

# 4

## Cascadia Subduction Zone Catastrophic Annex

### ESF 4 – Firefighting

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ESF 4 Tasked Agencies	
<b>Primary Agencies</b>	Oregon Department of Forestry (ODF) Office of the State Fire Marshal (OSFM)
<b>Supporting Agency</b>	Oregon Military Department (OMD)
<b>Adjunct Agencies</b>	Oregon Department of Corrections (DOC)

## 1 Purpose

Detect and suppress wildland, rural, and urban fires resulting from, or occurring coincidentally with a Cascadia Subduction Zone earthquake and resulting tsunami.

## 2 Scope

Coordinates support of firefighting activities, including detection of fires, and providing personnel, equipment, and supplies in support of all agencies involved in rural and urban (OSFM) and wildland (ODF) firefighting operations.

## 3 Roles and Responsibilities

### 3.1 Primary Agencies

#### 3.1.1 Oregon Department of Forestry

- Works in conjunction as a fire protection agency with the Oregon State Fire Marshal’s office and other agencies as needed.
- ODF operates within a complete and coordinated system of federal, State and local fire jurisdictional partners to meet its primary mission of protecting forest resources; this is second only to saving lives. Structural protection, though indirect, shall not inhibit protection of forest resources.
- Through the Fire Mobilization Plan, ODF is capable of mobilizing a substantial response to emergencies including incident management teams, public information personnel, radio systems, communications trailers, kitchens, shower units, and other support services.

#### Priorities

- Life and safety of responders and the public;
- Ensure safety of personnel and facilities;
- Assessment of State forestry issues as a result of the incident;
- Coordination of forestry assets following incident.

#### Assets

- ODF is administered via three operational areas in the State: Eastern Area, Southern Area and Northwestern Area;
  - Each area has five districts.
  - Each ODF district has a communications center. The centers are not operational at all times. Are mainly activated during fire season.

- Can be stood up to provide communications capabilities 24/7 for as long as needed.
- ODF operates the Salem Coordination Center, which is responsible to coordinate the distribution of ODF assets Statewide;

Area Headquarters offices located throughout the State direct response activities of ODF assets:

**ODF Area Headquarters and Statewide Offices**

Northwest Oregon Area Offices	PHONE	FAX
Eastern Oregon Area / Central Oregon District /Prineville Unit PO Box 670, 3501 E Third Street Prineville, OR 97754	(541) 447-5658	(541) 447-1469
Central Oregon Interagency Dispatch 4550 SW Airport Road, Prineville, OR 97754	(541) 416-6800	(541) 416-6847
The Dalles Unit  3701 W 13 <sup>th</sup> , The Dalles, OR 97058	(541) 296-4626	(541) 298-4993
Mt. Hood Guard Station 6640 Copper Spur Rd, Mt. Hood-Parkdale, OR 97041	(541) 352-6303	
White River Guard Station  78519 Dodson Rd, Wamic, OR 97063		
Sisters Sub-Unit PO Box 190, 114 W Washington, Sisters, OR 97759	(541) 549-2731	(541) 549-9422
John Day Unit 415 Patterson Bridge Road, P.O. Box 546, John Day, OR 97845	(541) 544-2142	(541) 575-2253
Long Creek Guard Station At the ODOT Maintenance Station Hwy 395 Long Creek, OR	(541) 421-3692	none
Fossil Sub-Unit 45945 Hwy 10, Fossil, OR 97830	(541) 763-2575	(541) 763-2027
Monument Guard Station PO Box 386, Monument, OR 97864	(541) 934-2300	(541) 934-2301
Tupper Guard Station 15 mi East of HWY 207, On USFS 21 RD	(541) 676-9776	none
Klamath/Lake District Office/ Klamath Unit 3200 DeLap Road, Klamath Falls, OR 97601	(541) 883-5681	(541) 883-5555

