

**OHIO EMERGENCY OPERATIONS PLAN
EMERGENCY SUPPORT FUNCTION #3**

ENGINEERING AND PUBLIC WORKS

COORDINATING

AGENCY: Ohio Department of Natural Resources (ODNR)

PRIMARY AGENCY: Ohio Department of Natural Resources (ODNR)

SUPPORT AGENCIES: Adjutant General's Department, Ohio National Guard (ONG)
Ohio Department of Administrative Service (DAS)
Ohio Department of Commerce, Division of Industrial Compliance (DOC-IC)
Ohio Department of Development (ODSA)
Ohio Department of Health (ODH)
Ohio Department of Rehabilitation and Correction (ODRC)
Ohio Department of Transportation (ODOT)
Ohio Emergency Management Agency (OEMA)
Ohio Environmental Protection Agency (OEPA)
Ohio Housing Finance Agency (OHFA)
Public Utilities Commission of Ohio (PUCO)
Ohio Water/Wastewater Agency Response Network (Ohio WARN)

I. INTRODUCTION

A. Purpose

1. ESF-3 addresses engineering-related emergency response missions in support of that are not related to transportation systems, including:
 - a. Infrastructure damage inspections and assessments
 - b. Substantial damage determinations and field inspections
 - c. Provision of technical advice
 - d. Infrastructure demolition and stabilization operations
 - e. Infrastructure repair and recovery contracting

B. Scope

1. ESF-3's emergency response operations are carried out in support of local public works operations.
2. Because there is no single state-level organization that has oversight over all varieties of public works/engineering assistance that may be required following a disaster, ESF-3's emergency response operations are supported by the State-level agencies that are listed above.
3. ESF-3's agencies could address the following emergency response missions in support of local jurisdiction's emergency response and recovery efforts:
 - a. Temporary and permanent construction
 - b. Emergency repairs
 - c. Reconnaissance
 - d. Debris management
 - e. Public works/engineering emergency supply and support services

II. SITUATION

- A. Disasters can cause property damage to homes, public buildings and other facilities. Damaged structures could 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, ESF-2 for communications information, and ESF-1 for engineering responsibilities related to transportation.
- B. Equipment in the immediate disaster area may be damaged or inaccessible. Responders might have to deploy resources from outside impacted areas in order to ensure a quick, effective response.
- C. Assumptions
 1. ESF-3 will prioritize response missions by addressing life-saving and human health issues first.
 2. Rapid impact assessment of the disaster area will be necessary to determine potential workload.

3. Disposal of materials from debris clearance and demolition activities will be strictly in accordance with applicable rules and regulations, unless emergency environmental waivers are granted by the Director of the Ohio EPA.
4. All state and local agency requirements and procedures will remain in effect unless revised by the appropriate authorities in accordance with applicable rules and regulations. Consumer protection programs will be in place to protect citizens.
5. ESF-3 agencies will maintain listings of private organizations that may be needed for specific services during emergencies.
6. Coordination and approval of the assignment of missions to private organizations will be facilitated in cooperation with appropriate agency-based fiscal and executive personnel and the Ohio EOC/DFO before a commitment to a private provider is made.
7. If necessary, specialized local response organizations/teams will be called upon to assist at an emergency scene.
8. Local EOCs will communicate incident information regarding infrastructure impacts, damages to water treatment and distribution plants, and other significant emergencies, including the status of available response resources, to the State EOC.

III. CONCEPT OF OPERATIONS

A. Overview

1. Local jurisdictions have the responsibility of providing the first line of infrastructure protection and restoration. In disaster situations, the functions and duties of local responders could mirror normal day-to-day operations, with additional duties and procedures added as needed to maintain disaster-related continuity of operations, an adequate response level, and management of the prioritization of response.
2. The Ohio Emergency Management Agency (Ohio EMA) will notify ESF-3 support agencies when public works and engineering capabilities are required for state assessment, response and recovery activities during emergencies. Full or partial activation of ESF-3 will depend upon an incident's requirements for response and recovery missions.

