

## **EMERGENCY SUPPORT FUNCTIONS # 3 PUBLIC WORKS**

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### **PRIMARY**

ESF 3 Coordinator- Henderson City Public Works Director, Henderson County Road Engineer

### **LOCAL SUPPORT**

Henderson City and County Elected Officials  
 Henderson County Emergency Management Agency (EMA)  
 Henderson County Sheriff's Department  
 Henderson City Police  
 Henderson City Fire Department  
 Henderson County Health Department  
 Henderson County Road Department  
 Henderson City Street Department  
~~Tri County-Solid Waste Department~~  
[Henderson County Solid Waste Coordinator](#)  
 Henderson City/County Rescue Squad  
 Henderson City/County Emergency Medical Services (EMS)  
 Henderson County Fire Chiefs Association

### **LOCAL RESOURCE**

KENERGY Corp.  
 Kentucky Utilities  
 ATMOS Energy  
 Texas Gas Co.  
 Henderson Municipal Gas Department  
 Henderson Municipal Power & Light  
 Henderson City Codes Enforcement - Building Inspector  
 Henderson City Codes Enforcement - Electrical Inspector  
 Henderson County Codes Administrator  
 Henderson County Emergency Management Agency (EMA)  
 Henderson County Sheriff's Department  
 Henderson City Police  
 Henderson City Fire Department  
 Henderson County Health Department  
 Henderson County Road Department  
 Henderson City Street Department  
 Tri County-Solid Waste Department  
 Henderson City/County Rescue Squad  
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Henderson City/County Emergency Medical Services (EMS)  
Baskett VFD  
Reed VFD  
Zion VFD  
Robards VFD  
Corydon VFD  
Smith Mills VFD  
Cairo VFD  
Niagara VFD  
Hebbardsville VFD  
Spottsville VFD  
Henderson ARES/RACES Amateur Radio Club  
American Red Cross (ARC), Cardinal Chapter  
Henderson County School District & Transportation Department  
Kentucky Transportation Cabinet (KYTC) Henderson Office

### **STATE RESOURCE**

[Civil Air Patrol](#)  
[Kentucky National Guard](#)  
Kentucky Division of Emergency Management (KyEM)  
Kentucky Division of Fish and Wildlife  
Kentucky Transportation Cabinet (KYTC) District Office  
[Kentucky Amateur Radio Emergency Services \(ARES\)](#)  
[Radio Amateur Civil Emergency Service \(RACES\)](#)  
American Red Cross (ARC), Cardinal Chapter  
State Board of Education  
Kentucky Department of Military Affairs/Kentucky National Guard  
Volunteer Organizations Active in Disaster  
USDA's Natural Resources Conservation Service

### **PURPOSE**

ESF 3 provides for debris clearance of roads, highways and bridge repairs. Engineering, construction, repair and restoration of essential public works systems and services, and the safety and inspection of damaged public buildings.

### **SITUATIONS AND ASSUMPTIONS**

During a disaster or emergency, county and local governments have a limited capability and an immediate requirement to provide emergency services for restitution of utilities: water/wastewater, transportation. Debris management, which may become quickly overwhelming following a catastrophic incident will include emergency clearance of debris; cleaning, repairing, or construction of damaged emergency access routes;

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emergency restoration of critical public services and facilities; emergency demolition of damaged structures and facilities; and technical assistance and damage assessment of private utility operations.

Damage can include economic loss, injury to persons or animals in addition to the physical damage to property and buildings.

Repair and construction of roads and bridges, installation and repair of traffic control devices, and/or snow and ice removal will have to be coordinated.

As the result of a catastrophic incident the following conditions could exist within the County:

**Water/ Wastewater:**

- Clean water is necessary to sustain human life, agricultural and industrial production.
- Potable water may not be available due to drought, hazardous materials spills, severe weather or mechanical failure.
- A catastrophic incident could seriously cripple the County making potable water extremely scarce. Rationing to conserve the County's water would have to be undertaken.
- Public and private water usage may be curtailed or otherwise cease to operate due to damage or other emergency conditions.
- Receipt and distribution of bottled water may be required.
- Public and private wastewater and sewer systems usage may be curtailed or otherwise cease to operate due to damage or other emergency conditions.
- The return of untreated consumed water to the ground water supply can so contaminate this supply as to make converting back to potable water uneconomical.

**Transportation:**

- A catastrophic incident could block or alter normal channels of transportation in the County.
- Before, during and after an incident, there may be a need for transportation to move and protect life and property.

- Streets and major transportation routes may be obstructed with large amounts of debris and may be impassable for long periods of time. Access may be restricted to damaged areas and only accessible by air.
- Primary routes of transportation throughout the County will be given priority for damage assessment, debris removal, and road repairs.

**Debris Management:**

- Incidents of all types often result in debris that must be removed to save lives and minimize damage.
- Following a catastrophic incident, most roads and streets may be impassable due to debris.
- Severe damage may be caused to homes, businesses, public buildings, bridges, and other infrastructure, resulting in large debris fields that may be hazardous to the health and welfare of citizens in the County.
- The KYTC may be requested to remove debris from the State highway and road system.
- Private construction and industrial heavy equipment may be used for debris removal, when necessary.
- Storage and/or disposal of contaminated materials and/or contaminated soil will be a local task, with State and Federal support.

**MISSION**

To coordinate the overall response of the County to a major failure of infrastructure due to natural or manmade incidents.

**DIRECTION AND CONTROL**

The ESF 3 Coordinator will recommend to ESF 7 Coordinator, the County resources to be committed to the incident and alert appropriate personnel.

**Water/Wastewater:**

- The Chief Elected Official(s) may, under provisions of KRS 39A-G declare an emergency and regulate the use of potable and raw water.
- The Environmental and Public Protection Cabinet (E&PPC), and the Cabinet for Health and Family Services (CHFS) have the responsibilities

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of insuring potable water is available for the citizens of the Commonwealth.

- E&PPC is responsible for overseeing the withdrawing and discharging of all water used in private and public water systems.
- CHFS is responsible for overseeing the withdrawing and discharging of water confined to an individual on private property.
- In the event of multi-county water quality problems, an Emergency Water Management Board may be formed to coordinate the Commonwealth's water policy.
- The State Emergency Water Management Board, by the power vested in the Secretary of the Environmental and Public Protection Cabinet by KRS 151.110 and KRS 151.200, can monitor and allocate water resources at the local level. The ESF 3 Coordinator will work with the State Board to develop water resource guidelines.

**Transportation:**

- The ESF 3 Coordinator will coordinate with the ESF 1 Coordinator to provide emergency transportation in an incident.

**Debris Management:**

- The ESF 3 Coordinator will work with and coordinate with other county agencies to begin immediate damage assessment and debris removal from infrastructure in order to protect public health and safety.

## **CONCEPT OF OPERATIONS**

### **Phases of Management**

#### **Preparedness**

-The ESF 3 Coordinator will prepare and maintain a current list of infrastructure necessary for maintaining basic water/wastewater and fossil fuel delivery to the County.

The ESF 3 Coordinator will prepare and maintain ESF administrative and financial procedures as required to properly document activities during an incident.

**Response**

The ESF 3 Coordinator will work with Emergency Management to provide public service announcements on energy conservation, mitigation impacts and restoration forecasts.

The ESF 3 Coordinator will:

**Debris Management:**

- Coordinate the stabilization of public and private structures to facilitate search and rescue and/or protect the public's health and safety.
- Identify and label uninhabitable/unsafe structures.
- Coordinate debris removal and disposal with priority given to the following:
  - Primary roads serving Hospitals & Nursing Homes
  - Airport and Helipad locations
  - County EOC
- Emergency Service Locations (i.e. Fire, EMS, Rescue, [Law](#) etc.)
- Primary streets and roads
- Critical Utilities (water and waste-water plants, and communications sites)
- Reception Centers and Shelters
- Staging areas and refueling areas
- School bus routes
- Coordinate temporary debris storage, sorting and chipping sites throughout the affected area(s) to facilitate debris management.
- Develop and maintain standing contracts that allow for an equipment surge to meet the demands of debris removal and disposal.
- Activate contracts that allow for an equipment surge to meet the demands of debris removal and disposal needs during an incident.