**ESF 4. Firefighting**

Klamath Interagency Fire Center 6300 Summers Lane, left on Wings Way, Klamath Falls, OR 97601	(541) 883-5693	(541) 883-6830
Lakeview Unit 2290 North 4th Street, Lakeview, OR 97630	(541) 947-3311	(541) 947-3078
Lakeview Interagency Fire Center HWY 395 to S 9 <sup>th</sup> ST West 4 to 1000 S 9 <sup>th</sup> ST, Lakeview, OR 97630	(541) 947-6315	(541) 947-6317
Bly Guard Station 7686 Happy Hollow Lane, Bonanza, OR 97623	(541) 545-6596	none
Silver Ranger Station	(541) 576-2470	none
Camp Six Guard Station	none	none
Sand Creek Guard Station	(541) 365-4441	none
Northeast Oregon District Office/ La Grande Unit 611 20th Street, La Grande, OR 97850	(541) 963-3168	(541) 962-1058
Northeast Interagency Fire Center Pierce Road, La Grande, OR 97850	(541) 963-7171	(541) 962-8673
Baker City Sub-Unit 2995 Hughes Lane, Baker City, OR 97814	(541) 523-5831	(541) 523-587
Powder River Corrections 3600 13 <sup>th</sup> Street, Baker City, OR 97814	(541) 963-7171	none
Unity Guard Station Unity, OR 97884	(541) 446-3600	none
Pendleton Unit 1055 Airport Road, Pendleton, OR 97801	(541) 276-3491	(541) 276-0710
Pendleton Interagency Communication Center 2517 SW Hailey Ave, Pendleton, OR 97801	(541) 278-3732	(541) 278-3750
Ukiah Guard Station Ukiah, OR 97880	(541) 427-3151	(541) 427-3152
Wallowa Unit 802 W. Hwy. 82, Wallowa, OR 97885	(541) 886-2881	(541) 886-9085
Courtney Butte Guard Station	none	none
Walker Range Patrol Association P.O. Box 665, Gilchrist, OR 97737	(541) 433-2451	(541) 433-2215

**ESF 4. Firefighting**

<b>Northwest Oregon Area Offices</b>	<b>PHONE</b>	<b>FAX</b>
NW Oregon Area/ Forest Grove District 801 Gales Creek Rd, Forest Grove, 97116	(503) 359-7426	(503) 359-9514
Astoria District 92219 HWY 202, Astoria, OR 97103	(503) 325-5451	(503) 325-2756
North Cascade District/ Santiam Unit 22965 North Fork Road SE, Lyons, OR 97358	(503) 859-2151	(503) 859-2158
Molalla Unit 14995 S Hwy 211, Molalla, OR 97038-8441	(503) 829-2216	(503) 829-4736
Haskins Creek Guard Station 23100 Haskins Creek Rd, Yamhill, OR 97146	none	none
Columbia City Unit 405 E Street, Columbia City, OR 97018	(503) 397-2636	(503) 397-6361
Clatskanie Guard Station 76781 Palm Hill Road, Clatskanie, OR 97016	(503) 728-2150	none
Pittsburg Guard Station 62435 N Nehalem HWY, Vernonia, OR 97064	(503) 429-2501	none
JE Schroeder Seed Orchard 3700 Mahony Rd N, St. Paul, OR 97137	(503) 390-8480	(503) 390-6576
South Fork Camp 48300 Wilson River Hwy, Tillamook, 97141	(503) 842-7213	(503) 842-6572
Tillamook District 5005 3rd Street, Tillamook, OR 97141-2999	(503) 842-2545	(503) 842-3143
West Oregon District - Philomath 24533 Alsea HWY, Philomath, OR 97370	(541) 929-3266	(541) 929-5549
Dallas Unit 825 Oak Villa Road, Dallas, OR 97338	(503) 623-8146	(503) 623-9034
Toledo Unit 763 NW Forestry Road, Toledo, OR 97391	(541) 336-2273	(541) 336-5261
<b>Southern Oregon Area Offices</b>	<b>PHONE</b>	<b>FAX</b>
Southern Oregon Area/ Roseburg Unit 1758 NE Airport Road, Roseburg, OR 97470-1499	(541) 440-3412	(541) 440-3419
Coos District 63612 Fifth Rd, Coos Bay, OR 97420	(541) 267-4136	(541) 269-2027
Coos Forest Protective Association (CFPA)/ Coos Bay Unit 63612 Fifth Rd, Coos Bay, OR 97420	(541) 267-3161	(541) 269-2027

