

**HAMILTON COUNTY EMERGENCY OPERATIONS PLAN
ANNEX C - EMERGENCY SUPPORT FUNCTION #3 — ENGINEERING AND PUBLIC
WORKS**

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| COORDINATING AGENCY: | Hamilton County Engineer's Office |
| SUPPORT AGENCIES: | Jurisdiction Public Works Agencies Hamilton County Facilities Management Hamilton County Planning and Development Hamilton County Purchasing Division Hamilton County Prosecutor's Office Hamilton County Public Health Hamilton County Metropolitan Sewer District Cincinnati Water Works Ohio Division of Soil and Water Resources American Red Cross, Cincinnati Area Chapter Local Public Utility Companies Ohio Environmental Protection Agency (OEPA) |

I. INTRODUCTION

- A. Emergency Support Function (ESF) #3 Engineering and Facilities Management addresses the agencies that provide response and recovery for local and county public works/engineering following an emergency. There is no single county organization that has oversight over all varieties of public works/engineering assistance that may be required following a disaster. In general, the Hamilton County Engineer's Office addresses most engineering concerns, therefore they serve as the lead agency for this function. All support agencies for ESF #3 may be required to report individually on their emergency missions when activated in the Regional Operations Center or at the site of the disaster.

Each ESF representative is responsible for the dissemination of information that may be of value to other ESF representatives located in the ROC. This information sharing contributes to the response and recovery during an emergency/disaster of any type.

- B. ESF #3 may be involved in the following emergency activities that assist local governments in response and recovery efforts.
- Damage assessment
 - Provision of technical advice
 - Demolition and stabilization projects
 - Inspections
 - Evaluations
 - Contracting
 - Reconnaissance
 - Emergency repairs
 - Temporary and permanent construction
 - Debris removal
 - Public works/engineering emergency supply and support services.

II. SITUATION AND ASSUMPTIONS

- A. Situation

1. Disasters cause property damage to homes, public buildings and other facilities. Those structures may require reinforcement, demolition or isolation to ensure safety. Public utilities may be partially or fully inoperable following disasters. (Refer to ESF #12 for energy utility information and ESF #2 for communications information.)
2. Equipment in the immediate disaster area may be damaged or inaccessible. County government may have to deploy resources from outside the affected area in order to ensure a quick, effective response.

B. Assumptions

1. ESF #3 will prioritize county emergency missions by addressing life safety and human health issues first.
2. Rapid damage assessment of the disaster area will be necessary to determine potential workload (Functional Annex N-1 – Damage Assessment)
3. The Hamilton County Debris Management Annex will be activated for disposal of materials from debris clearance and demolition activities. (Functional Annex C-1 – Debris Management)
4. County and local agency requirements remain in effect unless revised by the appropriate authorities in accordance with applicable rules and regulations. Additional consumer protection programs may be put in place to protect citizens.
5. ESF #3 support services for the disaster area may be provided to some degree by contracted agencies or mutual aid.

III. CONCEPTS OF OPERATIONS

A. Overview

1. The Hamilton County Office of Emergency Management will notify agencies of ESF #3 when public works and engineering capabilities are required for county assessment, response and recovery activities during emergencies. Full or partial activation of ESF #3 will depend upon the requirements for response and recovery.
2. Personnel from ESF #3 Coordinating and Support Agencies are prepared to staff the Regional Operations Center on a twenty-four hour basis and provide personnel and equipment as applicable for emergency response and recovery activities at the disaster site.
3. Additional public works and engineering services and equipment may be contracted on an emergency basis when required for response and recovery operations.
4. The Ohio National Guard is a state asset that, if activated, may:
 - a. Provide personnel and equipment for the following public works/engineering emergency activities.
 - 1) Debris removal
 - 2) Damage assessment
 - 3) Demolition and/or emergency repairs or stabilization of unsafe public structures
 - 4) Engineering reconnaissance

