds the TPQ, the owner or operator must determine the total amount of an extremely hazardous substance present at a facility at any one time, regardless of location, number of containers, or method of storage. This calculation must also consider the amount of an extremely hazardous substance present in mixtures or solutions more than one percent and should include examination of such process components as reaction vessels, piping, etc., where formation of an EHS as a byproduct may take place.

APPENDIX A: HAZARDOUS MATERIALS OPERATIONAL SYSTEM

The organizational diagrams and operational concepts in this appendix depict on-scene hazardous materials response using the Incident Command System. EOC coordination and Emergency Support Function support are conducted separately in accordance with the Teton County Emergency Operations Plan and are not shown in these diagrams.

The **Hazardous Materials Operational System** provides Jackson and Teton County's responders guidance for instituting organizational structure necessary for essential supervision and control at nearly all hazardous materials incidents. Controlling the tactical operations of personnel and equipment will provide a greater degree of safety and reduce the probability of spreading contaminants. The Hazardous Materials Group Supervisor or the Hazardous Materials Branch Director (**if activated**) will direct primary functions. These positions will report to an identified ICS position. All resources having direct involvement with the hazardous material will be supervised by one of the functional leaders or by the Hazardous Materials Group Supervisor.

POSITION CHECKLISTS

COMMON RESPONSIBILITIES

The following is a checklist applicable to all ICS personnel:

- a. Receive assignment from your agency
- b. Upon arrival at the incident, check in at designated Check-in location.
- c. Receive briefing from immediate supervisor.
- d. Acquire work materials.
- e. Conduct all tasks in a manner that ensures safety and welfare of you and your co-workers utilizing accepted risk analysis methods.
- f. Organize and brief subordinates.
- g. Know the assigned frequency/frequencies for your area of responsibility and ensure that communication equipment is operating properly.
- h. Use clear text and ICS terminology (no codes) in all radio communications.
- i. Complete forms and reports required of the assigned position and send through supervisor to Documentation Unit.
- j. Respond to demobilization orders and brief subordinates regarding demobilization.

UNIT LEADER RESPONSIBILITIES

Many of the Unit Leader responsibilities are common to all units in all parts of the organization. Common responsibilities of Unit Leaders are listed below. These will not be repeated in Unit Leader Position Checklists in subsequent chapters:

- a. Participate in incident planning meetings as required.
- b. Determine status of unit activities.
- c. Confirm dispatch and estimated time of arrival of staff and supplies.
- d. Assign specific duties to staff and supervise staff.
- e. Develop and implement accountability, safety, security, and risk management measures for personnel and resources.
- f. Supervise demobilization of unit, including storage of supplies.
- g. Provide Supply Unit Leader with a list of supplies to be replenished.
- h. Maintain unit records, including Unit/Activity Log (ICS Form 214)

HAZARDOUS MATERIALS GROUP SUPERVISOR

The Hazardous Materials Group Supervisor or Hazardous Materials Branch Director reports to the Operations Section Chief. This ICS position is responsible for the implementation of the phases of the Incident Action Plan dealing with the Hazardous Materials Group operations. This ICS position is responsible for the assignment of resources within the Hazardous Materials Group, reporting on the progress of control operations and the status of resources within the group. This ICS position directs the overall operations of the Hazardous Materials Group:

- Review Common Responsibilities.
- Ensure the development of Control Zones and Access Control Points and the placement of appropriate control lines.
- Evaluate and recommend public protection action options to the Operations Chief or Branch Director (if activated).
- Ensure that current weather data and future weather predictions are obtained.
- Establish environmental monitoring of the hazard site for contaminants.
- Ensure that a Site Safety and Control Plan (ICS Form 208) is developed and implemented.
- Conduct safety meetings with the Hazardous Materials Group.
- Participate, when requested, in the development of the Incident Action Plan.
- Ensure that recommended safe operational procedures are followed.
- Ensure that the proper Personal Protective Equipment is selected and used.
- Ensure that the appropriate agencies are notified through the Incident Commander.

- Maintain Unit/Activity Log (ICS Form 214).

ENTRY LEADER

Reports to the Hazardous Materials Group Supervisor. The Entry Leader is responsible for the overall entry operations of assigned personnel within the Exclusion Zone:

- Review Common Responsibilities.
- Supervise entry operations.
- Recommend actions to mitigate the situation within the Exclusion Zone.
- Carry out actions, as directed by the Hazardous Materials Group Supervisor, to mitigate the hazardous materials release or threatened release.
- Maintain communications and coordinate operations with the Decontamination Leader.
- Maintain communications and coordinate operations with the Site Access Control Leader and the Safe Refuge Area Manager (if activated).
- Maintain communications and coordinate operations with Technical Specialist-Hazardous Materials Reference.
- Maintain control of the movement of people and equipment within the Exclusion Zone, including contaminated victims.
- Direct rescue operations, as needed, in the Exclusion Zone.
- Maintain Unit/Activity Log (ICS Form 214).

DECONTAMINATION LEADER

Reports to the Hazardous Materials Group Supervisor. The Decontamination Leader is responsible for the operations of the decontamination element, providing decontamination as required by the Incident Action Plan:

- Review Common Responsibilities.
- Establish the Contamination Reduction Corridor(s).
- Identify contaminated people and equipment.
- Supervise the operations of the decontamination element in the process of decontaminating people and equipment.
- Control the movement of people and equipment within the Contamination Reduction Zone.
- Maintain communications and coordinate operations with the Entry Leader.
- Maintain communications and coordinate operations with the Site Access Control Leader and the Safe Refuge Area Manager (if activated).
- Coordinate the transfer of contaminated patients requiring medical attention (after decontamination) to the Medical Group.

- Coordinate handling, storage, and transfer of contaminants within the Contamination Reduction Zone.
- Maintain Unit/Activity Log (ICS Form 214).

SITE ACCESS CONTROL LEADER

Reports to the Hazardous Materials Group Supervisor. The Site Access Control Leader is responsible for the control of the movement of all people and equipment through appropriate access routes at the hazard site and ensures that contaminants are controlled, and records are maintained:

- Review Common Responsibilities.
- Organize and supervise assigned personnel to control access to the hazard site.
- Oversee the placement of the Exclusion Control Line and the Contamination Control Line.
- Ensure that appropriate action is taken to prevent the spread of contamination.
- Establish the Safe Refuge Area within the Contamination Reduction Zone. Appoint a Safe Refuge Area Manager (as needed).
- Ensure that injured or exposed individuals are decontaminated prior to departure from the hazard site.
- Track the movement of persons passing through the Contamination Control Line to ensure that long-term observations are provided.
- Coordinate with the Medical Group for proper separation and tracking of potentially contaminated individuals needing medical attention.
- Maintain observations of any changes in climatic conditions or other circumstances external to the hazard site.
- Maintain communications and coordinate operations with the Entry Leader.
- Maintain communications and coordinate operations with the Decontamination Leader.
- Maintain Unit/Activity Log (ICS Form 214).

ASSISTANT SAFETY OFFICER - HAZARDOUS MATERIALS

Reports to the incident Safety Officer as an Assistant Safety Officer and coordinates with the Hazardous Materials Group Supervisor or Hazardous Materials Branch Director. The Assistant Safety Officer-Hazardous Materials coordinates safety related activities directly relating to the Hazardous Materials Group operations *as mandated by 29 CFR Part 1910.120*. This position advises the Hazardous Materials Group Supervisor (or Hazardous Materials Branch Director) on all aspects of health and safety and has the authority to stop or prevent unsafe acts. *It is mandatory that an Assistant Safety Officer-Hazardous Materials be appointed at all hazardous materials incidents of sufficient complexity and/or requiring multiple operational periods.*

- Review Common Responsibilities.
- Obtain briefing from the Hazardous Materials Group Supervisor.
- Participate in the preparation of and implement the Site Safety and Control Plan (ICS Form 208).
- Advise the Hazardous Materials Group Supervisor (or Hazardous Materials Branch Director) of deviations from the Site Safety and Control Plan (ICS Form 208) or any dangerous situations.
- Has authority to alter, suspend, or terminate any activity that may be judged to be unsafe.
- Ensure the protection of the Hazardous Materials Group personnel from physical, environmental, and chemical hazards/exposures.
- Ensure the provision of required emergency medical services for assigned personnel and coordinate with the Medical Unit Leader.
- Ensure that medical related records for the Hazardous Materials Group personnel are maintained.
- Maintain Unit/Activity Log (ICS Form 214).

TECHNICAL SPECIALIST - HAZARDOUS MATERIALS REFERENCE

Reports to the Hazardous Materials Group Supervisor (or Hazardous Materials Branch Director, if activated). This position provides technical information and assistance to the Hazardous Materials Group using various reference sources such as computer databases, technical journals, CHEMTREC, and phone contact with facility representatives. The Technical Specialist-Hazardous Materials Reference may provide product identification using hazardous categorization tests and/or any other means of identifying unknown materials:

- Review Common Responsibilities.
- Obtain briefing from the Planning Section Chief or assigned supervisor.
- Provide technical support to the Hazardous Materials Group Supervisor.
- Maintain communications and coordinate operations with the Entry Leader.
- Provide and interpret environmental monitoring information.
- Provide analysis of hazardous material sample.
- Determine personal protective equipment compatibility to hazardous material.
- Provide technical information about the incident for documentation.
- Provide technical information management with public and private agencies i.e.: Poison Control Center, Toxicology Center, CHEMTREC, State Department of Food and Agriculture, National Response Team.



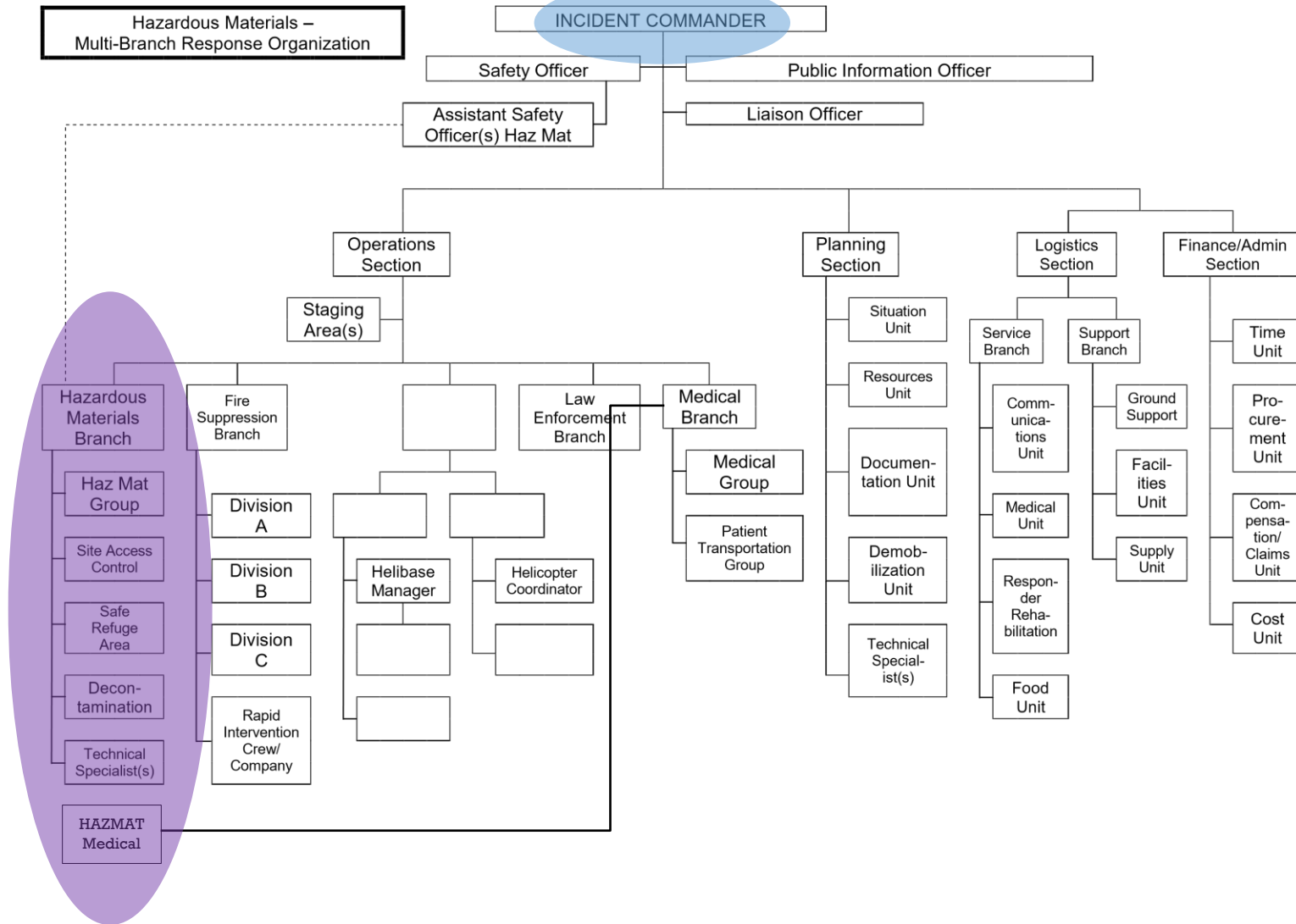
- Assist Planning Section with projecting the potential environmental effects of the release.
- Maintain Unit/Activity Log (ICS Form 214).

SAFE REFUGE AREA MANAGER

The Safe Refuge Area Manager reports to the Site Access Control Leader and coordinates with the Decontamination Leader and the Entry Leader. The Safe Refuge Area Manager is responsible for evaluating and prioritizing victims for treatment, collecting information from the victims, and preventing the spread of contamination by these victims. If there is a need for the Safe Refuge Area Manager to enter the Contamination Reduction Zone to fulfill assigned responsibilities, appropriate Personal Protective Equipment shall be worn:

- Review Common Responsibilities.
- Establish the Safe Refuge Area within the Contamination Reduction Zone adjacent to the Contamination Reduction Corridor and the Exclusion Control Line.
- Monitor the hazardous materials release to ensure that the Safe Refuge Area is not subject to exposure.
- Assist the Site Access Control Leader by ensuring the victims are evaluated for contamination.
- Manage the Safe Refuge Area for the holding and evaluation of victims who may have information about the incident, or if suspected of having contamination.
- Maintain communications with the Entry Leader to coordinate the movement of victims from the Refuge Area(s) in the Exclusion Zone to the Safe Refuge Area.
- Maintain communications with the Decontamination Leader to coordinate the movement of victims from the Safe Refuge Area into the Contamination Reduction Corridor, if needed.
- Maintain Unit/Activity Log (ICS Form 214).

Figure 5 – Hazardous Materials Branch Organizational Chart



APPENDIX B: COMMON QUESTIONS FROM MEDIA REGARDING HAZARDOUS MATERIALS INCIDENTS

Public information related to hazardous materials incidents is coordinated through Incident Command. When the EOC is activated, external communications are coordinated in accordance with the Teton County Emergency Operations Plan and ESF #15. Spokespersons are designated based on incident needs and organizational roles.

When dealing with the media at a hazmat incident, certain types of questions should be anticipated. Many of these questions can be addressed prior to an incident and assembled into a HazMat Fact Sheet.

- I. The Incident
 - a. What is the nature of the emergency?
 - b. How many injuries? Fatalities? What is the nature of the injuries and fatalities?
 - c. How many people were evacuated from the facility? Within the community?
 - d. How is the surrounding environment affected?
 - e. Have similar incidents occurred in the past?
- II. The Hazardous Material(s) Involved
 - a. What hazmat(s) are involved in the emergency?
 - b. Is it a solid, liquid, or gas?
 - c. What are the public health implications?
 - d. What quantity was released?
 - e. Are there other extremely hazardous substances (EHS's?) stored, manufactured, or used within the facility?
- III. The Facility
 - a. Does the facility have an Emergency Response Plan?
 - b. Has the facility participated in the Local Emergency Planning Committee (LEPC) and the development of the community Emergency Response Plan?
 - c. Has the facility and/or community conducted a risk assessment of the potential threat posed by the facility to the community?
- IV. Meteorological Conditions and Factors
 - a. What are the current temperature, wind velocity, and humidity conditions?
 - b. Are they considered favorable or unfavorable as they affect the spread of the hazmat?
 - c. What are the immediate and short-term weather forecasts?
 - d. Will the changes affect the dispersion of the hazmat?

V. Physical Surroundings

- a. Will terrain and ground contour around the incident site affect the hazmat dispersion in any manner?
- b. Are there nearby population centers that might be a risk, such as the schools, hospitals, shopping centers, etc.?
- c. Will nearby residents be evacuated or sheltered in place? What are the criteria for making this decision?

VI. Health Risks

- a. By what routes are humans exposed to the chemical (inhalation, ingestion, absorption, contact)?
- b. What are the potential health effects? Are these effects acute or chronic?
- c. Are population groups particularly susceptible?
- d. Can the hazmat(s) involved react with other hazardous materials in the facility or in the area?

VII. Post-Incident Follow-up Questions

- a. What types of safeguards were in place?
- b. What did the facility have to report under any of the sections of SARA Title III? Did it submit reports?
 - i. Section 302-Presence of Extremely Hazardous Substance
 - ii. Section 304-Accidental Releases and Emergency Notifications
 - iii. Section 311-Hazardous Chemicals MSDS? Or Lists?
 - iv. Section 312-Tier II Emergency & Hazardous Chemical Inventory
 - v. Section 313-Toxic Chemical Release Form
- c. Does the facility and/or community have equipment or instruments to detect and track a release?
- d. What types of emergency response equipment does the facility and/or community have?
- e. Does the facility know of any possible substitute which could be used for the hazardous materials released? What environmental and health issues are posed by these substitutes? What are the economic issues involved in using substitutes?

This information is from the textbook, Chemicals, The Press & The Public.