**ESF 4. Firefighting**

Bridge Unit 98247 Bridge Lane, Myrtle Point, OR 97458	(541) 572-2796	(541) 572-4316
Gold Beach Unit PO Box 603, Gold Beach, OR 97444	(541) 247-6241	none
Reedsport Sub-unit 2925 Longwood Drive, Reedsport, OR 97467	(541) 271-2224	(541) 271-9494
Wells Creek Guard Station 130 Wells Creek Road, Scottsburg, OR 97472	(541) 587-4346	none
Four Mile Guard Station 46946 HWY 101, Bandon, OR 97411	(541) 347-3400	none
Brookings Guard Station 555 5th Street, Brookings, OR 97416	(541) 469-2302	none
Haskins Creek Guard Station 23100 Haskins Creek Road, Yamhill, OR 97146	none	none
Douglas Forest Protective Association (DFPA) 1758 NE Airport Road, Roseburg, OR 97470	(541) 672-6507	(541) 440-3424
South Cascade District/ Eastern Lane Unit 3150 Main Street, Springfield, OR 97478	(541) 726-3588	(541) 726-2501
Sweet Home Unit 4690 HWY 20, Sweet Home, OR 97386	(541) 367-6108	(541) 367-5613
Southwest Oregon District/ Medford Unit 5286 Table Rock Road, Central Point, OR 97502	(541) 664-3328	(541) 776-6184
Grants Pass Unit 5375 Monument Drive, Grants Pass, OR 97526	(541) 474-3152	(541) 474-3158
Grants Pass Interagency Fire Center 657 Flaming Road, Grants Pass, OR 97526	(541) 471-6830	(541) 471-6888
West Lane District 87950 Territorial HWY, Veneta, OR 97487-0157	(541) 935-2283	(541) 935-0731
Florence Unit 2660 Kingwood Street, Florence, OR 97439	(541) 997-8713	(541) 997-3737

**Assets Continued**

- Three Incident Management Teams consisting of 33 personnel qualified through NWCG. Type 1 teams operate on a rotational system through the fire season. Type 1 teams include, mobile kitchen, showers, communications trailers and other support services;
- Type 1 incident management teams are staffed with ODF employees across the State plus one fire service structural liaison for each team.

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- Several days' worth of fuel for generators to sustain the three Incident Management Teams;
- Through the Fire Mobilization Plan, ODF is capable of mobilizing a substantial response to emergencies including incident management teams, public information personnel, radio systems, communications trailers, kitchens, shower units, and other support services.

#### Communications:

- Three Communication Unit trailers equipped with mobile repeaters;
- Seven Communications Technicians throughout the State to set up and manage the Communication Unit trailers, mobile repeaters and provide tech support;
- All repeater towers are accessible by 4WD vehicles;
- Bank of hand held radios;
- All ODF communications equipment is interoperable;
- ODF is capable of setting up interoperable communications anywhere.
- Have COOP and BCP that addresses primary facilities and capabilities;
- ODF has three fixed wing aircraft and contracts with aviation companies to provide rotary and fixed wing aircraft;
- Inventory and GIS mapping capability of public and private forest road networks;
- Dozers, earth moving and road building equipment located at various locations in the State;
- Three water trailers capable of carrying 1,000 gallons of potable water, each;
- MOU's with all local fire jurisdictions;
- MOU's with federal firefighting agencies; Forest Service, BLM (Bureau of Land Management), BIA (Bureau of Indian Affairs), National Parks, US Fish and Wildlife Service, National Wildfire System for support;
- Wildland Fire Engines, water tenders and personnel for emergency response located throughout the State;

#### Personnel:

- Approximately 800 full time employees located at offices throughout the State;
- Approximately 800 seasonal employees (summer) located at offices throughout the State;
- Retiree and previously qualified personnel can be used to supplement personnel;
- Meteorologists on ODF staff;
- All incoming personnel assistance from other states is trained to the same national standard;
- Have road engineers who can determine roadway safety and landslide probability;
- Retiree, qualified personnel can be used if available;
- Look out towers with cameras located throughout State;
- Automated weather stations deployed in forested areas throughout the State capable of transmitting a constant stream of weather data.

