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ESF 12 – Energy

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ESF 12 Energy Tasked Agencies	
Primary Agencies	Klamath County Emergency Management
Supporting Agencies	Energy, utility, and fuel companies Public utility districts Klamath County Community Development Department Klamath County Public Works Department
Adjunct Agencies	City departments/organizations Electric power districts Oregon Department of Energy Oregon Department of Transportation Oregon Emergency Management Oregon National Guard Federal Emergency Management Agency

1 Purpose and Scope

- The purpose of this annex is to provide a framework of coordination between agencies to help ensure the safety of life and property during electric power failures affecting Klamath County.
- It defines roles, responsibilities, and organizational relationships of government and private agencies in response to power failures.
- The primary focus of this annex is on power failures and the affect they could have on the safety and security of the population - and economic and business activity within the County.

2 Policies and Agreements

The following policies and agreements are currently in place.

- None at this time.

3 Situation and Assumptions

3.1 Situation

- Power resources (generation, transmission and distribution) have become the most important element of infrastructure in our economy. The interruption of power causes widespread disruption of services immediately to any community, and Klamath County is no different.
- Klamath County may experience power failures or outages ranging from a few hours to several days. Power failures may result from any of the following causes.

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- Ice and high winds may bring down electric power lines over a wide area, causing widespread outages.
- An earthquake could topple transmission towers or distribution lines; or severely damage substations, resulting in widespread outages.
- Vandals or terrorists could attack power infrastructure, causing power failures and lengthy outages by using basic conventional weapons.
- Technological failures, such as flashovers on high voltage lines, could cause generators to automatically trip off-line. This could result in cascading outages affecting Klamath County.
- Power failures often occur along with other serious disruptions, such as heat waves, cold snaps, windstorms, snow storms and other severe weather phenomena. Resources can be stretched to the limit, degrading response and recovery operations.
- Power failures and outages could impact Klamath County in any or all of the following ways.
 - Loss of air condition or heating to residences, businesses and private and public buildings.
 - Streets lights, traffic lights and other public safety equipment could be out of service.
 - ATMs and banking activities could be interrupted.
 - Telecommunications and information infrastructure could be impaired.
 - Pumps in gasoline stations could be out of service.
- Power transmission from and to California and the Northwest is dependent on the Bonneville Power Administration (BPA) high voltage transmission lines. The Malin Substation in Oregon is the major hub for controlling all power between the two regions.
- PacifiCorp operates the Link River Dam at the mouth of Upper Klamath Lake under contract to the United States Bureau of Reclamation. The dam releases water to the Eastside and Westside Power canals and to the Link River. Below Lake Ewauna the Klamath River continues south. Inflows from the Lost River Diversion Dam, return flows from the Klamath Straits, and spring flows that enter at Keno contribute to additional power production at J.C. Boyle Dam at

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the Oregon-California border. Copco No. 1 and No. 2 and Iron Gate hydroelectric projects are further downstream. None of these projects have significant water storage capabilities, and so all electrical generation is dependent on water releases at Link River Dam and water management within the Klamath Project.

3.2 Assumptions

- A severe natural disaster or other significant event can sever energy and utility lifelines; hinder supplies in impacted areas or in areas with supply links to impacted areas; and affect firefighting, transportation, communication, and other lifelines needed for public health and safety.
- There may be widespread and/or prolonged electric power and/or natural gas failure. With reduced electric power or natural gas, communications, transportation, healthcare, business, education, banking, and infrastructure will be greatly impeded.
- An extensive pipeline failure in a natural gas system component may take a long time to repair.
- Broken natural gas lines can be a fire hazard.
- Nearly all power failures and outages occur without warning.
- Restoration of electric service will lead to stabilization of emergency conditions.
- As urbanization and dependency on electric power increases, the potential problems and impacts that power failures can have on County resources will be compounded.
- All County equipment and personnel will be available to cope with emergency conditions. Assistance through mutual aid agreements may be necessary.
- Additional resources may be obtained through contracting with local vendors.

4 Roles and Responsibilities

4.1 Local Task Assignments

4.1.1 Klamath County Emergency Management

- Monitor the impact of the power outage throughout the County. Coordinate closely with Pacific Power and alert department heads, and other key staff of the status and expected duration of the outage.

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- If deemed appropriate, make recommendation to the Board of County Commissioners to implement the Incident Command System, open the Emergency Operations Center and/or declare a disaster.
- If the Emergency Operations Center (EOC) is not activated, the Klamath County Emergency Management (KCEM) is responsible for ensuring inter-department and inter-agency coordination.
- Inform Oregon Emergency Response System (OERS) of the status of the outage and efforts to respond and recover from emergency conditions.
- Maintain liaison with local utilities and sources of fuel (e.g., gasoline, kerosene, and propane vendors), including the ability to contact them on a 24-hour-a-day basis.
- Coordinate assistance to support local utility, energy, and fuel providers, as requested.
- In coordination with County Department heads, identify critical county facilities and equipment for which emergency backup energy generation is imperative and determine the methods for providing temporary power in an emergency.

4.1.2 Utilities and Private Purveyors

- Maintain and control energy and fuel systems within their authority.
- Coordinate with county Emergency Management during an emergency and provide a liaison to the EOC if requested.
- Perform damage assessments on systems and identify problems or shortfalls in supply to the EOC. Provide damage assessment information to the EOC.
- In coordination with county government, regulate commodity usage in times of shortage, as appropriate, and establish priorities for use.
- Identify temporary or alternative sources of fuel and energy while damaged systems are being restored.
- Restore damaged systems.
- Identify potential areas for mitigation strategy.

4.1.3 Building Maintenance Department

- The Building Maintenance Department is responsible for maintaining and implementing departmental contingency plans in the event of power failure.

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- Building Maintenance should ensure that the emergency generators for County facilities are operational and tested periodically.
- Building Maintenance will ensure all fuel tanks for emergency generators are filled.

4.1.4 Public Works

- In conjunction with the Sheriff's Department and Fire Districts, Public Works will provide road signs and barriers as needed.

4.1.4 Klamath County Sheriff's Department

- The Sheriff's Office is responsible for maintaining and implementing departmental contingency plans in the event of power failure.
- In the course of patrols during power outages, assist local law enforcement to direct traffic at congested intersections where traffic lights are out of service.
- Limit or restrict travel on County roads that pose special hazardous conditions due to power failure.

4.2 State of Oregon**4.2.1 Oregon Emergency Management (OEM)**

- Alert appropriate state agencies of the possible requirements to supplement local energy and utility needs.
- Coordinate with the Public Utility Commission to provide supplemental assistance to local government.

4.3 Federal**4.3.1 Federal Emergency Management Agency**

- Coordinate the activities of federal agencies having supplemental energy and utility resources capabilities during a presidential declared emergency or disaster.

5 Concept of Operations**5.1 General**

- Restoration of electric power is the responsibility of Pacific Power and Light (PP&L). PP&L maintains and tests emergency plans that will

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enable damage assessment, location of the source of the outage, prioritization and restoration of electric service.

- If the outage originates on the BPA transmission system, PP&L will work closely with BPA to locate the source of the problem and restore power.
- County Emergency Management and each County department need to have contingency plans for power failures and outages.
- Critical County facilities should have Uninterruptible Power Sources and emergency generators with dedicated, secure external fuel tanks.
- Planning, preparing for and coordinating the response to power failures are primarily the responsibility of Klamath County Emergency Management. Other County departments are responsible for planning to recover and maintain their own operations and services during power outages.
- Under most circumstances, response to and recovery from power failures will be managed through each County Department director.
 - Depending on the scope of the incident, the County EOC may be partially activated and some assistance from other departments may be needed in the EOC.
 - Some circumstances may require a unified command. For example, joint efforts of the County Incident Commander (IC) and the Pacific Power IC may be needed to more efficiently manage response and recovery resources.
 - In extreme cases, full activation of the County EOC may be required. In this case, representatives of Pacific Power should have key liaison positions in the EOC.

5.2 Response

5.2.1 Building Maintenance Department

- The Building Maintenance Department is responsible for maintaining and implementing departmental contingency plans in the event of power failure.
- Building Maintenance should ensure that the emergency generators for County facilities are operational and tested periodically.
- Building Maintenance will ensure all fuel tanks for emergency generators are filled.

■ 5.2.2 Public Works

- In conjunction with the Sheriff's Department and Fire Districts, Public Works will provide road signs and barriers as needed.

5.2.2 Klamath County Sheriff's Department

- The Sheriff's Office is responsible for maintaining and implementing departmental contingency plans in the event of power failure.
- In the course of patrols during power outages, assist local law enforcement to direct traffic at congested intersections where traffic lights are out of service.
- Limit or restrict travel on County roads that pose special hazardous conditions due to power failure.

5.2.3 Klamath County Emergency Management

- Monitor the impact of the power outage throughout the County. Coordinate closely with Pacific Power and alert department heads, and other key staff of the status and expected duration of the outage.
- If the EOC is not activated, KCEM is responsible for ensuring inter-department and inter-agency coordination.
- Inform OERS of the status of the outage and efforts to respond and recover from emergency conditions.

5.3 Interagency Coordination

5.3.1 Power Outages

- PP&L will provide response to the loss of commercial power.
- During large emergencies when the EOC or Incident Command Post (ICP) is activated, a PP&L liaison should be available to the County EOC.

5.3.2 Shelters

- (Also see ESF 6 – Mass Care, Emergency Assistance, Housing and Human Services)
- If temporary lodging is needed due to a power outage, the American Red Cross may activate and provide information to the public on shelter locations. The Red Cross will manage shelter operations for the shelters that they activate.

5.3.3 Assistance Agencies

- The Klamath Basin Senior Citizen Council can assist in locating and contacting individual elderly citizens who may need assistance during power outages.
- The Senior Citizen Center may also be a resource.

5.3.4 Emergency Transportation

- Sources of emergency transportation include public transit companies, school districts, four wheel-drive clubs, and under a declared emergency, the National Guard. (Also see ESF 1 Transportation)

6 Direction and Control

- It is expected that public and private energy utilities, such as those that provide power, natural gas, and petroleum, will develop internal organizational procedures that will guide operations after an emergency or disaster. Those procedures should facilitate the basic assessment of what happened, what can be done about it, and what is needed. If appropriate, this information should be provided to the Klamath County IC and/or EOC as soon as possible.
- Contact with utility providers will be established by the IC to coordinate resources, establish priorities, assess and document damages, and provide information to the public. The IC may initiate information programs to keep the public informed of utility status and any restrictions.
- Pacific Power will provide response to the loss of commercial power. During large emergencies when the EOC is activated, a Pacific Power liaison maybe needed in the County EOC.
- Other utility providers will be invited to send a liaison to the county EOC to facilitate coordination between agencies.
- Requests for assistance are primarily made by utility providers through existing mutual aid agreements with other providers. The EOC may assist with coordinating outside resources, upon request.
- KCEM office may advise public utilities operating in Klamath County of any emergency restrictions or operating policies established by county government. The County KCEM office may also coordinate with OEM.

7 Supporting Plans, Procedures and Information

- National Response Framework, ESF 12 – Energy
- State Emergency Operations Plan, ESF 12 - Energy

8 Appendices

None at this time.

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