

EMERGENCY SUPPORT FUNCTION  
3: PUBLIC WORKS & ENGINEERING

**Coordinating:**

Yakima County Public Services  
Public Works (Cities/Towns)  
Yakima Valley Emergency Management

**Primary(s):**

Yakima County Public Services  
Public Works (Cities/Towns)

**Supporting:**

Fire Services  
Law Enforcement (including Washington State Patrol)  
Private Industry (e.g. utilities, water)  
Washington State Department of Transportation (WSDOT)  
Yakima Health District  
Yakima Valley Emergency Management

**Other Emergency Support Functions (ESFs) or Recovery Functions exist that coordinate with or support this ESF:**

- On the ESF Core Capabilities Matrix, find Primary core capabilities (P) within this ESF and then move vertically and add all Supporting (S) core capabilities and equate them to ESFs.
- Next find all Supporting (S) ESFs in the column and then move horizontally along each row of a Supporting (S) core capability to find all Primary (P) ESFs.

ESF 1	ESF 2	ESF 4	ESF 5	ESF 6	ESF 7	ESF 10	ESF 11	ESF 12	ESF 14	Economic Recovery
Response										Recovery
Supports										
<b>ESF 3</b>										

**1. Purpose**

- 1.1. Emergency Support Function (ESF) #3 – Public Works & Engineering provides technical advice and or coordination for evaluation, engineering services, contracting for construction management and inspection, contracting for emergency repair of water and wastewater facilities, potable water and ice, emergency power and real estate support to assist the county and municipalities in meeting goals related to lifesaving and life sustaining actions, damage mitigation, and recovery activities following a major disaster emergency.

Primary Core Capabilities	
Shared Response and Recovery Mission Areas	
Infrastructure Systems	Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community.

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<b>Support Core Capabilities</b>	
<b>Response Mission Area</b>	
Critical Transportation	Provide transportation (including infrastructure access and accessible transportation services) for response priority objectives, including the evacuation of people and animals and the delivery of vital response personnel, equipment, and services into the affected areas.
Environmental Response/Health & Safety	Conduct appropriate measures to ensure the protection of the health and safety of the public and workers, as well as the environment, from all hazards in support of responder operations and the affected communities.
Logistics & Supply Chain Management	Deliver essential commodities, equipment, and services in support of impacted communities and survivors, to include emergency power and fuel support, as well as the coordination of access to community staples. Synchronize logistics capabilities and enable the restoration of impacted supply chains.
Mass Care Services	Provide life-sustaining and human services to the affected population, to include hydration, feeding, sheltering, temporary housing, evacuee support, reunification, and distribution of emergency supplies.
Operational Communications	Ensure the capacity for timely communications in support of security, situational awareness, and operations, by any and all means available, among and between affected communities in the impact area and all response forces.
<b>Recovery Mission Area</b>	
Economic Recovery	Return economic and business activities (including food and agriculture) to a healthy state and develop new business and employment opportunities that result in an economically viable community.

**2. Policies**

- 2.1. Coordination with and support of local emergency operations is accomplished through the local road crews, local emergency management agency, or other appropriate local agencies.
- 2.2. Yakima County and municipal jurisdictions provide public works response services to lands and facilities under their respective jurisdictions. Response to private property problems should be done only when a jurisdiction infrastructure, such as a culvert, is causing the problem or when life or public health is threatened.

**3. Situation Overview**

- 3.1. The extent of damage to the public infrastructure of the affected area, in addition to the condition of the transportation network in the area, will influence the strategy for assessment and restoration operations.

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- 3.2. After certain disaster events, urban water systems may be inoperable or sufficiently damaged, so priority should be given to firefighting, health care and life saving needs.
- 3.3. 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.
- 3.4. Support and assistance from outside Yakima County may be obtained through mutual aid agreement with surrounding counties or the Washington State Emergency Management Department.

**4. Concept of Operations**

- 4.1. An assessment of the condition of public infrastructure will be conducted and the information analyzed to determine the criticality of immediate repair, restoration, or demolition of any structure or facility. The status of the public infrastructure will be disseminated widely among emergency response and recovery agencies and local governments, in particular the condition of water supply, wastewater, and solid waste treatment facilities.
- 4.2. County Public Services will have the lead for events requiring an extensive public works response in the unincorporated areas of the county. Likewise, if the needed response is inside a city/town jurisdiction, the respective city/town Public Works will have the lead for events requiring an extensive public works response.
- 4.3. County Public Services will provide a liaison to the YCEOC or will maintain direct contact with the YCEOC. Prioritization, coordination, and support of response and recovery efforts will take place at the YCEOC.
- 4.4. County and city/town 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 YCEOC.
- 4.5. Resource needs and requests will be obtained from Yakima County departments and agencies, other ESFs, and municipalities. Cities/towns 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. Requests will be prioritized, and resources will be allocated and deployed in mission assignments. Missions will be tracked, and resources will be reassigned as they become available for subsequent uses.
- 4.6. All public information and news release information regarding public works and/or building inspectors will be coordinated by the Lead Public Information Officer (PIO) or Joint Information Center (JIC) (See ESF 15 – Public Affairs).

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**4.7. Whole Community Involvement**

- 4.7.1. A successful Whole Community public works and engineering program assesses local assets and capabilities, bolsters identified weaknesses, and supports locally-driven solutions. This includes, but is not limited to, inclusive disaster planning, supporting local response organizations and processes, developing partnerships with supportive groups and agencies, and ensuring a place at the table for government, residents, NGOs, businesses, churches, advocacy organizations, and other stakeholders.
  
- 4.7.2. The Whole Community includes populations with individuals with disabilities and Access and Functional Needs (AFN). Any agency or organization that receives federal funding is required to have a plan or policy for addressing the needs of individuals with Limited English Proficiency (LEP), pursuant to Title VI, the Civil Rights Act. The Washington State Emergency Management Division and this ESF expects all agencies and organizations to comply with federal law. For more information on how each agency or organization complies with federal law, please contact the individual agency or organization.
  
- 4.7.3. ESF #3 recognizes that inclusion and accessibility is about more than language translation. Inclusion and accessibility mean a concerted effort to engage populations with limited English proficiency (LEP), disabilities, or other conditions that limit access to recovery services, and to promote effective resource accessibility – that is, that no impacted individuals face a unique burden in securing resources for which they qualify, and that are available to others.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Infrastructure Systems</b>		
Response	<b>1</b>	Decrease and stabilize immediate infrastructure threats to the affected population, to include survivors in the heavily damaged zone, nearby communities that may be affected by cascading effects, and mass care support facilities and evacuation processing centers with a focus on life-sustainment and congregate care services.
	<b>2</b>	Re-establish critical infrastructure within the affected areas to support ongoing emergency response operations, life sustainment, community functionality, and a transition to recovery.
	<b>3</b>	Provide for the clearance, removal, and disposal of debris.
Recovery	<b>1</b>	Restore and sustain essential services (public and private) to maintain community functionality.
	<b>2</b>	Develop a plan with a specified timeline for redeveloping community infrastructures to contribute to resiliency, accessibility, and sustainability.
	<b>3</b>	Provide systems that meet the community needs while minimizing service disruption during restoration within the specified timeline in the recovery plan.

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Mission Area	Critical Task I.D.	Critical Tasks
<b>Critical Transportation</b>		
Response	<b>2</b>	<b>Ensure basic human needs are met</b> , stabilize the incident, transition into recovery for an affected area, and <b>restore basic services and community functionality</b> .
	<b>3</b>	Clear debris from any route type (i.e., road, rail, airfield, port facility, waterway) to facilitate response operations.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Environmental Response/Health &amp; Safety</b>		
Response	<b>1</b>	Identify, assess, and mitigate worker health and safety hazards, and disseminate health and safety guidance and resources to response and recovery workers.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Logistics &amp; Supply Chain Management</b>		
Response	<b>2</b>	Enhance public and private resource and services support for an affected area.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Mass Care Services</b>		
Response	<b>1</b>	Move and deliver resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs.
	<b>2</b>	Establish, staff, and equip emergency shelters and other temporary housing options (including accessible housing) for the affected population.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Operational Communications</b>		
Response	<b>2</b>	Re-establish sufficient communications infrastructure within the affected areas to support ongoing life-sustaining activities, provide basic human needs, and a transition to recovery.

Mission Area	Critical Task I.D.	Critical Tasks
<b>Economic Recovery</b>		
Recovery	<b>1</b>	Conduct a preliminary assessment of economic issues and identify potential inhibitors to fostering stabilization of the affected communities.
	<b>2</b>	Return affected area's economy within the specified timeframe in the recovery plan.

**5. Organization**

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- 5.1. The ESF #3 position will likely be staffed by a representative from the Yakima County Public Services Department. Personnel assigned to this position are recommended by the Director of Public Services and coordinated through the Director of Emergency Management or designee. The ESF #3 position, when activated, operates in the Yakima County EOC and is a member of the Infrastructure Branch within the Operations Section reporting to the Infrastructure Branch Director or Operations Section Chief. This position is the link to the public works operations in the field.
- 5.2. The ESF #3 position provides subject-matter expertise to other EOC positions. Based on potential need, this ESF may operate on a 24-hour basis. Supporting agencies have representatives available at the county EOC or by telephone or email on a 24-hour basis while ESF #3 is operational.

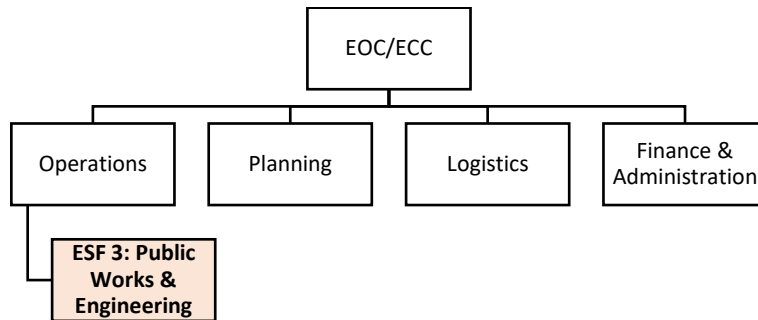


Figure 1: YCEOC, ESF #3, Organizational Chart Example

**6. Direction, Control, & Coordination**

- 6.1. Local government Incident Commanders (IC) where the emergency occurs will exercise tactical direction and control of disaster activities within that jurisdiction. The IC, or designee, will coordinate with YVEM, who is responsible for implementing the County Comprehensive Emergency Management Plan (CEMP). Each jurisdiction shall establish Standard Operating Guidelines (SOGs) to control and direct response and recovery actions.
  - 6.1.1. Yakima Valley Conference of Government (YVCOG) develops transportation plans that transcend jurisdictional boundaries that affect the quality of life for the Yakima County area. YVCOG facilitates the work of the Mobilizing Public Access to County-Wide Transportation Committee (MPACT) in developing the 2018 Human Services Transportation Plan (HSTP). The HSTP describes the regional demographic summary and the current transportation services available within the county.
  - 6.1.2. The City of Yakima Public Works Department is currently developing a Public Works Emergency Response Plan for the city, as of 2019, with YVEM engaged as one of the stakeholders.
- 6.2. In cases where local resources to contend with an emergency do not exist or have been depleted, the affected IC, in coordination with Yakima Valley Emergency Management (YVEM), should request county aid first and then followed by state aid through the county and/or state EOCs, respectively. Resources made available to the local government will be under the operational control of the Chief Elected Official (CEO) or designee through the Incident Commander. When the resource mission is completed, the local ECC and Yakima County Emergency Operations Center

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(YCEOC)/Yakima Valley Emergency Management (YVEM) will be notified, and the resource returned for other assignment.

- 6.3. If the needed response exceeds these local capabilities, the CEO of the local jurisdiction may declare a “State of Emergency” to expedite access to resources needed to cope with the incident.
- 6.4. YVEM is responsible for the proper functioning of the YCEOC during emergency operations. YVEM also acts as a liaison with state and federal emergency agencies, and neighboring counties.
- 6.5. The YCEOC is the central point for coordinating emergency response and recovery actions. The purpose of this central point is to ensure harmonious response when the emergency involves more than one political entity and several response agencies. Coordination of services will be through the YCEOC Manager and Section Coordinators to provide for the most efficient management of resources.
- 6.6. Department/agency heads and other officials legally administering their office may perform their emergency function(s) on their own initiative if, in their judgment, the safety or welfare of the population is threatened. The YCEOC and/or YVEM should be notified as soon as possible.