#### **Capabilities**

- The primary response mission of ODF is wildland firefighting.
- Tasked with protection of approximately 16 million acres (24,900 square miles) of private and public forestland from fire. The acreage protected includes 3.5 million acres of wild land-urban interface, which are forest lands with residences and other structures within the reach of wildfire in that area.
- Provide logistical support for other State and local responders;
- Through forest road inventory of public and private lands, ODF is capable of identifying alternate access to areas if main roadways are impassable or damaged;
- Private sector contracts and relationships with private forest land owners enables access to private logging roads and logging equipment, for wildland firefighting and road clearance;
- Private sector contracts with aviation companies to provide rotary and fixed wing aircraft;
- Using ODF aircraft, or contracted aircraft, can conduct aerial assessment and wildland firefighting missions;
- Has equipment and personnel to open forest road systems;
- Some road construction (gravel road) capability;
- Work with County Sheriff's and ODOT to establish evacuation routes;
- Provide situational awareness and public outreach concerning wildland fire.

#### **Catastrophic Event Operational Challenges**

- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment;
- Lack of normal communication systems will impact the ability to call up personnel resources;
- Personnel resources living / working in the inundation areas will be compromised by the event;
- Unable to contact usual public sector contractors for support if normal communication systems are down;
- Accessible and usable roadway networks;
- ODF can protect urban / wild land interface only, not trained to provide support for structural firefighting.

#### **Support Needed Immediately After a Catastrophic Event**

- It is very unlikely that response to this kind of incident can be done with the current amount of equipment and personnel;
- Accessibility to fuel resources;
- Water;
- Additional trained personnel to assist with ODF operations;
- Transportation assistance to reach ODF facilities and/or impacted areas;

- Aerial (fixed wing and rotor) support for evacuation, resupply and insertion of teams.

#### **3.1.2 Office of the State Fire Marshal**

OSFM manages and coordinates Oregon’s firefighting activities. This function is accomplished by mobilizing firefighting resources in support of State, Federal, and local wildland, rural and urban firefighting agencies.

The mission of the OSFM is to protect life, property and the environment from fire and hazardous materials.

As described in the *State Fire Service Plan*, the OSFM may coordinate and direct the activities of all structural firefighting resources of the State through the organization of State and county fire defense boards and their respective mutual aid agreements.

- OSFM is responsible for planning and implementing response by structural firefighting forces called up by the Governor under the “Conflagration Act” (ORS 476.510 to 476-610).
- OSFM coordinates and directs three Type 2 all-risk incident management teams and advanced communication equipment. The teams are staffed with local fire officers and OSFM employees.
- OSFM is a member of the Pacific Northwest Wildfire Coordination Group and serves as Oregon State Police fire prevention and control liaison with State and federal fire protections agencies, including Oregon Department of Forestry, US Forest Service and the Bureau of Land Management.
- OSFM operates an Agency Response Center within the State ECC on an “as needed” basis.

#### **Priorities**

- Life and safety of responders and affected public;
- Coordination and direction of structural firefighting resources of the State through the organization of State and county fire defense boards and their respective mutual aid agreements;
- Search and rescue;
- Hazardous materials response;
- Incident management;
- Responding to calls for OSFM for implementation of Conflagration Act.

#### **Assets**

- Three Incident Management Teams for coordination, which include certified safety officers;
- Three type 1 USAR trailers in the State: Clackamas, Salem, Eugene. Personnel resources come from local fire departments;
- 13 HAZMAT trucks and personnel in the State – regionally deployed. Trucks include hand pumps which can be used to hand pump gas. HAZMAT Teams in Astoria and Coos Bay will be impacted by the event, and cannot be counted on;
- HAZMAT and SAR teams are trained to the national standard;

### ESF 4. Firefighting

- All specialized responders are required to bring enough personal food and water for 72 hours;
- 13 Deputy Fire Marshals throughout the State;
- Three communications trailers (small 4X6 box trailers). Communication trailers include: programmable base station, mobile repeaters, and generators;
- One truck capable of hauling trailers;
- Cache of 150 interoperable / programmable portable handheld radios.

#### **Capabilities**

- Using the “Conflagration Act” (ORS 476.510 to 476-610) the State Fire Marshal has the authority and ability to activate local assets on behalf of the State, from cities not impacted by the event;
- Incident management;
- Mobilization and Coordination of firefighting resources;
- Fire investigation responsibility;
- Regulate and maintain current State fire code;
- Inspection of hospitals and care facilities to ensure that they meet the ‘life safety’ code;
- Direction and maintenance and use of the Statewide Fire Net/HAZMAT microwave relay radio system;
- Transportation of communication trailers to impacted areas;
- Providing local communications between responders and IMT’s;
- Set up mobile communications and command centers with IMT’s;
- Provide hazardous materials response.

#### **Catastrophic Event Operational Challenges**

- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as ‘available’ for mission deployment;
- Lack of normal communication systems will impact the ability to call up personnel resources;
- Personnel resources living / working in the inundation areas will be compromised by the event;
- Unable to contact usual public sector contractors for support if normal communication systems are down;
- Accessible and usable roadway networks;
- Loss of power and lifeline roadway systems will impact communications and limit firefighting capabilities.

#### **Support Needed Immediately After a Catastrophic Event**

- EMAC firefighting resources, personnel, HAZMAT teams and equipment, USAR teams and equipment, mobile interoperable communications, and base camps.
- Equipment and repair abilities to fulfill ESF-4 mission tasks;

- Fuel for generators and vehicles to include fuel for resources responding under the Conflagration Act;
- Roadway accessibility;
- Air resources to move equipment and personnel.

## 3.2 Support Agencies

### 3.2.1 Oregon Military Department

#### Priorities

- Immediate assessment of surviving equipment and units available for response (including maintenance facilities);
- Ensure usability and safety of OMD facilities;
- Establish communications with OMD facilities Statewide and begin implementation of Area of Responsibility (AOR) plans;
- Recall of personnel;
- Identify fuel and communications capabilities;
- The Oregon National Guard may engage in immediate lifesaving response actions for up to 72 hours at individual unit commander's decision;
- Respond to mission tasking by OEM.

#### Capabilities

- Providing wildland firefighting support;
- Debris clearance;
- Aviation assets to support firefighting operations;
- Air guard has firefighters at Kingsley and PANG airfields;
- Assist with resource distribution;
- Potable water transportation;
- Assist fire operations in establishing communications networks with fixed and mobile radios;
- Provide aerial surveillance;
- Provision of limited electric power from portable generators;
- The Guard may also assist in search and rescue, lifesaving and air ambulance missions.

#### Assets

- Air guard has firefighters at Kingsley and PANG airfields;
- Aviation assets to support firefighting operations;
- Retardants for firefighting;
- Wildland firefighting gear and vehicles located at Astoria and Biak.

#### Catastrophic Event Operational Challenges:

- Guard is unable to respond to structural fires;
- Limited water availability assets;

- “Red Card” firefighting training time for Guard Members.

**Support Needed Immediately After a Catastrophic Event**

- Fuels and transportation/storage of fuel;
- Additional fixed and rotary aircraft and assets;
- Additional supplies of firefighting equipment;
- Additional retardant supply.

**3.3 Adjunct Agencies**

**3.3.1 Department of Corrections**

**Capabilities**

- Provide Central Distribution Center (CDC) as possible repository for national stockpile operations;
- Each DOC facility has medical personnel to help injured at the facilities;
  - Basic medical needs of inmates & staff are met on site at each facility
- Inmate crews can help with USAR & fire teams (set up base camp, provide food, keep things going for the professional USAR teams from the base camps);
- Clean-up crews (debris removal);
- Fire suppression assistance (wildland);
- DOC can supply trained inmate flaggers;
- Can provide temporary housing (Fire camp tents or at unused /underused DOC facilities);
  - 10% of beds in prison facilities can be used for temp housing
- Provide equipment and operators;
  - Evacuations (moving people)
  - Trucks, bulldozers, other heavy equipment
- Can possibly augment response with DOC fuel supplies;

**Assets**

- DOC manages 15 correctional facilities in Oregon and two distribution facilities (Salem & Ontario);
- Facilities have heavy equipment (trucks, bulldozers, etc.) in Salem (near Lancaster & State Streets) & Ontario (Snake River Distribution Area) storage locations;
  - Semi-trucks (sleepers)
  - Also have refrigeration & dry good trucks
  - Vehicles have manual fuel pumps on board
  - Some earthmoving equipment (bulldozers, dump trucks)
  - Staff at every facility have CDLs
  - Trained forklift operators (staff and inmates)
- Approximately 143,000 gallons of diesel stored at central processing location;

