



ESF-12 Energy and Utilities

JOHNSON COUNTY EMERGENCY OPERATIONS PLAN

- Coordinating Agency:** Johnson County Wastewater
- Support Agencies:** Electricity Service Providers (public and private)
Gas Utility Providers
Johnson County Public Works
Phone & Internet Service Providers
Wastewater Utility Providers
Water Utility Providers (public and private)

INTRODUCTION

Purpose

The purpose of *ESF-12 Energy and Utilities* is to establish how activities will be coordinated to ensure for continued operation and/or restoration of essential utility services to meet the needs generated by disasters affecting Johnson County.

Scope

This annex identifies the key policies, concepts of operations, roles and responsibilities, and capabilities associated with Energy and Utilities in Johnson County. Specific operating procedures and protocols are addressed in documents maintained by the participating organizations. ESF-12 Energy and Utilities applies to all individuals and organizations that may be involved in Energy and Utilities supporting disaster response and recovery operations in Johnson County.

For ESF-12 Energy and Utilities purposes, the following items are defined as:

Energy refers to the electricity, natural gas, and petroleum products usually transmitted through utility systems;

Utilities refer to the comprehensive system which generates, transmits, distributes, and maintains energy, water, wastewater, and communications for public consumption.

The activities within the scope of this function include, but may not be limited to:

- Estimate number of customers with utility outages,
- Assess energy and utility system damages,
- Estimate the time needed for restoration of utility systems,

- Support the restoration of utility services,
- Assist in assessing and addressing emergency energy and utility needs and priorities,
- Coordinate restoration efforts with utility providers to prioritize emergency needs,
- Provide emergency information, education, and conservation guidance concerning energy and utility systems.

SITUATION & ASSUMPTIONS

In addition to the “Situation and Assumptions” section in the Basic Plan, the Concept of Operations for ESF-12 is based on the following:

Situation

1. It is recognized a widespread utility outage could significantly impact Johnson County and the entire metro-area. Major utility outages have seriously affected the County and the region in the past.
2. Maintaining energy and utility systems following an emergency is critical to protecting lives and property and maintaining continuity of government, emergency services, transportation, the local economy and other critical services and infrastructures.
3. County and city governments have very limited capabilities to provide emergency power. Portable generators are available to rent from a number of private companies in the Kansas City metropolitan area.
4. County and city governments have very limited capabilities to provide potable water. Potable water is available from the various water companies in Johnson County on a limited basis. Johnson County may need to obtain tanker trucks for transport of the water. In addition, all of the water suppliers have mutual aid agreements with each other to support this capability.
5. The U.S. Occupational Safety and Health Administration (OSHA) has specific requirements regarding potable water and sanitation. This would include any/all activities associated with construction, emergency response, mitigation and prolonged work sites. The KDOL/Division of Industrial Safety and Health will provide guidance in these areas, referencing both OSHA 29 C.F.R.1910 and 29 C.F.R.1926.
6. The jurisdictional water districts, with support from Johnson County Environmental Department, are responsible for conducting inspections of water supplies and addressing contamination issues.

7. Continued information sharing and coordination between utility partners and Johnson County is critical to ensure priority restoration and recovery.
8. In Kansas, the Kansas Corporation Commission (KCC) regulates natural gas, electricity (excluding the municipalities), telephone and motor carriers. The KCC Website at www.kcc.state.ks.us provides information on regulated utility systems and key state contacts.
9. Kansas Pipeline Association is responsible for providing local government agencies with information on pipelines in their jurisdictions. If pipelines are affected, the Kansas Pipeline Association (see www.kpa-awareness.com) may lend assistance.
10. In the event local EOCs and EMAs need assistance in locating propane resources, the Propane Marketers Association of Kansas (see www.pmak.org) may assist in locating additional propane resources, or identifying suppliers outside the region.

Assumptions

1. A major emergency may cause widespread and possibly prolonged electric power outages or interruptions and/or disruption to the supply and distribution of energy and utility systems.
2. Damage to energy and utility systems in one jurisdiction in the region may affect the supply of energy and utilities to other jurisdictions relying on the same systems.
3. Delays in the delivery of petroleum-based fuel products may occur as a result of the loss of electric power.
4. Long-term disruption of energy and utility services may increase the need to establish mass care operations and/or to acquire portable power generating systems.
5. In major events, state and federal resources may be provided to assist with energy and utility system restoration, but their ability to react quickly may be limited.
6. Utility providers will work with Johnson County Emergency Management to ensure critical facilities are appropriately considered for priority restoration. A list of these facilities is available in the EOC and will be updated based on the situation and impact of the disaster.

CONCEPT OF OPERATIONS

1. Energy and utility providers will respond to emergency/disasters in accordance with their policies and procedures.

2. Energy and utilities field personnel will work within the Incident Command System (ICS) structure. Although they will remain under the direct control of their sponsoring organization, they will be assigned by the Incident Commander and/or the EOC Team to respond as necessary.
3. Johnson County Emergency Management should be kept informed of situations that require or have the potential to require county support or county-wide coordination. Upon being notified of such events, JCEM will activate the EOC as needed.
4. Johnson County Wastewater is the Coordinating Agency for ESF-12 and will contact the appropriate Energy and Utility companies, county departments, or ESF teams as necessary for a disaster. The most current list of the utility companies serving Johnson County and their contact information is available in the EOC.
5. The mission of ESF-12 Energy and Utilities is to ensure for continued operation and/or restoration of essential utility services to meet the needs generated by disasters affecting Johnson County. When the ESF-12 Team is activated in the Johnson County Emergency Operations Center (EOC), the ESF-12 Team will orchestrate the countywide coordination required to fulfill the mission of ESF-12. These activities will include:
 - a. Establish and maintain operational awareness of energy and utilities through direct communications links with operational units (both private and public) in the field and/or their appropriate coordinating entities;
 - b. Conduct Energy and Utilities disaster impact and needs assessments, prioritize ESF-12 operational objectives in alignment with the EOC Incident Support Plan, and coordinate ESF-12 county-wide response activities;
 - c. Collect and analyze information relevant to ESF-12 and report in WebEOC and EOC documents including EOC Incident Support Plans and Situational Reports;
 - d. Receive, manage, & track resource requests for ESF-12;
 - e. Ensure full coordination of activities with other groups within the EOC to assist in the development and maintenance of a common operating picture.
6. The activities carried out in the EOC by the ESF-12 Energy and Utilities Team will vary greatly depending on the scope of the event, and the energy and utility providers involved. The following are examples of activities potentially taking place in the EOC:
 - a. Work closely with energy and utility organizations to maintain current information regarding damage to supply and distribution systems, as well as estimates for restoration.
 - b. In a major utility outage, the ESF-12 Energy and Utilities Team will work closely with energy and utility providers to establish priority restoration based on critical public safety and infrastructure issues.

- c. In an event affecting water services (e.g., a wide-spread boil order), ESF-12 will assist ESF-15 in developing and disseminating county-wide public information (for example, issuing joint new releases).
 - d. In some situations it may be appropriate for representatives from energy and utility providers to join the ESF-12 team in the EOC to enhance coordination.
 - e. Assess the needs of energy and utility providers, help them obtain resources and help ensure required system restoration and protection tasks can be accomplished as quickly as possible.
 - f. Evaluate need for and recommend actions to conserve water, fuel, electric power, natural gas, and if necessary, make plans for energy rationing.
7. County/city public works departments will provide debris removal & disposal allowing clearance for utility workers to access critical locations. (See also ESF-3 Public Works and Engineering)
 8. In emergencies, Johnson County Public Works would be capable of assisting with some level of trash removal and some placement of portable toilets.
 9. All individuals/organizations involved in disaster response should collect and record information on the utilization of labor, materials, equipment, and disaster-related costs.

ROLES AND RESPONSIBILITIES

ESF-12 Energy and Utilities Team

The mission of the ESF-12 Energy and Utilities Team is to ensure the provision of Energy and Utilities required to meet the needs generated by disaster affecting Johnson County.	
Coordinating Agency	Johnson County Wastewater
Support Agencies	Electricity Service Providers (public and private) Gas Utility Providers Johnson County Public Works Phone & Internet Service Providers Wastewater Utility Providers Water Utility Providers (public and private)

<p style="text-align: center;">Core Capabilities</p>	<p><u>Infrastructure Systems</u> Mission Area: Response, Recovery Description: Stabilize critical infrastructure functions, minimize health and safety threats, and efficiently restore and revitalize systems and services to support a viable, resilient community</p> <ul style="list-style-type: none"> • Assists energy asset owners and operators with requests for emergency response actions as required to meet the County’s energy demands. • Identifies supporting resources needed to stabilize and reestablish energy systems. • Assists County departments and agencies by locating fuel for transportation, communications, emergency operations, and national defense, pursuant to the authorities available to the agency providing assistance. • In coordination with the Energy Sector-Specific Agency (DOE), addresses significant disruptions in energy supplies for any reason, whether caused by physical disruption of energy transmission and distribution systems, unexpected operational failure of such systems, acts of terrorism or sabotage, or unusual economic, international, or political events. • In coordination with the Energy Sector-Specific Agency (DOE), addresses the impact that damage to an energy system in one geographic region may have on energy supplies, systems, and components in other regions relying on the same system. • In consultation with energy asset owners and operators and the Energy Sector-Specific Agency (DOE), advises local, state, tribal, territorial, insular area, and Federal authorities on priorities for energy system reestablishment, assistance, and supply during response operations.
<p style="text-align: center;">Preparedness</p>	<ul style="list-style-type: none"> • Review the ESF-12 Annex annually and update as needed • Continually evaluate the capabilities required to accomplish the ESF-12 mission, identify any gaps, and leverage resources to address them • Manage the resolution of ESF-12 after-action issues • Develop and/or participate in relevant ESF related planning, training, and exercise activities at the local, regional, state, and/or federal level • Ensure necessary supplements to the ESF annex are developed and maintained (including emergency contact lists, resource lists, departmental/functional plans, procedures, protocols, & EOC job aids) • Ensure representatives from the Coordinating Agency and Support Agencies are fully trained and prepared to respond to the County EOC as ESF-12 Team Members
<p style="text-align: center;">Response</p>	<ul style="list-style-type: none"> • Establish and maintain operational awareness of Energy and Utilities through direct communications links with operational units (both private and public) in the field and/or their appropriate coordinating entities. • Conduct Energy and Utilities disaster impact and needs assessments, prioritize ESF-12 operational objectives in alignment with the EOC Action Plan, and coordinate ESF-12 county-wide response activities. • Collect and analyze information relevant to ESF-12 and report in WebEOC and EOC documents including EOC Action Plans and Situational Reports • Receive, manage, & track resource requests for ESF-12

	<ul style="list-style-type: none"> • Ensure full coordination of activities with other groups within the EOC to assist in the development and maintenance of a common operating picture
Recovery	<ul style="list-style-type: none"> • Coordinate the ESF-12 support of recovery activities • Coordinate the restoration of ESF-12 resources and/or capabilities as needed • Ensure ESF-12 Team Members and/or their agencies provide appropriate records of costs incurred • Conduct an ESF-12 after action review
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents

ESF-12 Energy and Utilities Coordinating Agency Responsibilities

Johnson County Wastewater	
Preparedness	<ul style="list-style-type: none"> • Ensure each of the preparedness responsibilities identified for the County ESF-12 Team (listed above) are accomplished • Maintain an inventory of agency resources • Maintain emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities support in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Ensure each of the response responsibilities identified for the County ESF-12 Team (listed above) are accomplished regardless of the activation/staffing level of the County EOC • Arrange for appropriate staffing of the County ESF-12 Team in the EOC throughout activations • Coordinate the ESF-12 Team activities in the County EOC
Recovery	<ul style="list-style-type: none"> • Coordinate the ESF-12 support of recovery activities • Coordinate the restoration of ESF-12 resources and/or capabilities as needed • Ensure ESF-12 Team Members and/or their agencies provide appropriate records of costs incurred • Conduct an ESF-12 after action review
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents

ESF Support Agency Responsibilities

Electricity Service Providers (public and private)	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement

	<ul style="list-style-type: none"> • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents
Gas Utility Providers	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents
Johnson County Public Works	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents
Phone and Internet Service Providers	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents
Wastewater Utility Providers	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources

	<ul style="list-style-type: none"> • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents
Water Utility Providers (public and private)	
Preparedness	<ul style="list-style-type: none"> • Assist with the ESF-12 Team preparedness activities (listed above) • Maintain an inventory of agency resources • Maintain agency emergency contact information
Response	<ul style="list-style-type: none"> • Provide Energy and Utilities in emergency/disasters, in accordance with departmental operations guides & protocols, existing MOUs & agreements, and the <i>ESF-12 Annex</i>. • Coordinate response activities with the County EOC in support of the ESF-12 mission • Send agency representatives to the County EOC as part of the ESF-12 Team when activated
Recovery	<ul style="list-style-type: none"> • Coordinate the restoration of agency resources and/or capabilities as needed • Participate in countywide recovery planning and activities • Prepare the documentation required to become eligible for reimbursement • Participate in after action reviews
Mitigation	<ul style="list-style-type: none"> • Identify and implement mitigation activities to prevent or lessen the impact of future incidents

POLICIES, AUTHORITIES, AND REFERENCES

Please refer to the Basic Plan for additional Policies, Authorities, and References.

State Authorities

- K.S.A 12-16,117: Municipal policies regarding the provision of assistance during times of disaster; immunity from liability.
- K.S.A. 66-1711: Outlines restriction of activities within 10 feet of high voltage overhead line (also known as the 10 foot rule).
- K.S.A. 74-620: requires the KCC to develop rules and regulations to establish priorities for electric and natural gas allocations that applies to "all suppliers and consumers of natural gas and electric energy."
- K.S.A. 50-627: Unconscionable acts and practices (price gouging)

Federal References

Federal Energy Regulatory Commission (FERC): The Federal Energy Regulatory Commission, or FERC, is an independent agency that regulates the interstate transmission of electricity, natural gas, and oil. The responsibility of FERC are provided in "The Energy Policy Act of 2005."

North American Electric Reliability Council (NERC): The NERC is a coordinating body responsible for working with all stakeholders to develop standards for power system operation, monitoring and enforcing compliance with those standards, assessing resource adequacy, and providing educational and training resources as part of an accreditation program to ensure power system operators remain qualified and proficient. NERC also investigates and analyzes the causes of significant power system disturbances in order to help prevent future events.

Southwest Power Pool (SPP): SPP is a Regional Transmission Organization, mandated by the Federal Energy Regulatory Commission to ensure reliable supplies of power, adequate transmission infrastructure, and competitive wholesale prices of electricity. As a North American Electric Reliability Corporation Regional Entity, SPP oversees enforcement and development of reliability standards.

National Electric Safety Code (NEC): The National Electrical Safety Code (NEC) sets the ground rules for practical safeguarding of persons during the installation, operation, or maintenance of electric supply and communication lines and associated equipment. The NEC continues to be a stronghold in the U.S. electrical industry and communications utility field, and serves as the authority on safety requirements for power, telephone, cable TV, and railroad signal systems. The Kansas Cooperation Commission adopts all NEC regulations in the state.

PHMSA: Pipeline and Hazards Materials Safety Administration. PHMSA's mission is to protect people and the environment from the risks inherent in transportation of HazMat - by pipeline and other modes of transportation.

State References

IAW BER POLICY BER-AIRS-047: The Kansas Department of Health and Environment, Bureau of Environmental Remediation (BER), Response Unit is responsible for ensuring that contamination of soils and waters of the state emanating from transformer oil spills does not impact human health and the environment. The Transformer Oil Spill Cleanup Policy will be used to provide a consistent approach for the cleanup of transformer oil spill sites.