**Water/Wastewater:**

- Augment sanitation services by providing portable toilets or other available sanitation services to both the public and work areas, if available.

**Transportation:**

- Coordinate the efforts to reestablish and/or maintain transportation infrastructures that have been damaged and coordinate their repair.

**Recovery**

Assist in damage assessment operations and relay damage assessment information to the County EOC.

**Transportation:**

- Identify and assess primary transportation routes in the county.
- Prioritize primary routes that need immediate repair/restoration and debris removal.
- Identify transportation resources available for repairing and restoring primary routes and for evacuation of citizens, if needed.
- Coordinate available traffic control equipment and personnel.

**Water/Wastewater:**

- Determine critical supply needs of priority populations (e.g. infants, elderly, and other people with special needs.)
- Coordinate the repair and restoration of critical facilities for water distribution, wastewater, and solid waste facilities.
- Coordinate with ESF 8 (Public Health) for use of Points of Distribution/Disbursing throughout the affected area for distributing emergency water supplies.

**Mitigation**

The ESF 3 Coordinator will work with Emergency Management to provide public service announcements on mitigation impacts and restoration forecasts.

The ESF 3 Coordinator will prepare and maintain a current list of infrastructure necessary for maintaining basic water and wastewater delivery to the County.

The ESF 3 Coordinator will prepare and maintain ESF administrative and financial procedures as required to properly document activities during an incident.

**SPECIFIC KEY POSITION RESPONSIBILITIES****Primary - County Infrastructure Coordinator**

- Upon activation, report to the County EOC.
- Coordinate with the State ESF #3 Primary Agencies.
- Coordinate directly with on-scene Federal ESF #3 representatives, when required.
- Work with the County EOC to develop strategies and priorities of response and recovery efforts to damaged areas and/or disruption of infrastructure.

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- Coordinate countywide efforts, including outside assistance, to maintain and/or restore infrastructure usage.
- In reference to infrastructure, receive and assess requests for emergency aid and/or offers of emergency services from private and public agencies and make recommendations to the County EOC.
- Keep the County EOC informed on other current and pending emergency issues involving County infrastructure.
- Develop and maintain relations with other representatives from the County, surrounding counties, municipalities, local military facilities, and private agencies supporting and servicing infrastructure and energy within the County (to include local electric, fossil fuel, telephone, water/wastewater, industry contacts, and other utilities).
- In coordination with support agencies and the County EOC, prioritize restoration efforts of County infrastructure.
- Maintain accurate logs and other records to include tracking resources, and expenses.
- Coordinate with the Tri County-Solid Waste Department for the development of a county debris management plan.
- Coordinate with representative from other Counties, surrounding municipalities, local military facility, and private agencies supporting and service infrastructure and energy within the County (to include local electric, fossil fuel, telephone, water/wastewater, other utilities, and industry contacts) to:
  - Develop and maintain a list of source, location, and availability of equipment, fuel, and operational personnel to support response/recovery operations.
  - Maintain water and sanitation resources at vital facilities in the County during emergencies.
  - Store and provide fuel for emergency vehicles.
  - Prepare standard operating guidelines/ procedures to provide for infrastructure and energy functions during emergencies (e.g., roads, streets, and sewer, water, utility, and energy services).
  - Establish communications with support agencies.
  - Coordinate and prioritize debris management operations.
  - Prearrange with sources of potable water to provide for emergency potable water requirements.
  - Prearrange for emergency sanitation.
  - Coordinate with industry trade groups and associations to obtain needed fuel for industrial and other emergency purposes in the event of an impending or actual shortage.
  - Monitor countywide infrastructure and energy maintenance and restoration efforts and periodically report your findings to the County EOC, when the EOC is activated.
  - Assist in damage assessment operations and relay damage assessment information to the County EOC.