- Fuel on site at all DOC facilities (need State Voyager card to fuel);
- Limited skill levels on inmate crews;
  - Downed tree cleanup & debris cleanup
  - Chainsaw brigade
  - Flaggers
  - Maintenance
  - Mechanics
- ODF wildfire assistance camp;
  - Crews no longer in use since 2011
  - Equipment and “mobile camp” still exists and could be utilized
- Fire crews (can be deployed with responders & under supervision)
  - Trained to live in tents
  - Trained to live in fire response environment
  - Have own resources / supplies with them
- Two structural engineers on contract (one in south part of Oregon, one in northern);
- Certified tactical team / WMD (one in Oregon);
  - Specialty team (18 operators per team)
  - Training in line with law enforcement trained officers;
- Staging Areas could be located outside on DOC properties;
- Mobile Kitchen (Food prep for crews / personnel / housing);
  - USAR team support (at base camps)
  - Fire team support (at base camps)
- Critical Stress Incident Management (CSIM) – crisis counseling team;
  - Line of duty death
  - Peer counseling
  - Family death
  - CSIM counselors (ESS group) have lawyer/client privileges
  - Could be used in State ECC and other facilities for responder staff members
- Gang Task Force (could be tasked by State and used for security);
  - Not as prepared for Riot-type situations as police
  - Can be deputized to function as law enforcement
  - Provide security for firefighters and EMS
- Have backup and interoperable communications on site at DOC facilities;
  - Locations east of Cascades facilities may be able to immediately assist State with communication capabilities

- DOC Facilities have generators and back-up fuel;
- All correctional facilities in Oregon have current and constantly updated emergency management plans;
  - Staff well trained to activate plans and respond
  - Very comprehensive plans for all scenarios
  - Plans exercised (and plans activated for many other scenarios routinely)

#### **Catastrophic Event Operational Challenges**

- DOC will maybe have 10% of personnel to assist with Statewide response;  
  
DOC can go 2-3 days (realistically, at best) without staff relief for their own facilities;
  - Possibility some of DOC staff will walk off job in this event to care for families
  - DOC will be short staffed immediately after any event like this and may initially need assistance with their own tasks.
- Access to facilities West of Cascades.

#### **Support Needed Immediately After a Catastrophic Event**

- By nature of a catastrophic event, essential personnel will be delayed in response due to commitments to personal and family safety and security. Responses will be delayed as personnel check in as 'available' for mission deployment;
- Accessibility to fuel resources;
- Additional trained personnel to assist with DOC operations;
- Transportation assistance to reach DOC facilities;
- Aerial (fixed wing and rotor) support for evacuation, resupply and insertion of teams.

## **4 ESF-4 Operations**

OEM will coordinate all requests for assistance and communicate with the State agencies to identify the appropriate action and State resources to be used. Once firefighting assets have been identified to meet the request, OEM will create an action and assign it to the specific State agencies to accomplish the task.

ODF and OSFM will provide a representative to the ECC who will be the primary point of contact for all ESF 4 needs. Both agencies maintain Agency Operations Centers (AOC) off site to specifically manage and coordinate their resources.

ODF is responsible for the prevention and suppression of wildfires on ODF protected lands, which includes all "classified forestland" (ORS 526.320) within "protection district boundaries" (ORS 477.225) in addition to all lands protected by contract or agreement (477.406). ODF does this work independent of the ESF planning document.

In the past, ODF has been called upon by the Governor's emergency declaration process to support all risk incidents, including wildfire suppression on non-ODF protected lands.

#### 4.1 Objective

To coordinate and mobilize fire and emergency services resources, personnel and equipment; and to coordinate other State resources to support local governments in detecting and suppressing urban, rural and wildland fires after the impact of a Cascadia Subduction Zone earthquake and resulting tsunami.

#### 4.2 Challenges

- Limited firefighting resources available;
- Multiple fire incidences occurring simultaneously;
- Available firefighting resources will be committed to other tasks (SAR, etc.);
- Damaged infrastructure hampering the ability to fight fires.

