

ANNEX 3 (ESF 3) PUBLIC WORKS AND ENGINEERING TO GREENWOOD COUNTY EMERGENCY OPERATIONS PLAN

Tasked Organization: Greenwood County/City Engineer

**Suggested Liaison: Commissioners of Public Works
Ninety Six and Ware Shoal CPW
Greenwood Metro District (GMD)**

Staff augmentation as directed by County Manager

I. INTRODUCTION

A. