

**EMERGENCY SUPPORT FUNCTION - THREE
PUBLIC WORKS AND ENGINEERING**

PRIMARY AGENCIES: Public Works (for affected area)

SUPPORT AGENCIES: Chelan County Emergency Management
Legislative Authority (for affected area)

May need to advise: Law Enforcement
Public Utility District
Public Health District

INTRODUCTION

A. PURPOSE

1. To provide public works and engineering support to assist the county in meeting needs related to response and recovery.
2. To provide demolition of unsafe structures, debris and wreckage clearance, protection and temporary repair of essential facilities, emergency traffic safety signs, the inspection of bridges and roads for damage or safety problems, and taking actions to keep critical streets and roads open.

B. SCOPE

1. Chelan County Public Works is responsible for county roads and road signs, bridges, and public works property. Chelan County Public Works also provides these services for several of the unincorporated towns within the county. Public Works provides a variety of specialized and heavy equipment, trained equipment operators, plus technical and engineering staff.
2. The cities of Entiat, Chelan, Cashmere, Leavenworth, and Wenatchee have their own Public Works Departments. They are responsible for their jurisdictions, and provide services similar to Chelan County Public Works. In addition the cities may also provide water, sewer, and wastewater treatment. Solid Waste Services is handled by Waste Management of Greater Wenatchee.
3. Chelan County has a Building Inspection section. The inspectors work with new construction and major remodeling projects throughout the county.

POLICIES

Chelan County Public Works provides services based on county ordinances. The cities' Public Works function under city ordinances. This

ESF will follow Revised Code of Washington 43.19.450 and applicable local ordinances.

SITUATION

A. Emergency/Disaster Hazards and Conditions

During an emergency or disaster, a variety of hazards and disruptions to services could occur. Streets, roads, and bridges could be damaged or destroyed, covered with water, mud or deep snow, or blocked by debris. Signs may be destroyed or not be visible due to the event. Water systems and/or wastewater facilities may be damaged or threatened, storm drains may be damaged or plugged, and many structures may be damaged. Portions of the county may be physically isolated because of the event. Public Works facilities or equipment may be damaged or inaccessible, and some employees may not be able to report for work. Normal communication systems may be damaged or overloaded. There will be a significant need for damage assessment information. Damaged structures may pose a grave safety risk to emergency workers and the public. There could be scattered or large areas affected by power outages, loss of water, or loss of sewage collection and treatment facilities. Need for public works and engineering services may exceed resources within the county.

B. Planning Assumptions

1. Rapid assessment of the involved area(s) will be initiated to determine critical needs and priorities. Resources, including personnel, will be identified, prioritized, and managed based on critical needs.
2. Actions to support immediate lifesaving response, such as clearing debris and emergency repair of critical roads and streets will be given high priority.
3. The magnitude of the event will require extensive coordination and assistance from all the public works departments within the county. Further assistance from other agencies, private contractors, and/or resources outside the county may be necessary.
4. Transportation may be severely disrupted within the county, as well as adjacent counties. Communication and coordination will be necessary to assure functional routes and modes of transportation are identified.
5. The majority of local citizens are on septic systems, not sewer.
6. The county will obtain emergency environmental waivers, and legal authority will be granted for emergency actions to protect life and property, and for disposal of debris and materials cleared.

7. Previously inspected structures will need re-inspecting if they have been subjected to further damaging forces.

CONCEPT OF OPERATIONS

A. General

1. In the event of a major emergency requiring the activation of engineering/public works services, all necessary equipment and personnel of the affected jurisdiction will be mobilized and dispatched to the scene. All emergency functions will remain the responsibility of the jurisdiction concerned.
2. Chelan County Public Works will provide a representative to the Chelan County EOC, or will maintain direct contact with the EOC. Prioritization, coordination, and support of response and recovery efforts will take place at the EOC.
3. County and city building inspectors may be requested to assist Public Works with damage assessment, and may be asked to take a lead role regarding inspections and damage assessment of buildings. This request, prioritization, coordination, and support will take place at the EOC.
4. Cities and the county may enter into emergency contracts with businesses and contractors for assistance with inspections, provision of specialized and/or heavy equipment, and trained operators.
5. Additional outside assistance and resources may be obtained from state, federal, or private sources after a proclamation of emergency by local and state officials.
6. Activities that Public Works may provide during an emergency or disaster situation are:
 - a. Debris clearance from roadway / right-of-ways.
 - b. Restoration of essential facilities / roadways.
 - c. Heavy equipment resources.
 - d. Evacuation route identification/coordination support.
 - e. Transportation resource coordination.
 - f. Provide signage equipment/road blocks and other resources as needed (i.e. sand, etc.)
7. If needs exceed local resources the Chelan County EOC can contact the State of WA Emergency Management Office/EOC for assistance. The federal government may render assistance if needs exceed the capabilities of the county and state, provided the event has received a presidential declaration of disaster.
8. Public Utility Districts and Cities with waste water treatment systems and drinking water systems will provide for the operation of those local systems.

9. All public information and news release information regarding public works and/or building inspectors will be coordinated by the Chelan County Public Information Officer.

B. Organization

Chelan County Public Works is responsible for the unincorporated areas of the county. The cities' Public Works departments are responsible for their jurisdictions. County and city jurisdictions will provide public works and engineering assistance, as resources permit, to meet the needs of Chelan County regarding emergencies or disasters.