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- If required, assign emergency response and assessment teams to impacted areas to determine possible affected areas and resources for infrastructure and energy restoration.
- Conduct shelter marking and upgrading operations as required.

**Support**

- County Emergency Management Director
  - Assist all organizations supporting this ESF in the County, and the surrounding municipalities, in obtaining required outside assistance and resources, as necessary.
  - Develop mutual aid agreements as required.
- County/Local Law Enforcement
  - Assist with security and traffic control
- County/Local Fire Departments
  - Assist with Damage Assessment
  - Manpower
- Supporting Agencies will ensure their representatives to ESF 12 are properly trained and exercised on the plans and procedures relating to their work.

**REFERENCES**

KRS 39A-G

The National Response Framework

The National Incident Management System

Henderson County Emergency Operations Center, Standard Operating Procedures

**SUPPORT DOCUMENTS:**

Henderson ESF #3-1 Response to Bridge Emergency

[Henderson ESF #3-1-1 – Bridge Closure Checklist](#)

Henderson ESF #3-2 Barge – Bridge Collision Checklist

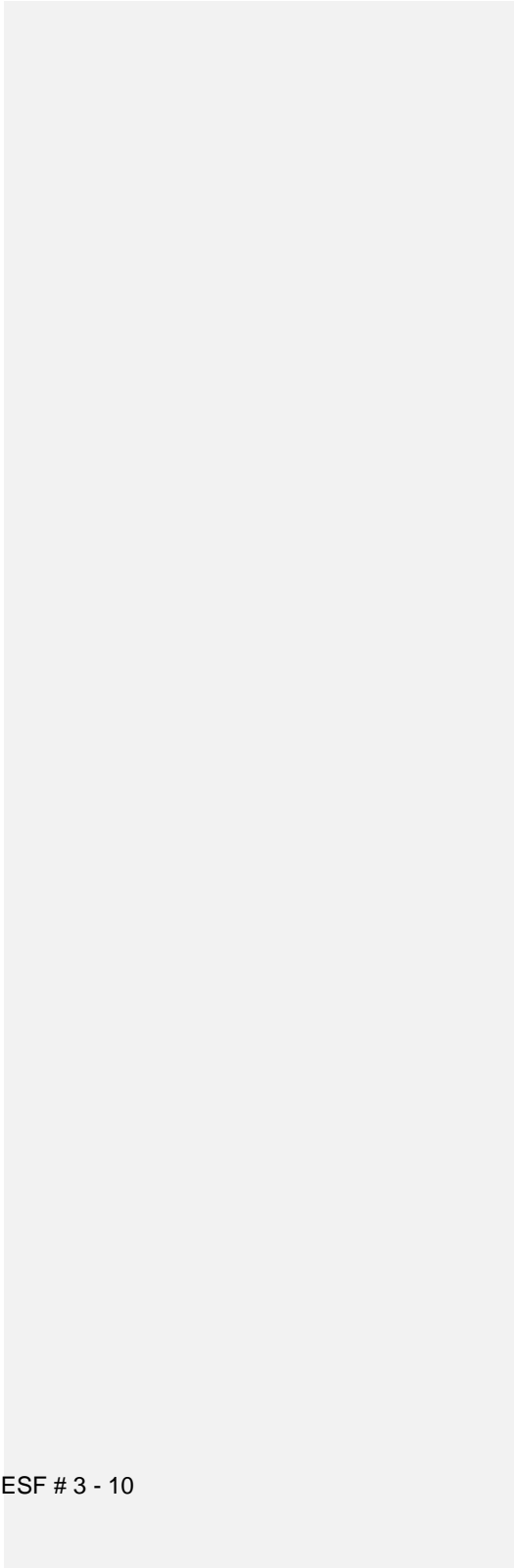
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