3. Personnel from ESF-3 Primary and Support Agencies are prepared to staff the Ohio EOC on a twenty-four hour basis and to provide personnel and equipment as applicable for emergency response and recovery activities at the disaster site.
4. Additional public works and engineering services and equipment will be contracted for on an emergency basis when required for response and recovery operations.
5. Close coordination will be maintained between ESF-3 organizations during emergencies in order to:
 - a. Prioritize response and recovery missions
 - b. Share and update information
 - c. Ensure expedient response and recovery actions
 - d. Avoid redundant activities
 - e. Ensure a unified effort when working with federal, local and private organizations
 - f. Provide accurate information to other organizations in the Ohio EOC and at the site of the emergency
6. Each ESF-3 organization will provide logistical support to their personnel and for tracking and maintaining equipment and supplies.
7. ESF-3 resources could be pre-positioned depending upon the nature of the hazard.
8. Equipment will receive maintenance and repairs and be stored in protected locations during response and recovery operations in order to ensure maximum, safe usage.
9. ESF-3 will coordinate with ESF-7 (Resource Support) and ESF-5 (Information and Planning) when establishing staging areas for public works and engineering personnel, equipment and supplies. This coordination will ensure that the best sites are identified and established and that site locations, contact numbers and capabilities are distributed to personnel needing this information.
10. Ohio WARN can provide local public and private water suppliers with access to regionally-based utility-to-utility resources (engineering, plant operations, and distribution) to assist with the restoration of public and private water supply infrastructure.

11. If sufficient assistance is not available via in-state sources, further assistance and resources can be accessed through U.S. WARN. These resources can be accessed either through local mutual aid agreements, through direct requests from local EMAs to Ohio WARN, or through the State EOC.
12. Because public works and engineering projects may require many months of activity, deactivation of ESF-3-related response resources can be a long-term process, and can extend deep into the recovery phase. Deactivation will be coordinated between local officials and state executives of ESF-3 organizations.

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:
 - i. Department of Defense , U.S. Army Corps of Engineers (Primary)
 - ii. Department of Homeland Security/Federal Emergency Management Agency (Primary)
 - iii. U.S. Department of Agriculture
 - iv. U.S. Department of Commerce
 - v. U.S. Department of Defense
 - vi. U.S. Department of Energy
 - vii. U.S. Department of Health and Human Services
 - viii. U.S. Department of Homeland Security
 - ix. U.S. Department of the Interior
 - x. U.S. Department of Labor
 - xi. U.S. Department of Transportation
 - xii. U.S. Department of Veterans Affairs
 - xiii. U.S. Environmental Protection Agency
 - xiv. U.S. Nuclear Regulatory Commission
 - xv. 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 JFO, and by providing them with emergency missions that are beyond the capabilities of ESF-3.

2. State

- a. ODNR is the state liaison organization between Ohio and the U.S. Army Corps of Engineers.
- b. The Adjutant General's Department, Ohio National Guard is the state liaison organization between Ohio and the Department of Defense.

- c. Ohio WARN is a statewide response network that supports and promotes statewide emergency preparedness, disaster response and mutual aid assistance for public and private water and wastewater utilities.
- d. 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.
- e. 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/JFO before a commitment to a private provider is made.
- f. ESF-3 organizations will coordinate with ESF-3 organizations from adjacent states and Canadian Territories during emergencies. These jurisdictions include Michigan, Indiana, Kentucky, West Virginia, Pennsylvania and Ontario.

3. Local

- a. Local-level emergency requests for state public works/engineering resources and services communicated to the Ohio EOC 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 Ohio EOC/DFO personnel before action is taken.
- c. Local Emergency Management Directors will ensure that local personnel skilled in engineering and public works will be pre-identified and assigned to coordinate with state ESF-3 personnel during emergencies.

4. Comparison Chart for ESF-3 Organizations

- a. The chart below lists agencies at three levels of government that share similar emergency responsibilities. These agencies from different levels of government may coordinate with each other during emergencies.

ESF-3 – Engineering and Public Works

<u>State Organizations</u>	<u>Federal-Level Organizations</u>	<u>Local Organizations</u>
Department of Natural Resources	U.S. Army Corps of Engineers U.S. Coast Guard	Local Soil and Water Conservation Districts Local Parks and Recreation Departments
Adjutant General's Department, Ohio National Guard	U.S. Department of Defense	*
Department of Administrative Services ²	U.S. Department of Commerce	*
Ohio Department of Commerce, Division of Industrial Compliance	U.S. Department of Commerce	*
Ohio Development Services Agency Ohio Housing Finance Agency	Department of the Interior	County Engineers, County Commissioners
Ohio Department of Health	U.S. Department of Health & Human Services	Local Health Departments
Ohio Department of Rehabilitation and Correction	*	Local Sheriff's Office, Local Law Enforcement
Ohio Department of Transportation	U.S. Department of Transportation	County Engineers and Municipal Street Departments
Ohio EMA	Department of Homeland Security/FEMA	County EMAs
Ohio Environmental Protection Agency	U.S. Environmental Protection Agency	Local Fire Departments HAZMAT Teams Local Health Departments
Ohio Water/Wastewater Agency Response Network	**American Water Works Association, Water and Wastewater Agency Response Network	Local Water and Wastewater Utilities
Public Utilities Commission of Ohio ³	Tennessee Valley Authority ⁴	Privately Owned Water and Wastewater Utilities
*	U.S. Department of Labor	*
*	U.S. Nuclear Regulatory Commission	*
*	Department of Veterans Affairs	*

* There is no comparable designated organization at this level of government.

1. The U.S. Department of Agriculture addresses emergency issues similar to those addressed by the Dept. of Natural Resources and the Adjutant General's Department.

2. Department of Administrative Services may assist by providing contractual services for debris removal. Departments of Labor and Veterans Affairs also provide personnel support. The state Bureau of Employment Services may also assist in this area. Refer to ESF-7 recovery for their responsibilities.
3. The Public Utilities Commission of Ohio may assist during emergencies in various areas involving public works. Refer to ESF-12 Energy for a complete listing of their responsibilities.
4. TVA may provide additional personnel to assist in damage assessments and debris clearance.

IV. ORGANIZATION AND ASSIGNMENTS OF RESPONSIBILITY

A. Organization

1. The Ohio Department of Natural Resources is the Coordinating Agency for ESF-3, and will be responsible for working with this ESF's Support Agencies to ensure that there is a seamless integration of, and transition between preparedness, response, and recovery activities. The Coordinating Agency's primary responsibility will be to focus on engaging Support Agencies in pre-incident planning and coordination opportunities.
2. The Ohio Department of Natural Resources is the Primary Agency for ESF-3, and will take the lead in coordinating and reporting on ESF-9-related missions and operations.
3. ESF-3 agencies will be activated through the State EOC for assessment, response, and recovery operations based on the needs of the emergency. Primary and Support Agencies will coordinate with one another to ensure the most effective use of personnel and equipment, to avoid redundant activities, and to cooperate on emergency response missions.
4. All agency-based resources will be provided as they are needed, as they are available, and as agencies are able to provide them.

B. Assignments of Responsibility

1. Ohio Department of Natural Resources
 - a. Provide information on state-controlled water resources.
 - b. Inspect dikes, levies, dams and related structures for incident-related damage.
 - c. Assist with debris removal.
 - d. Perform damage assessments and coordinate substantial damage field inspections.
 - e. Assist with incident-related water drainage problems.

