

# 3

## **ESF 3 – Public Works and Engineering**

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# ESF 3 – Public Works and Engineering

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## ESF 3. Public Works and Engineering

| ESF 3 Tasked Agencies |  |
|-----------------------|--|
| Primary Agencies      | Klamath County Public Works Department |
| Supporting Agencies   |  |
| Adjunct Agencies      | Oregon Dept. of Transportation (ODOT)  |

## 1 Purpose and Scope

Emergency Support Function (ESF) 3 provides a mechanism for coordinating infrastructure and engineering services during all phases of emergency management. Resources included in ESF 3 (personnel, equipment, facilities, materials, and supplies) will be coordinated through the County Emergency Operations Plan (EOP) following established procedures and agreements. Resources may also be obtained through contractors, vendors, and suppliers.

- Public works and engineering resources, under the authority of ESF 3, will be used to assist in the following activities associated with emergency response;
- Debris clearance from transportation infrastructure;
- Coordination of the closure and repair of transportation infrastructure;
- Repair and restoration of damaged public systems (e.g., stormwater systems);
- Stabilization of damaged public and private structures to facilitate search and rescue and/or protect the public's health and safety;
- Identification and labeling of uninhabitable/unsafe structures;
- Development and designation of emergency collection, sorting, and debris routes and sites for debris clearance from public and private property;
- Determination of extent of damage to the following systems: transportation, , and hazardous materials;
- Prioritization and initiation of recovery efforts to restore, repair, and mitigate city and county-owned infrastructure; and
- Provide technical assistance with respect to flooding, water management, , and impact assessments to road system infrastructure.

## 2 Policies and Agreements

The following policies and agreements are currently in place:

- Oregon Public Works Emergency Response Cooperative Assistance Agreement

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### 3 Situation and Assumptions

#### 3.1 Situation

Klamath County is subject to a number of disaster circumstances that could occur locally and would create a need for emergency public works services.

#### 3.2 Assumptions

- All public works and building maintenance equipment and personnel will be available to cope with any anticipated disaster.
- Without finances, the Klamath County Public Works Department and Building Maintenance Department do not have sufficient resources to cope with a disaster.
- Local contractors have resources to assist recovery efforts.
- Assistance may be available from outside the jurisdiction through mutual aid and other existing agreements.
- Repair and restoration of essential services and vital facilities is possible and such that public works and buildings maintenance can reasonably be expected to accomplish this task.
- Public Works will be able to accomplish debris clearance in an emergency, depending upon scope of the event.

### 4 Roles and Responsibilities

The roles and responsibilities for each department in support of emergency services will vary depending on the type of resource, the length of the warning period, and the duration of the incident.

#### 4.1 General

During emergencies public work activities will be managed by the Public Works Director consistent with ICS delineated elsewhere in this plan.

#### 4.2 Task Assignments

##### 4.2.1 Public Works Director

- Coordinate emergency public works activities.
- Train personnel in emergency procedures.
- Identify local private contractors who can provide backup support.
- Develop resource lists.

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- Repair and restoration of essential services and vital facilities.
- Participate in development and execution of emergency preparedness exercise.

**4.2.2 Building Maintenance Director**

- Coordinate emergency building maintenance activities
- Train personnel in emergency procedures
- Identify local private contractors who can provide backup support
- Develop resource lists
- Repair and restoration of essential services and vital facilities.
- Participate in development

**5 Concept of Operations**

**5.1 General**

Overall responsibility for providing public works services and building maintenance during emergencies rests with the Board of County Commissioners (BOCC). The Public Works Director and the Building Maintenance Director will manage their resources and equipment and coordinate public work activities through the Incident Command System.

**5.2 Phases of Emergency Management**

**5.2.1 Mitigation**

- Train personnel in emergency procedures.
- Work with legislative body to ensure that ordinances are created to protect public works systems.
- Identify vulnerabilities in public works and building maintenance and identify priority inspection locations.
- Provide input into after-action reviews to improve preparedness, response, and recovery capabilities.
- Work with planning commission to ensure that new constructions do not increase hazard or vulnerability threat.
- Work with legislative body to improve building codes.

**ESF 3. Public Works and Engineering****5.2.2 Preparedness**

- Ensure that storm sewers and road culverts are in good repair.
- Ensure that equipment is in good repair.
- Ensure that adequate barrier and roadblock materials and equipment are available.
- Review and update all utility and public works maps of jurisdiction in conjunction with Klamath County Emergency Management .
- Review emergency staffing plans.
- Secure all equipment against damage.
- Organize damage survey teams.
- Place standby equipment in operational readiness.
- Coordinate communications procedures with Incident Commander and/or EOC.
- Review contingency plans and coordinate task assignments with other agencies and volunteer groups.
- Develop procedures to support accomplishment of tasks outlined in this annex.

**5.2.3 Response**

- Survey disaster areas and evaluate in terms of engineering estimates.
- Maintain contact with IC and EOC.
- Send representative to EOC when activated.
- Assess damage.
- Clear roads as necessary.
- Barricade damage areas, as directed.
- Call out private contractors and other assistance, within the Incident Command System.
- Assist in search and rescue operations, as requested by the Incident Commander.



**ESF 3. Public Works and Engineering****5.2.4 Recovery**

- Repair public works and public buildings (primarily a Buildings Maintenance responsibility) where finances are available in conjunction with County Buildings and Maintenance.
- Support decontamination work, as necessary, and where trained.
- Participate in compiling after-action report and critiques. Make necessary changes and improvements in emergency management plan.
- Make recommendations to legislative body about changes in planning, zoning, and building code ordinances to mitigate impact of future disasters.

**6 Direction and Control**

- The usual supervisors will exercise operational control of public works forces with the Public Works Director maintaining overall management of equipment and personnel. When the BOCC implements the Incident Command System (ICS), Public Works will function within that system. When the EOC is activated, a Public Works and/or Buildings Maintenance representative will be dispatched to the EOC to assist in setting priorities and maintaining contact with the Public Works Director and or Buildings Maintenance Director.
- Mutual aid forces will operate under the direct supervision of their own supervisors while volunteer/auxiliary forces will work under the supervision of the senior public works official in the jurisdiction where they are deployed. When ICS is implemented, Public Works will be organized within that system.

**7 Supporting Plans and Procedures**

The following plans and procedures are currently in place:

- National Response Framework, ESF 3 – Public Works and Engineering
- State of Oregon Emergency Operations Plan, ESF 3 – Public Works and Engineering

**8 Appendices**

None at this time.

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