

EMERGENCY SUPPORT FUNCTION (ESF) 3 PUBLIC WORKS AND ENGINEERING

Primary Agency: Chatham County Department of Public Works
Support Agencies: Chatham Emergency Management Agency
Chatham County Engineering Department
Chatham County Building Safety & Regulatory Services
Chatham County Parks & Recreation
GA Department of Transportation
Municipal Public Works (Facilities Maintenance) & Water/Sewer
Metropolitan Planning Commission
US Army Corps of Engineers
Manufacturers Council
Municipal Building Inspections
Voluntary Technical Assistance Group (VOLTAG)

Supporting information, documentation, activation instructions and checklists are contained in the Introduction to Emergency Support Functions Annex.

I. Introduction

- A. Purpose: This ESF implements Annex 3 to the Emergency Operations Plan. This ESF provides operational guidance to those who are assigned to work in this ESF. The mission of this ESF is to remove debris from streets, eliminate hazards, manage storm damage, provide rapid restoration of water/sewer services, repair essential services, immediately provide damage assessment information and cooperate with other emergency agencies.
- B. Scope: This ESF is structured to provide public works and engineering-related support for the changing requirements of incident management to include preparedness, prevention, response, recovery, and mitigation actions. Functions include but are not limited to:
 - 1. Preparedness
 - a. General
 - (1) Participate in exercises and training to validate this annex and supporting SOPs.
 - (2) Ensure all ESF #3 personnel integrate NIMS principles in all planning. As a minimum, primary action officers for all ESF #3 agencies will complete ICS 200, 300, and 700 courses.
 - b. Public Works and Engineering

- (1) Assist with the provision of water (potable and non-potable) and ice into the disaster area if local supplies become inadequate.
 - (2) In coordination with local emergency management officials, develop policy for conservation, distribution and use of potable and firefighting water.
 - (3) Identify and locate chemicals to maintain a potable water supply.
 - (4) Include in ESF #3 Standard Operating Procedures an alerting list, to include points-of-contact and telephone numbers, of agencies, counties, municipalities and organizations supporting public works and engineering functions.
 - (5) Maintain a current inventory of equipment and supplies, to include points-of-contact and telephone numbers, required to sustain emergency operations, including emergency power generators.
 - (6) Establish operational needs for restoration of public works service during the emergency.
 - (7) Develop and maintain listings of commercial and industrial suppliers of services and products, to include points-of-contact and telephone numbers associated with public works and engineering functions.
 - (8) Plan engineering, contracting, and procurement assistance for emergency debris, snow or ice clearance, demolition, public works repair, and water supply, and sewer missions.
 - (9) In conjunction with the GANG, plan for use of state military resources to support ESF #3 operations.
- c. Damage Assessment: Coordinate the deployment of state damage assessment teams, VOLTAG and other engineer teams into any area of the state.

2. Response

a. Public Works and Engineering

- (1) Identify water and sewer service restoration, debris management, potable water supply, and engineering requirements as soon as possible.
- (2) Evaluate status of current resources to support ESF #3 operations.
- (3) Establish priorities to clear roads, repair damaged water/sewer systems and coordinate the provision of temporary, alternate or interim sources of emergency power and water/sewer services.
- (4) As needed, recommend priorities for water and other resource allocations.

- (5) Procure equipment, specialized labor, and transportation to repair or restore public works systems.
 - (6) Coordinate with the GANG for use of state military assets.
 - (7) Coordinate with ESF #6 for shelter support requirements.
 - (8) Coordinate with ESF #8 and ESF #11 for advice and assistance regarding disposal of debris containing or consisting of animal carcasses.
 - (9) Coordinate with ESF #10 for advice and assistance regarding disposal of hazardous materials.
 - (10) Coordinate with ESF #4 for advice and assistance regarding firefighting water supply.
- b. Damage Assessment
- (1) At the onset of an emergency or disaster, notify department/agency heads and local governments and volunteer organizations to have damage assessment and safety evaluation personnel available to deploy to affected area(s) and pre-position as appropriate.
 - (2) Provide damage assessment coordinators and support for joint state/federal teams into the affected area, as required.
 - (3) Coordinate with ESF #12 for public utility damage assessment information.
 - (4) Collect, evaluate, and send damage assessment reports to ESF #5 and other appropriate agencies.
 - (5) Coordinate state and local damage assessment operations with related state and federal activities.
 - (6) Prepare damage assessment documents in conjunction with GEMA where appropriate for a presidential emergency or major disaster declaration when necessary.
3. Recovery
- a. General
- (1) Anticipate and plan for arrival of and coordination with FEMA ESF #3 personnel in the EOC and the Joint Field Office (JFO).
 - (2) Ensure that ESF #3 team members, their agencies, or other tasked organizations, maintain appropriate records of time and costs incurred during the event.
- b. Public Works and Engineering
- (1) Maintain coordination with all supporting agencies and organizations on operational priorities for emergency repair and restoration. Coordinate, as

- needed, for debris management operations on public and private property.
 - (2) Continue to monitor restoration operations when and where needed as long as necessary and until all services have been restored.
 - c. Damage Assessment: In conjunction with GEMA, develop disaster project worksheets as required.
- 4. Mitigation
 - a. Support and plan for mitigation measures.
 - b. Support requests and directives from GEMA concerning mitigation and/or re-development activities.
 - c. Document matters that may be needed for inclusion in agency or state/federal briefings, situation reports and action plans.