- f. Facilitate operations to provide emergency access to remote and forested areas.
 - g. Assist with the restoration of structural integrity and/or safeguarding of damaged public property.
 - h. Assist in contracting with private organizations as necessary to support ESF-3 assessment, response and recovery missions and operations.
 - i. Function as primary liaison between the State of Ohio and the U.S. Army Corps of Engineers.
 - j. Coordinate with ESF-3 team members to identify missions for federal ESF-3 team(s).
2. Adjutant General's Department, Ohio National Guard
- a. When a Governor's declaration has been issued, provide general and unique services.
 - b. Provide personnel and equipment for the following public works/engineering emergency activities:
 - i. Debris removal
 - ii. Damage assessment
 - iii. Demolition and/or emergency repairs or stabilization of unsafe public structures
 - iv. Engineering reconnaissance
 - v. Delivery of potable water.
 - vi. Assist with emergency drainage problems.
 - c. Function as the primary liaison between the State of Ohio and U.S. Department of Defense.
3. Ohio Department of Administrative Services
- a. Provide technical assistance for inspections, emergency repairs or demolition of damaged public buildings.
4. Ohio Department of Commerce, Division of Industrial Compliance
- a. Provide building inspectors as needed at the site of the emergency.
 - b. Provide information to Ohio EOC personnel on industries affected by the disaster.

5. Ohio Development Services Agency
 - a. Coordinate with private contractors and identify federal, state, and local programs that can be used to support ESF-3 assessment, response, and recovery operations.
6. Ohio Department of Health
 - a. Coordinate with Ohio EPA and local agencies to maintain and/or restore sanitation standards for public works facilities in the disaster area.
7. Ohio Department of Rehabilitation and Correction
 - a. Provide prison work crews to serve as manpower labor for debris removal and other manual labor emergency-related activities.
 - b. Provide equipment in the form of backhoes, shovels, wheel barrows, tractors, rakes, power tools, axes, power saws and other manual labor tools.
8. Ohio Department of Transportation
 - a. Support debris removal, especially along transportation routes.
 - b. Conduct necessary short-term and long-term repair operations on state transportation routes.
 - c. Provide technical recommendations as requested by ESF-3 organizations during emergencies.
 - d. Provide equipment and personnel for ESF-3 operations.
9. Ohio Emergency Management Agency
 - a. Notify elements of ESF-3 when public works and engineering capabilities are required for state assessment, response and recovery activities during emergencies.
 - b. Provide coordination for debris management and long-term recovery operations.

10. Ohio Environmental Protection Agency

- a. Inspect and evaluate public water following state-declared emergencies as needed.
- b. Provide regulatory oversight and technical assistance on debris management, including all solid waste (e.g., scrap tires, vegetative or woody debris, general refuse, garbage, home furnishings, etc.), demolition debris, and infectious waste, and hazardous waste. Household hazardous waste should be managed separately to the extent practical.
- c. Coordinate with Ohio Department of Health and local agencies to assist in the restoration of sanitary conditions through proper management and disposal of sewage and other waste streams.
- d. Support and provide technical assistance (testing, laboratory analysis, etc.) to public water suppliers in response to water quality and supply incidents.
- e. Provide technical assistance and support for chemical and petroleum releases or other issues of environmental concern.

11. Ohio Housing Finance Agency

- a. Provide technical assistance in support of ESF-3 response and recovery operations.
- b. Provide staff resources through field offices to conduct housing damage assessments.
- c. Provide staff resources for staffing of Disaster Recovery Centers
- d. Provide damage assessment training services.

12. Ohio Water/Wastewater Agency Response Network

- a. Provide and facilitate connections to mutual aid-based resources for response to incidents that impact public and private water and wastewater utilities.
- b. Provide technical and material assistance to public utilities and incident responders.

13. Public Utilities Commission of Ohio

- a. Provide emergency coordination for information between public works and the Ohio EOC as needed during emergencies.

- b. Support evaluation and repair of public utilities systems following state-declared emergencies.

V. RESOURCE REQUIREMENTS FOR ESF-3 PUBLIC WORKS AND ENGINEERING.

- A. ESF-3 organizations maintain organizational Standing Operating Procedures and Resource Listings that document equipment, supplies and services available to them during emergencies.
- B. Additional required resources may be purchased when needed during emergencies.