

EMERGENCY SUPPORT FUNCTIONS # 3 & # 12 - INFRASTRUCTURE MANAGEMENT

Primary

ESF 3/12 Coordinator: Campbell County Transportation Department Director

Support (S): Campbell County Planning & Zoning Department

Local Support

- Chief Elected Officials
- County/Local Law Enforcement
- Campbell County Road Department
- City Public Works Departments
- Sanitation District No. 1 (SD1)
- Northern Kentucky Water District
- Local Fire Departments
- Insight Cable Communications
- Cincinnati Bell
- Duke Energy
- Owen Electric Cooperative
- Kentucky Utilities
- Campbell County Planning & Zoning

Local Resources

- Office of the State Fire Marshal
- Local Businesses and Contractors (debris, fuel, generators, traffic control)

State/Federal/NGO Resources

- Civil Air Patrol
- Kentucky Division of Emergency Management (KyEM)
- Kentucky Department of Fish & Wildlife Resources
- Kentucky Transportation Cabinet (KYTC) – District Office
- American Red Cross (Kentucky & Cincinnati Regions)
- Kentucky Department of Education (school facilities/transportation support)
- Kentucky Department of Military Affairs / Kentucky National Guard
- U.S. Coast Guard / U.S. Army Corps of Engineers (where applicable)
- USDA – Natural Resources Conservation Service (NRCS)

This ESF scales up/down as the incident evolves; not all partners will be engaged every event.

Purpose

Coordinate countywide **public works, engineering, and energy restoration** to stabilize and restore infrastructure systems impacted by natural or human-caused incidents. Covered systems include **electric power, water/wastewater, transportation, fossil fuels, and debris management** necessary to reopen access and restore essential services.

Situation & Assumptions

- Disasters can quickly exceed local capacity to restore **power, water/wastewater, fuel, and transportation**; urgent **debris clearance** is often the gating factor for lifesaving access.
- Damage may include **economic losses** and **injuries** in addition to physical infrastructure impacts.
- Activities will require coordinated **road/bridge repair, traffic control device** installation/repair, **snow/ice operations**, and **temporary power** for critical facilities.

Electric

- Severe weather (ice, heat waves, tornadoes) and cascading failures can cause **wide power outages**.
- Transmission constraints and high load can require **conservation/rationing**; utilities act under their authorities to restore service; county prioritizes **critical facilities**.

Water/Wastewater

- Potable water is essential for **life, agriculture, and industry**. Drought, contamination, severe weather, or mechanical failure can degrade supply.
- **Boil Water Advisories**, distribution of **bottled/bulk water**, and **wastewater bypass mitigation** may be required. Untreated discharges can contaminate groundwater and complicate recovery.

Transportation

- Debris and damage can block **primary/secondary routes**; access to damaged areas may be limited or require **air assets**.
- **Primary routes** receive priority for assessment, clearance, and repair.

Fossil Fuels

- Supply chain disruptions (weather, strikes, embargoes) can cause local **fuel shortages**.
- **Rationing/conservation** may be implemented under KRS 39A.100; fuel support for generators and emergency fleets is prioritized.

Debris Management

- All hazards generate debris; catastrophic events create **large, mixed, and hazardous debris streams**.
 - Debris removal priorities focus first on **lifesaving access** and **critical facilities**.
 - Temporary Debris Storage & Reduction (TDSR) sites and **environmental compliance** will be required.
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Mission

Direct and coordinate county resources—alongside utility owners/operators and partner agencies—to **assess damage, clear debris, restore access, and re-establish lifelines** (power, water/wastewater, fuel, and transportation) to protect life, stabilize the incident, and support short- and long-term recovery.

Direction & Control

- ESF 3/12 operates within the **County EOC** under ICS/NIMS. The ESF 3/12 Coordinator leads infrastructure coordination and integrates with:
 - **ESF 1 (Transportation)** for route status/traffic operations.
 - **ESF 2 (Communications)** for system status and restoration of comms sites.
 - **ESF 6 (Mass Care)** for facility utilities and POD support.
 - **ESF 7 (Logistics)** for generators, fuel, and resource contracts.
 - **ESF 8 (Public Health/Medical)** for boil water advisories, wastewater, and facility needs.
 - **ESF 10 (HazMat)** for contaminated debris and incidents.
 - **ESF 13 (Law Enforcement)** for access control and movement restrictions.

Electric (prioritization & coordination)

- ESF 3/12 is the county lead for **energy emergencies** and coordinates with utilities.
- If the State forms an **Energy Resource Management Board**, ESF 3/12 interfaces to develop local guidelines.
- **Power restoration priorities:**
 1. **Critical facilities** (EOC, 911/dispatch, hospitals, long-term care, shelters, water/wastewater plants, communications, fire/police/EMS, detention, schools used as shelters) – per FEMA 543 definition.
 2. **Essential industry, commercial, agriculture** tied to life safety and community stabilization.
 3. **Non-essential industry/agriculture**, then **non-essential commercial/residential**.

Water/Wastewater (authorities)

- Chief Elected Official(s) may declare an emergency under **KRS 39A–G** and regulate potable/raw water use.

- **E&PPC** oversees public/private water withdrawals/discharges; **CHFS** oversees private property water use impacting public health.
- The State may convene an **Emergency Water Management Board**; ESF 3/12 coordinates local implementation.

Transportation

- ESF 3/12 works with **ESF 1** and **KYTC District** to prioritize assessments, traffic control, and route restoration.

Fossil Fuels

- ESF 3/12 coordinates with fuel suppliers, distributors, and the State on **allocations, emergency fueling points, and generator support**.

Debris Management

- ESF 3/12 coordinates multi-agency debris operations (public/private crews), immediate clearance for life safety, and subsequent removal/disposal compliant with environmental requirements.

Concept of Operations

Preparedness

- Maintain current inventories of **critical infrastructure** and **lifeline** systems (power, water/wastewater, fuel, transportation) and key points of contact.
- Pre-identify **critical facility generator needs** (kW/kVA, voltage, connectors, fuel type), **fuel resupply plans**, and **refueling routes**.
- Establish **standing contracts** for debris removal, monitoring, traffic control, heavy equipment, fuel, generators, potable water, and portable sanitation.
- Pre-designate and permit **TDSR sites**; develop right-of-entry/hold-harmless templates for **Private Property Debris Removal (PPDR)** if needed.
- Develop **damage assessment** templates and geospatial workflows for rapid infrastructure status mapping.
- Maintain ESF 3/12 **financial/administrative procedures** for cost capture (labor, equipment, materials, load tickets, monitoring logs) to support reimbursement.
- Exercise with utilities, SD1, NKWD, KYTC, and partners on restoration and debris playbooks.

Response

Public Information (with ESF 15): Issue safety and **conservation** messages and **restoration forecasts**.

Electric

- Identify **priority populations and facilities** (medical dependencies, SNFs, shelters).
- Coordinate **temporary power** (generators, load banks, cabling) and fuel resupply for critical sites.
- Maintain real-time **outage mapping** and utility liaison status.

Water/Wastewater

- Coordinate restoration of **treatment and distribution** assets; support emergency repairs.
- Coordinate **bulk/bottled water** and POD operations with **ESF 6 & ESF 8**.
- Support **boil water** communications and sampling logistics.
- Expedite access to **replacement parts, pumps, chemicals, and lab services**.

Transportation

- Rapidly **assess and clear primary routes** (hospitals, EOC, shelters, water/wastewater plants, comms sites).
- Deploy **traffic control** (barricades, signals, detours); coordinate with **ESF 13**.
- Support evacuation/re-entry movements with **ESF 1**.

Fossil Fuels

- Determine **critical fuel needs** (generators, fleets, warming/cooling shelters).
- Coordinate **emergency fuel depots**, convoy routing, and supplier access.
- Track supply, deliveries, and projected burn rates; recommend **conservation** actions.

Debris Management

- **Immediate clearance** for life safety and access; then systematic removal.
- Priorities (in order):
 1. Routes serving **Hospitals & Nursing Homes**
 2. **Helipads** (e.g., St. Elizabeth Ft. Thomas)
 3. **County EOC** and Emergency Service Locations (Fire/EMS/Rescue)
 4. **Primary streets/roads** and **critical utilities** (power lines, substations, water/wastewater plants, comms sites)
 5. **Reception centers & shelters; staging & refueling sites**
 6. **School bus routes**
- Stand up **debris monitoring**, segregation (C&D, vegetative, white goods, HHW, e-waste), and **load ticket** processes.
- Activate contracts and **TDSR** sites; ensure environmental controls (stormwater, dust, ash).

Recovery

All Sectors

- Support detailed **damage assessments**; provide EOC status to inform IAPs and recovery planning.

- Compile documentation for **FEMA/State reimbursement** and insurance; conduct AAR and improvement planning.

Electric

- Coordinate final **repairs**, inspections, and demobilization of temporary power.

Water/Wastewater

- Provide **portable sanitation** where needed; support system **resiliency repairs** (backup power, hardening).

Transportation

- Coordinate **permanent repairs** and hazard mitigation (drainage, slope, guardrails, signalization).

Fossil Fuels

- Support pipeline/terminal **restoration**; advise on **price-gouging controls** as warranted by State guidance.

Debris

- Continue removal/disposal; transition from **public property** to **PPDR** only if approved; close and **remediate TDSR** sites.

Organization & Assignment of Responsibilities

ESF 3/12 Coordinator (County Infrastructure Coordinator)

- Report to the **County EOC** on activation.
- Coordinate with **State ESF 3 & 12** leads and any on-scene Federal ESF reps.
- Develop strategies and **priorities** for access, debris, and lifeline restoration.
- Receive/validate infrastructure requests and offers; recommend actions to EOC.
- Maintain **situational awareness** and provide regular status updates.
- Build/maintain relationships with utilities, fuel suppliers, SD1/NKWD, KYTC, neighboring jurisdictions, and critical infrastructure owners.
- In coordination with support agencies/EOC:
 - Prioritize restoration efforts.
 - Maintain **logs, cost tracking, and resource status**.
 - Maintain and implement the **County Debris Management Plan**.
 - Maintain lists of **equipment, fuel, personnel sources**.
 - Ensure **backup power** for the EOC and other vital facilities.
 - Arrange **potable water** and emergency sanitation sources.
 - Coordinate with industry groups for **fuel** under shortage conditions.
 - Direct **damage assessments**; deploy field teams; provide maps and reports.

County Emergency Management Director

- Assist with **resource acquisition**, mutual aid, and State/Federal requests.
- Support inter-ESF coordination, IAP development, and joint messaging.

County/Local Law Enforcement (ESF 13)

- Provide **perimeter security**, access control, escorts, traffic control, and support to movement restrictions for safety.

Local Fire Departments

- Support **initial damage assessments**, immediate clearance for life safety, HazMat size-up (with ESF 10), and generator safety checks.

Public Works/Utilities/SD1/NKWD

- Execute repairs; provide **crew safety**, work area protection, and regular status to ESF 3/12.

KYTC District / State Partners

- Support **state routes**, debris removal on state rights-of-way, and heavy equipment surge.

American Red Cross / NGOs (with ESF 6)

- Coordinate **PODs**, shelter utility needs, and cooling/heating site support.

All supporting agencies ensure their ESF 3/12 representatives are **trained and exercised** on relevant plans/SOPs.

Administrative Support & References

- **KRS 39A–G**
- **National Response Framework (NRF)**
- **National Incident Management System (NIMS)**
- Kentucky Division of Emergency Management – **SEOC SOPs**
- County **Emergency Operations Plan** and **Debris Management Plan**
- FEMA guidance for critical facilities and debris operations (for planning alignment)