C. Procedures

Each organization under this ESF will follow their own internal Standard Operating Procedures when responding to an incident. When appropriate, agencies will assign a representative to the EOC or command post, as the circumstances dictate.

D. Mitigation Activities

1. Primary agencies:
Maintain and repair roadways and rights-of-way.
2. All agencies shall:
Regularly maintain equipment to ensure it is in good running order.

E. Preparedness Activities

1. All agencies shall:
 - a. Maintain an inventory of available resources including personnel within their departments.
 - b. Develop and maintain Standard Operating Procedures for emergency and disaster situations.
 - c. Develop and maintain mutual aid agreements with neighboring jurisdictions.
 - d. Coordinate emergency planning activities and information with neighboring jurisdictions and the department of Emergency Management.
 - e. Maintain and test communication systems.
 - f. Identify vital and essential roadways, bridges and facilities and establish a repair priority in the event any of these become damaged.
 - g. Assure that personnel are trained in their emergency responsibilities. When possible, cross-train employees so they can function where there is the greatest need.

F. Response Activities

Many response activities may have been initiated prior to the Chelan County EOC being activated. Once the EOC is activated, the appropriate lead county or city public works department needs to send a representative to the EOC or maintain direct contact with the EOC as requested. The EOC and Public Works representative will provide coordination and prioritization of the following response activities:

1. Gather as much information regarding road conditions as possible, identify personnel and equipment needed to maintain, repair or clear roadways as needed, and dispatch resources to high priority areas.
2. Inform and coordinate with law enforcement, WA State Dept. of Transportation, and others as needed regarding what roads are open and if any restrictions apply.
3. Coordinate with other agency representatives in the EOC regarding debris removal, demolition of unstable structures, emergency stabilization of damaged structures, and other actions to assist with rescue, and protection of lives and property. High priority will be given to critical facilities such as hospitals, extended care facilities, and mass care shelters.
4. Take protective measures to protect roads, critical facilities, and other property as needed, such as sandbagging, building dikes, or digging drainage ditches.
5. Begin damage assessment, coordinating with other departments and agencies as necessary. High priority will be given to critical facilities such as hospitals, extended care facilities, schools, and mass care shelters.
6. Conduct inspections for damage or disruption of water systems, including wells and pumps, in addition to sewer systems, and/or treatment plants as needed. Initiate backup systems and/or make emergency repairs, as needed. Notify Chelan County EM/EOC and/or fire departments if fire hydrant systems are non-functional. Obtain test water samples if there is a possibility of contamination. Coordinate with the health department as needed for inspection and testing of private wells and septic tanks.
7. Chelan County Public Works will assist the Chelan County EOC with geographical information and special referencing (GIS). The Assessor's Office will provide a GIS specialist to the EOC if needed.
8. Assist with alert and warning if requested.

G. Recovery Activities

1. Each department, agency and individual shall maintain accurate records of the incident. They will be responsible for maintaining disaster and recovery expense records for future possible

reimbursement. Financial issues such as supplies used, equipment lost or damaged, wages for hours worked including overtime, and other costs require documentation before reimbursement is issued. If emergency vehicles, communications equipment or stations are damaged, special contracts may be needed for their quick repair or replacement, and temporary or long-term arrangements may be needed. During the recovery phase, it is imperative to maintain communication and coordination with the EOC. Public Works departments and districts may provide public information regarding safety issues as people return to their homes and businesses. Departments, districts, and individuals involved in the emergency or disaster should participate in post event reviews and critiques, and contribute to written reports regarding observations and recommendations.

2. Support for Public Works personnel is also part of recovery and returning to normal operations. This support may include counseling, or Critical Incident Stress Management.
3. Public Works will continue to communicate with the Chelan County EM/EOC and coordinate recovery activities, as priorities and resources allow. They will continue to assist with damage assessment reports and other requirements necessary for obtaining financial assistance for the county and involved cities or towns.

RESPONSIBILITIES

A. Primary Agencies

1. Coordinate construction, repair, maintenance, and signing of roads in their jurisdictions.
2. When feasible, coordinate mobilization of personnel and equipment for the repair or reconstruction of damaged critical facilities.
3. Initiate or coordinate for emergency contracting of private resources.
4. Provide inspection of facilities to determine structural condition and safety factors.
5. Supervise demolition of structures posing a threat to safety, and removal of debris and wreckage.

B. Support Agencies

1. Chelan County Board of Commissioners
 - . Chelan County Commissioners have the authority to declare an emergency or disaster. They also have the authority to set policies and make decisions, including authorization of expenditures.
2. Chelan County Emergency Management
 - a. Chelan County Emergency Management is responsible for maintaining and organizing the Chelan County EOC.

- b. The Chelan County EOC coordinates with Public Works, private contractors, and other departments and agencies as necessary to obtain resources and assets to provide Public works and Engineering Services. The EOC maintains contact with the State of WA Emergency Management Officer and/or EOC.

RESOURCE REQUIREMENTS

Resources available to carry out this ESF are in the Chelan County Resource Inventory book. Additional resources that may be needed in times of disasters may have to be obtained locally through private sources or through a request from the state.

REFERENCES

R.C.W. 43.19.450
Chelan County Code