**7. Information Collection, Analysis, & Dissemination**

- 7.1. Information collection on public services/works services and infrastructure status will be coordinated through ESF #3 and the YCEOC or other designated point as appropriate to the incident.
- 7.2. The local Incident Commander (IC) or designee is responsible for providing situation reports and periodic updates to keep the YCEOC informed. The YCEOC, ESF #3 Coordinator, or designee shall provide situation reports to local support agencies/jurisdiction ECCs and the Washington State Emergency Management Division (WAEMD) – State Emergency Operations Center (SEOC) as appropriate.
- 7.3. Jurisdiction, agency, private-sector, non-governmental, and volunteer organization representatives within the YCEOC will assist with meeting the information collection, analysis, and dissemination needs/methods of the JIC (if activated) and YCEOC. This will include maintaining contact with their local incident PIOs for reports and updates.
- 7.4. Some infrastructure services and information/requests (e.g. expenditures and entering into contracts) coming into the YCEOC may require a vetting process through the Policy Group and the YCEOC Manager due to legal, policy, ethical, or other concerns.
- 7.5. The YCEOC will be responsible for collection, analysis, and dissemination of the latest incident information and resources as depicted in Figure 2: YCEOC Information Collection, Analysis, and Dissemination Process example.

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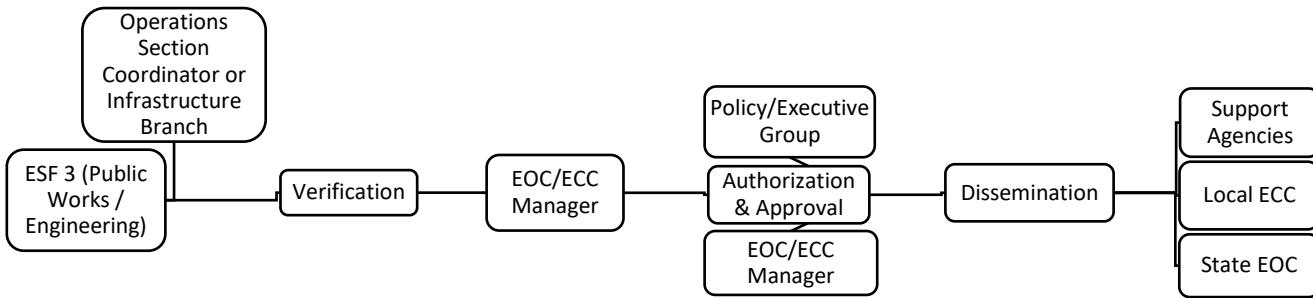


Figure 2: YCEOC Information Collection, Analysis, and Dissemination Process Example

**8. Responsibilities**

Response Mission Area			
Core Capability	Critical Task I.D.	Activity/Action	Organization(s) Name
Infrastructure Systems	1	Coordinate the provision of materials, services and facilities in support of emergency operations.	YVEM
			Yakima County Public Services / Municipal Public Works
			Law Enforcement
Infrastructure Systems	1, 2, 3	Coordinate and provide information regarding road closures and accessibility to and from disaster.	YVEM
			Yakima County Public Services / Municipal Public Works
			Law Enforcement
Infrastructure Systems	1, 2	Provide coordination in the monitoring and stabilization of damaged structure and the demolition of structures designated as immediate hazards to public health and safety.	YVEM
			Yakima County Public Services / Municipal Public Works
Infrastructure Systems	3	Prioritize and initiate the removal of debris and road repair in a fashion that provide greatest benefit to aiding in live saving activities then in operations that would have the greatest benefit to the community.	Yakima County Public Services/Municipal Public Works
Critical Transportation			WSDOT
Critical Transportation	1, 2		Yakima County Public



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<b>Response Mission Area</b>			
<b>Core Capability</b>	<b>Critical Task I.D.</b>	<b>Activity/Action</b>	<b>Organization(s) Name</b>
		Determine which transportation networks within their jurisdiction are unusable and report information to the Yakima EOC.	Services/Municipal Public Works WSDOT
<b>Critical Transportation</b>	1	Block off streets and roads and establish detours as appropriate and directed by EOC or law enforcement agencies.	Yakima County Public Services/Municipal Public Works
			WSDOT
			Law Enforcement
<b>Critical Transportation</b>	2	Obtain an assessment of the local and regional transportation network and analyze information to determine the feasibility of accessing existing supply storage locations.	Yakima County Public Services/Municipal Public Works
			WSDOT
<b>Environmental Response/Health &amp; Safety</b>	1	Identify, assess, and mitigate worker health and safety hazards, and disseminate health and safety guidance and resources to response and recovery workers.	Yakima Health District
<b>Environmental Response/Health &amp; Safety</b>	2, 3	Identify and assist in the management of contaminated debris (hazardous materials) in coordination with ESF #10.	Yakima County Public Services/Municipal Public Works
			Fire Services
			Law Enforcement (Washington State Patrol)
<b>Logistics &amp; Supply Chain Management</b>	1, 2	Obtain an initial public works needs and damage assessment through established intelligence procedures and determines the appropriate management and logistical response to meet the request for assistance.	YVEM
			Yakima County Public Services / Municipal Public Works
<b>Mass Care Services</b>	1	Coordinate delivery of health resources and capabilities to meet the needs of disaster survivors, including individuals with access and functional needs.	Yakima Health District
			YVEM