- 5) Delivery of potable water.
 - 6) Assist with emergency drainage problems.
5. Close coordination is maintained between ESF #3 organizations during emergencies to:
 - Prioritize response and recovery missions
 - Share and update information
 - Ensure expedient response and recovery actions
 - Avoid redundant activities
 - Ensure a unified effort when working with local, county, state, federal, and private organizations
 - Provide accurate intelligence to other organizations in the Hamilton County EOC and at the site of the emergency
 6. Each ESF #3 organization is responsible for providing logistical support to their personnel and for tracking and maintaining equipment and supplies.
 7. The pre-positioning of ESF #3 resources may take place depending upon the nature of the hazard.
 8. Provision shall be made for the maintenance, repair, and storage of equipment in protected locations to ensure safe operation.
 9. ESF #3 will coordinate with ESF #7 — Resource Support, and ESF #5 — Emergency Management, when establishing staging areas for personnel, equipment, and supplies. This will ensure that the best sites are identified, established, and that site locations, contact numbers, and capabilities are distributed to personnel needing this information.
 10. Deactivation of ESF #3 can be a long-term process, extending deep into the recovery phase since public works and engineering projects may require many months of activity. Deactivation will be coordinated with local officials.

B. Relationships between Levels of Government

1. Federal
 - a. Federal ESF #3 may be activated for emergencies in Ohio requiring federal assistance. The federal ESF #3 Team is composed of the following organizations.
 - Department of Defense, U.S. Army Corps of Engineers (Primary Agency)
 - Department of Agriculture
 - Department of Commerce
 - Department of Health and Human Services
 - Department of the Interior
 - Department of Labor
 - Department of Veterans Affairs
 - Environmental Protection Agency
 - Tennessee Valley Authority
 - b. The state ESF #3 Team will coordinate with the federal ESF #3 Team by working with them in the field, in the Disaster Field Office (DFO) and by providing them with emergency missions that are beyond the capabilities of ESF #3.
2. State

- a. Ohio Department of Natural Resources is the state liaison organization between Ohio and the U.S. Army Corps of Engineers.
 - b. The Ohio Adjutant General's Department is the state liaison organization between Ohio and the Department of Defense.
 - c. State ESF #3 organizations may contract with and coordinate with a wide variety of private public works and engineering services in order to provide expedient response and recovery to communities during emergencies.
 - d. Each ESF #3 organization maintains internal listings of private organizations that may be needed for specific services during emergencies. Coordination and approval will be obtained with appropriate fiscal and executive personnel within each organization and the Ohio EOC/Disaster Field Office before a commitment to a private provider is made.
 - e. ESF #3 organizations will coordinate with ESF #3 organizations from adjacent states when required during emergencies.
3. County/Local
- a. Local-level emergency requests for county public works/engineering resources and services communicated to the Regional Operations Center will be directed to ESF #3 personnel for action.
 - b. Requests for ESF #3 assistance, made by local officials to ESF #3 personnel at the site of the emergency, will be coordinated with and approved by ESF #3 ROC personnel before action is taken.

IV. ORGANIZATION AND ASSIGNMENT OF RESPONSIBILITY

All ESF #3 organizations are responsible for development of internal SOGs that support ESF #3 and EOC operations.

- A. The lead agency for ESF #3 is the Hamilton County Engineer's Office. The lead agency acts as the spokesperson for the ESF on engineering and public works issues and maintains an overview of countywide operations during emergencies. The lead agency may defer to support organizations for briefings and information releases related to support agency's specific programs or areas of concern.
- B. Primary Assignment of Responsibility
 - 1. Hamilton County Engineer's Office will:
 - a. All assistance by the County Engineer's Office will be within the stated authority of Ohio Statutes.
 - b. Provide personnel and equipment for the following engineering emergency activities:
 - 1) Debris removal in public right of way.
 - 2) Damage assessment and repair within the public right of way
 - 3) Engineering reconnaissance.

