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EF 10 – Hazardous Materials

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EF 10 Tasked Agencies	
Primary Agencies	Shasta Cascade Hazardous Materials Response Team (Type 2)
Supporting Agencies	Shasta County Resource Management - Environmental Health Division Butte County Regional Hazardous Materials Response Team Health and Human Services Agency – Public Health California Highway Patrol
Primary State Agencies	California Environmental Protection Agency, Department of Toxic Substances Control California Governor’s Office of Emergency Services, Fire and Rescue Division, Hazardous Materials Section

1 Purpose and Scope

Emergency Function (EF) 10 provides for response to and recovery from hazardous material releases, including oil spills. This support function is applicable to all types and sizes of hazardous materials incidents potentially involving transportation corridors (railway, highway, marine); abandoned waste sites; pipelines; tank farms; and fixed facilities (chemical plants, laboratories, operating hazardous waste sites, hospitals, etc.).

As a Certified Unified Program Agency, the Shasta County (County) Environmental Health Division is responsible for implementing all the unified programs within its jurisdiction. These programs include hazardous materials business plan, hazardous waste generator, hazardous waste on-site treatment, underground storage tanks, California Accidental Release Prevention Program, and aboveground storage tanks containing petroleum products. For more information, refer to the Shasta County Area Plan – May 2013.

Note: Response and recovery involving release of radiological materials is covered in an Incident-Specific Annex to this Emergency Operations Plan and will not be included in the scope of EF 10.

2 Policies and Agreements

2.1 Policies

The following policies are currently in place:

- Shasta County Code, Chapter 2.72.
- Shasta County Resolution Number 95-175 establishing the Shasta Operational Area (September 26, 1995).
- Government Code, Title 2, Division 1, Chapter 7 (California Emergency Services Act).

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- Title 2, Division 1, Chapter 7.5 (California Natural Disaster Assistance Act).
- California Code of Regulations, Title 19, Division 2 (Standardized Emergency Management System Regulations).
 - Chapter 4, Article 3
- California Health and Safety Code, Article 1.

2.2 Agreements

The following agreements are currently in place:

- None at this time.

3 Situation and Assumptions**3.1 Situation**

- Hazardous materials are transported through the County, creating a relatively high risk of potential hazardous materials incidents. An incident could occur anywhere, in rural and urban areas, and at any time throughout the County.
- Major roadways within the County are used for routine transportation of hazardous materials with Interstate 5, Highways 44, 89, and 299 as the most heavily used. Union Pacific Railroad is routed through the major population centers of the County, including the cities of Anderson, Redding, and Shasta Lake. Natural gas pipelines run to major population centers and bisect the eastern portion of the County.
- Hazardous material incidents can threaten public health and safety, as well as the environment. While most hazardous material incidents involve smaller volumes of material, they do require specific approaches to different types of chemical and waste releases. It is important to assess the characteristics of the hazard, acquire the necessary resources, and develop a site-specific emergency response plan.
- The commencement of emergency response operations for hazardous material incidents may require multiagency and multidisciplinary responses. Disciplines involved may include fire response, law enforcement, environmental containment and cleanup, fish and wildlife, emergency medical services, environmental health, and others if needed.
- Some incidents may not have immediately obvious impacts on life, property, and the environment but may still have subtle long-term

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consequences for human health and the environment that will require further remediation.

- The California Governor's Office of Emergency Services (Cal OES), Fire and Rescue Division, Hazardous Materials Section coordinates statewide implementation of hazardous materials accident prevention and emergency response programs for all types of hazardous materials incidents and threats.
- The emergency field response to incidents including hazardous materials spills and releases is the responsibility of the fire services or in the case of State highways, the California Department of Transportation and/or California Highway Patrol.

3.2 Assumptions

- A natural or technological disaster could result in one or more situations in which hazardous materials are released into the environment.
- Fixed facilities (chemical plants, tank farms, laboratories, and industries operating hazardous waste sites that produce, generate, use, store, or dispose of hazardous materials) could be damaged so that existing spill control apparatus and containment measures are not effective.
- Hazardous materials that are transported may be involved in railroad accidents, highway collisions, or airline incidents.
- Damage to, or rupture of, pipelines transporting materials that are hazardous if improperly released will present serious problems.
- Emergency exemptions may be needed for disposal of contaminated materials.
- Laboratories responsible for analyzing hazardous material samples may be damaged or destroyed in a disaster.

4 Roles and Responsibilities**4.1 Emergency Function 10 Actions by Phase of Emergency Management****4.1.1 Preparedness**

- Develop and refine procedures to be used in hazardous materials assessments.

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- Prepare and maintain plans and procedures, resource inventories, personnel rosters, and resource mobilization information necessary for implementation of the responsibilities of the lead agency.
- Maintain liaison relationships with support agencies.
- Ensure that personnel are appropriately trained and equipped to deal with hazardous materials incidents.
- Conduct vulnerability analysis at critical facilities and make recommendations to improve the hazardous material storage.
- Pre-position response resources when it is apparent that hazardous materials response resources will be necessary.
- Conduct, coordinate, and participate in all exercises involving hazardous materials operations.
- Develop mutual aid procedures to support response to a hazardous substance incident.
- Estimate logistical requirements (e.g., personnel, supplies and equipment, facilities, and communications) during the planning process and through exercise.
- Participate in exercises and training to validate this annex and supporting plans and procedures.
- Ensure that all hazardous materials personnel are trained in their responsibilities according to the departmental plans and procedures.