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Response Mission Area			
Core Capability	Critical Task I.D.	Activity/Action	Organization(s) Name
<b>Mass Care Services</b>	2	Coordinate emergency shelters and other temporary housing options (including accessible housing) for the affected population.	YVEM
<b>Operational Communications</b>	1	Ensure the communication capacity exists or is restored with both the emergency response community and the affected populations and establish interoperable voice and data communications.	YVEM
			Yakima County Public Services / Municipal Public Works
			Private Industry (e.g. utilities)
<b>Operational Communications</b>	2	Re-establish sufficient communications infrastructure within the affected areas to support ongoing life-sustaining activities, provide basic human needs, and a transition to recovery.	Yakima County Public Services / Municipal Public Works
			Private Industry (e.g. utilities)

Recovery Mission Area			
Core Capability	Critical Task I.D.	Activity/Action	Organization(s) Name
<b>Economic Recovery</b>	1, 2	Assess the economic issues to stabilize communities and the county within a specified timeframe in the recovery plan.	YVEM
			Yakima County Public Services / Municipal Public Works
<b>Infrastructure Systems</b>	1	Coordinate and collaborate in restoring transportation and other critical infrastructure.	All Coordination, Primary and Support Organizations
<b>Infrastructure Systems</b>	1, 3	Maintain logistics support through the YCEOC for mobilizing resources for transportation and other critical infrastructure.	Yakima County Public Services / Municipal Public Works
			YVEM
<b>Infrastructure Systems</b>	2	Coordinate a recovery plan for redeveloping transportation and other critical infrastructure.	YVEM

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**9. Resource Requirements**

Resources	Providers
Desktop or Laptop	Yakima County EOC (may bring home agency laptop)
WebEOC login	Primary Agency/Organization
Contact list (phone & email) of organizations (master list)	Yakima County EOC or Home Agency/Organization
Internet and folder drive access	Yakima County EOC
Appropriate Home Agency/Org SOPs (hard & soft copies)	Primary Agency/Organization
Desk Phone	Yakima County EOC
Tiered communication structure with Incident Management Teams (IMT)	Yakima County EOC
Two-way Radio	Yakima County EOC or Home Organization
Training	Providers
E/G0191 (Emergency Operations Center/Incident Command System Interface)	Various locations (in-residence)
IS 100, 200, 700, 800	FEMA Emergency Management Institute (online)
ICS 300, 400	Various locations (in-residence)
Position training	Yakima Valley Emergency Management (YVEM)

**10. References and Supporting Plans**

- 10.1. [ESF 1](#) – Transportation, Yakima County CEMP
- 10.2. [ESF 2](#) – Communications, Information Systems, & Warning Infrastructure, Yakima County CEMP
- 10.3. [ESF 4](#) – Firefighting, Yakima County CEMP
- 10.4. [ESF 5](#) – Emergency Management, Yakima County CEMP
- 10.5. [ESF 6](#) – Mass Care, Housing, and Human Services, Yakima County CEMP
- 10.6. [ESF 7](#) – Resource Support, Yakima County CEMP
- 10.7. [ESF 10](#) – Oil and Hazardous Materials, Yakima County CEMP
- 10.8. [ESF 11](#) – Agriculture and Natural Resources, Yakima County CEMP
- 10.9. [ESF 12](#) – Energy and Utilities, Yakima County CEMP
- 10.10. [ESF 14](#) – Long-Term Recovery, Yakima County CEMP
- 10.11. [Washington State Comprehensive Emergency Management Plan \(CEMP\), ESF #3](#)
- 10.12. [Yakima Municipal Code, Chapter 6.06](#) – Emergency Powers of Mayor, City Council and City Manager

**11. Terms and Definitions**

- 11.1. **Whole Community** – A focus on enabling the participation in national preparedness activities of a wider range of players from the private and nonprofit sectors, including nongovernmental organizations and the general public, in conjunction with the participation of all levels of government in order to foster better coordination and working relationships. Used interchangeably with “all-of-Nation.” (National Preparedness Goal, September 2015)