- 4) Assist with demolition, emergency repairs, or stabilization of unsafe public structures.
 - 5) Address emergency drainage problems.
 - 6) Ensure emergency access where needed.
 - 7) Contract with private organizations as necessary to support ESF #3 assessment, response, and recovery activities.
- c. Act as primary liaison between Hamilton County and the U.S. Army Corps of Engineers.
 - d. Coordinate with ESF #3 members to identify missions for the state & federal ESF #3 team.
2. Jurisdiction Public Works Agencies will:
- a. Maintain jurisdiction streets
 - b. Perform damage assessment
 - c. Clear debris
 - d. Provide emergency equipment as needed
3. Hamilton County Facilities Management Department will:
- a. Provide personnel and equipment for the following public works emergency activities.
 - 1) Debris removal from county property.
 - 2) Damage assessment of county property.
 - 3) Provide technical assistance for inspections, emergency repairs, or demolition of damaged county property.
 - b. Provide technical recommendations as requested by ESF #3 organizations during emergencies.
 - c. Provide equipment and personnel for ESF #3 operations.
4. Hamilton County Planning and Development will:
- b. Provide personnel for building inspections and flood damage assessments as needed at the site of the emergency.
 - c. Provide technical assistance for inspections, emergency repairs, or demolition of damaged public buildings.
 - c. Assist search and rescue efforts by providing information needed for the mission.
5. Hamilton County Purchasing Division will:
- a. Establish contracts with agencies able to assist with debris removal, demolition, and repair of buildings, roadways, and bridges as required.

6. Hamilton County Prosecutor's Office will:
 - a. Review all projects on behalf of Hamilton County agencies for legal issues and impacts associated with disaster response and recovery.
 - b. Provide legal advice to Hamilton County decision makers as required.
7. Hamilton County Public Health will:
 - a. Coordinate with Ohio EPA and local agencies to maintain and/or restore sanitation standards for public works facilities in the disaster area.
 - b. Coordinate with Ohio EPA and the affected Public Works agency to issue boil water advisories and alerts with respect to damaged public works facilities in the disaster area.
8. Ohio Division of Natural Resources, Soil and Water Resources will:
 - a. Inspect dikes, levies, dams and related structures.
9. American Red Cross, Cincinnati Area Chapter will:
 - a. Coordinate with volunteer agencies and work groups to obtain information and referral sources for emergency repairs and debris removal.
10. Local Public Utilities Companies will:
 - a. Provide emergency information updates to the Regional Operations Center.
 - b. Support evaluation and repair of public utilities systems following county & state-declared emergencies.
11. Ohio Environmental Protection Agency may:
 - a. Inspect and evaluate public water sources following state-declared emergencies as directed.
 - b. Support the decontamination of public waterways during state-declared emergencies.
 - c. Coordinate with Public Health to restore sanitation standards at the disaster site
12. Cincinnati Water Works will:
 - a. Determine the locations and extent of line breaks and coordinate with jurisdiction agencies for repairs and traffic control.
 - b. Coordinate the delivery of potable water.
 - c. Coordinate the issuance of boil water advisories and alerts.
13. Metropolitan Sewer District
 - a. Determine location and extent of line breaks
 - b. Coordinate with Jurisdictions for repairs and decontamination, if necessary

- c. Coordinate with Jurisdictions for traffic control, as necessary.

V. RESOURCE REQUIREMENTS FOR ESF #3 — ENGINEERING AND PUBLIC WORKS.

- A. ESF #3 — Engineering and Public Works organizations are responsible for the maintenance of their own agreements, SOPs, SOGs, MOUs and Resource Listings that document the equipment, supplies, and services available to them during emergencies. Additional support needs during an emergency may be requested through the Hamilton County EOC to ESF #7 — Resource Support.
- B. Additional required resources may be purchased when needed during emergencies.

VI. TECHNICAL RESOURCES

- A. Damage Assessment Functional Annex N-1
- B. Hamilton County Debris Functional Annex C-1