II. Concept of Operations

A. General:

1. ESF 3 will serve as the resident expert in post-incident assessments of infrastructure to help determine critical needs and potential workloads.
2. Policies and procedures shall be established to identify structural and nonstructural mitigation measures, including deploying of protective measures, to minimize adverse effects or fully protect resources prior to an incident.
3. Pre- and post-incident assessments of infrastructure.
4. Execute emergency contracts to support life-saving and life-sustaining services.
5. Provide technical assistance to include engineering expertise, construction management, contract and real estate services.

B. Response:

1. Initial Actions:
 - a. ESF 3 will coordinate and support infrastructure risk and vulnerability assessments.
 - b. Participation in pre-incident activities, such as pre-positioning assessment teams and contractors, and deploying advance support elements shall be supported.
 - c. Execution of emergency contracting support for life-saving and life-sustaining services, to include providing potable water, ice, emergency power, and other emergency commodities and services.
2. Continuing Actions

- a. Provide emergency repair of damaged infrastructure and critical facilities.
 - b. Providing assistance in the monitoring and stabilization of damaged structures and the demolition of structures designated as immediate hazards to public health and safety. Also, providing structural specialist expertise to support inspection of mass care facilities and urban search and rescue operations.
 - c. Provide emergency repair of damaged infrastructure and critical public facilities (temporary power, emergency water, sanitation systems, etc.). Support the restoration of critical navigation, flood control, and other water infrastructure systems. As appropriate, this ESF requests technical support to help facilitate efforts to obtain necessary regulatory (cultural and environmental) clearances for infrastructure restoration activities.
 - d. Manage, monitoring, and/or provide technical advice in the clearance, removal, and disposal of contaminated and uncontaminated debris from public property and the reestablishment of ground and water routes into impacted areas. The scope of actions related to contaminated debris may include waste sampling, classification, packaging, transportation, treatment, demolition, and disposal of contaminated debris and soil. The management of contaminated debris is coordinated with the Hazardous Materials ESF. For purposes of this ESF, contaminated debris is intended to mean debris (e.g., general construction debris/rubble) that is being addressed within the debris zone and to support the overall objectives, such as clearing roads and public property. Waste management related to hazardous site remediation is addressed under the Hazardous Materials ESF.
 - e. Provide technical assistance to include engineering expertise, construction management, contracting, inspection of private/commercial structures, and real estate services.
3. Recovery
- a. Implement and manage the Public Works and Engineering recovery programs. Accurate assessment of total damages including insured and uninsured losses.
 - b. Assess and prioritize affected area needs.
 - c. Preparation of preliminary damage assessment reports.
 - d. Deploy human and material resources to meet specified needs.

- e. Document government expenses in response and recovery operations to determine the need for state and federal assistance.

III. Responsibilities

A. County and Municipal Agencies

1. County and Municipal Authorities are responsible for their own public works and infrastructures and have the primary responsibility for incident prevention, preparedness, response, and recovery.
2. County and Municipal Entities are fully and consistently integrated into ESF activities. When activated to respond to an incident, the Primary Agency develops work priorities in cooperation with the County and Municipal governments.
3. County and Municipal Entities are responsible for obtaining required waivers and clearances related to ESF support.

B. Private Sector Agencies

1. Private Sector Entities are responsible for their own infrastructure and have primary responsibility for incident prevention, preparedness, response and recovery for their resources and facilities.
2. The private sector is responsible for a large proportion of the County's infrastructure and participates in ESF incident action planning and other planning activities as appropriate.
3. The private sector is a partner and/or lead for the rapid restoration of infrastructure-related services. Appropriate private-sector entities are integrated into the planning and decision-making processes as required to ensure continuity.

C. ESF Primary and Support Agencies shall:

1. Attend at least quarterly meetings to ensure planning functions are carried out to support this ESF.
2. Assess the need for and prioritize the deployment of services based on available resources and critical needs as they related to your responsibility. Also to develop procedures to obtain private sector support as required.
3. Assemble a list of public works and engineering related assets available to support recovery and coordinate this information with the EOC.
4. Request volunteer agencies and private resources with assets to contribute those assets to the response effort.

5. Evaluate the availability, operational condition and duration of need as well as logistical requirements necessary to obtain critically needed equipment.
6. Participate in drills and exercises to evaluate local communications capability.
7. Maintain records of expenditures and document resources utilized during recovery in accordance with ESF 7 policies and procedures and report these records to the Primary Agency.

D. Chatham County's Department of Public Works shall:

1. Coordinate with each Support Agency through at least quarterly meetings to ensure planning functions are carried out to support this ESF.
2. Oversee the coordination management of resources, facilities and equipment.
3. Develop maintenance and protection arrangements for consolidated public works and engineering response and recovery.
4. Maintain records of expenditures and document resources utilized during response and recovery efforts.

E. Chatham County's Building Safety and Regulatory Services shall:

1. Serve as the Primary coordinator for damage assessment and related tasks. Designated representatives will work closely with the ESF Primary Agency and CEMA to assist in the posting and monitoring of damage reports.
2. Coordinate with other ESFs to consolidate reports of damage and focus assessment efforts.
3. Act as liaison between the EOC and the State EOC for damage assessment activity.
4. Identify and facilitate resolution of area responsibility among agencies involved.
5. Maintain contact with municipal liaisons to collect and relay information.
6. Provide direction on policy issues.
7. Assist with public information releases regarding areas of damage.
8. Coordinate with the ESF Primary Agency to exchange information regarding area condition and accessibility with the Search and Rescue ESF.