#### 4.3 Assumptions

- Widespread and simultaneous Statewide fire incidents, over urban, rural and wildland areas;
- Many firefighting resources likely will be utilized for search and rescue of trapped persons and in the control and containment of HAZMAT;
- Fires will be occurring as a result of ruptured gas lines and electrical infrastructure damage;
- Fire mutual aid will be sharply limited within the affected areas as the event affects many jurisdictions simultaneously;
- Broken water supply lines, search and rescue operations, communication issues and lack of mobility due to damaged roadways will hamper fire response;
- All available local firefighting resources will be committed, or damaged. Additional help will be needed from around and beyond the State;
- Coordination and direction of the local efforts, including volunteers, will be required;
- Aerial attack by air tankers, helicopters, and smokejumpers may be essential in these situations. Helicopters will be scarce resources and useable airports will be congested;
- Wildland firefighting forces may be diverted to assist in the control of fires in rural and urban areas because of more urgent threats to life, property, and the environment, and due to shortages of urban firefighters required to respond to other types of emergencies;
- Fire resources will be tasked with a variety of missions, many of which will not directly relate to fire suppression.

4.4 ESF 4 Shortfalls and Requirements

SHORTFALLS	REQUIREMENTS
Available trained firefighting personnel and equipment.	<ul style="list-style-type: none"> <li>▪ Additional structural and potentially wildland firefighters and equipment from non-impacted areas.</li> <li>▪ Adequate equipment, personal protective equipment, and the ability to meet these responders needs for the impacted area.</li> <li>▪ Tactical Communication Support.</li> <li>▪ Fuel for responding vehicles.</li> <li>▪ Accessible roadways.</li> <li>▪ ESF 4 coordination to prioritize the use of limited assets.</li> </ul>
Limited capability to access impacted areas.	<ul style="list-style-type: none"> <li>▪ Coordination with ESF-1 to identify and prioritize accessible roadways and to support ESF-4 operations</li> <li>▪ Aerial transportation of crews and equipment to impacted areas</li> </ul>
Damaged water lines and hazardous power and gas lines impacting efficient ESF-4 response	<ul style="list-style-type: none"> <li>▪ Prioritizing damage assessment and repair of infrastructure to maximize firefighting effectiveness.</li> <li>▪ Identify alternative water sources and methods of utilization in the Operational Areas.</li> <li>▪ Coordination with ESF-2 and ESF-12 to identify hazardous gas lines and areas of concern.</li> </ul>

4.5 Concept of Operations

Hazard analysis indicates as a result of an earthquake and subsequent tsunami, it will ignite structural and potentially wildland wildfires across Western Oregon. Available firefighting personnel will be limited and equipment will be damaged or their abilities degraded due to lack of support infrastructure. Significant resources and qualified personnel from areas outside impacted areas will be needed, but transport of Statewide assets will be limited.

ESF-4 functions include but are not limited to:

- Oregon “Conflagration Act” (ORS 476.510 to 476-610) will be immediately called upon by the State Fire Marshal to activate local assets on behalf of the State, from cities not impacted by the event;
- Assist with the coordination of mutual aid;

### ESF 4. Firefighting

- Firefighting operations will be managed using ICS. Situation and damage assessment information will be transmitted through established fire suppression intelligence channels to the State ECC and to federal partners;
- Coordinate with ESF-2 the utilization of communications systems for firefighting response;
- Support local fire departments with appropriate resources to include mobilizing and deploying firefighting teams and resources as needed. State and other local resources from outside the disaster area are committed through coordination with other agencies that have firefighting resources;
- Coordination for use of State wildland firefighting assets to support firefighting operations, when necessary;
- Provide coordination, technical assistance, and/or resources to detect and suppress urban, rural and wildland fires;
- Coordinate preposition response resources when it is apparent that firefighting resources will be necessary;
- Coordinate relocation of firefighting resources when it is apparent that they are endangered by the likely impacts of the emergency situation;
- Coordinate with ESF-1, ESF-13, and local response to provide crowd control, security measures, roadway assessments, and ingress/egress actions to protect the public and property in, near and around areas involved in firefighting operations;
- Coordination with ESF-10 to keep responders informed of hazardous material in response areas;
- Coordinate with ESF-3 and ESF -12 to address fire prevention and suppression problems (i.e. leaking natural gas, downed power lines, water flow problems, etc.) ;
- Coordinate with ESF -1 for use of ODOT assets to support firefighting operations, when requested;
- Submit requests through EMAC for response beyond the State’s capabilities.

## 5 Supporting Documents

- National Response Framework, ESF 4 – Firefighting
- County ESF 4 Annexes
- County Community Wildfire Protection Plans
- Master Cooperative Fire Protection Agreement
- State Fire Service Mobilization Plan
- “Conflagration Act” (ORS 476.510 to 476-610)

## 6 Appendices

None at this time.