4.1.2 Response

- Upon notification, attempt to confirm the material involved, estimated quantity released, and location of the incident.
- Activate the Standardized Emergency Management System (SEMS) and Incident Command System (ICS) and appoint a Safety Officer.
- Establish an isolation area and move all people out of that area.
- Establish perimeter control/area security.
- Establish and identify command post and staging locations. Take measures to protect the public and the safety of responders.
- Deploy appropriately trained personnel to the incident area.
- Seek assistance, when necessary, from the County Environmental Health Division, Shasta Cascade Hazardous Materials Response Team,

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County Fire Department, HHS/PA/PH Officer, Medical Health Operational Area Coordinator, Department of Public Works-Roads, Shasta Area Safety Communications Agency (SHASCOM), mutual aid jurisdictions, the Cal OES, Fire and Rescue Division, Hazardous Materials Section, California Environmental Protection Agency, Department of Toxic Substance Control, and/or the U.S. Environmental Protection Agency.

- Ensure that public health departments are advised and incorporated into the command system.
- Establish adequate zones for decontamination.
- Ensure that personnel are adequately protected and equipped to handle hazardous material incidents.
- Monitor and direct hazardous materials resources and response activities.
- Participate in EOC briefings, Incident Action Plans, Situation Reports, and meetings.
- Coordinate with support agencies, as needed, to support emergency activities.
- Coordinate with other agencies to obtain resources and to facilitate an effective emergency response among all participating agencies.
- Once all local resources have been utilized and expended, coordinate with the Logistic Section to assist in locating additional support resources.
- Work with appropriate agencies to determine site safety and when to declare the incident over and allow people back into the affected area.

4.1.3 Recovery

- Continue to provide support as required for the recovery phase of the incident through the appropriate Incident Commander.
- Continue to monitor personnel and the affected area for contamination.
- Support community recovery activities.
- Participate in after-action briefings and develop after-action reports.
- Initiate the financial reimbursement process for these activities when such support is available.

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- Make necessary changes to this EF Annex and supporting plans and procedures to improve future operations.

4.1.4 Mitigation

- Maintain an accurate and current listing of all fixed facilities that produce or store hazardous materials.
- Prepare site-specific plans for each facility that produces or stores extremely hazardous substances and update these plans annually or as necessary throughout the year.
- Participate in the hazard identification process and identify ways to improve the process.
- Continue to train personnel for hazardous material incidents.
- Develop radiological awareness programs for responders, the public, and industry.
- Develop emergency preparedness programs for hazardous materials incidents.
- Identify deficiencies or areas to be improved and seek funds to enhance protective measures to lessen the impact on vulnerable populations and/or minimize damage to critical facilities.

5 Concept of Operations**5.1 General**

- In accordance with the Basic Plan and this EF Annex, the Shasta Cascade Hazardous Materials Response Team is the primary agency responsible for coordinating oil and hazardous materials activities. Plans and procedures developed by the primary and supporting agencies provide the framework for carrying out those activities.
- Requests for assistance with oil and hazardous materials resources will be generated one of two ways: they will be forwarded to the County EOC, or they will be issued in accordance with established mutual aid agreements.
- The County EOC will provide guidance for the coordination of oil and hazardous materials resources.
- Oil and hazardous materials support requirements that cannot be met at the local level should be forwarded to the State for assistance. If needed, federal assistance may be requested by the Governor.

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- The Director of Emergency Services will notify the Shasta Cascade Hazardous Materials Response Team and supporting agencies of EOC activations and request that representatives report to the EOC to coordinate activities related to oil and hazardous materials response.
- As additional EOC staffing needs become apparent, other support and partnering agency personnel may be asked to report to the EOC to assist with activities related to oil and hazardous materials response.

5.3 Access and Functional Needs Populations

Provision of oil and hazardous materials services in the County will take into account populations with access and functional needs.

6 Emergency Function Annex Development and Maintenance

The Shasta Cascade Hazardous Materials Response Team will be responsible for coordinating regular review and maintenance of this EF annex. Each primary and supporting agency will be responsible for developing plans and procedures that address assigned tasks.

7 Supporting Documents

The following documents are currently in place:

Shasta County

- Shasta County Environmental Health Division, Department of Resource Management Hazardous Materials Area Plan (May 2013).
- Shasta County Hazardous Materials Business Plan Guidance
- Shasta County Fire Mutual Aid Plan
- Shasta County and City of Anderson Hazard Mitigation Plan (2011)
- Shasta-Cascade Hazardous Materials Response Team Standard Operating Procedures

State of California

- California Public Health Medical and Health Emergency Operations Manual (2011)
- California Hazardous Materials Incident Tool Box (January 2011)
- California Emergency Plan: EF 10 – Hazardous Materials

Federal

- National Fire Protection Association 472/473 – Standards for Competence of Responders to Hazardous Materials Incidents/Emergency Medical Services Personnel
- National Response Framework: ESF 10 – Oil and Hazardous Materials

8 Appendices

- None at this time.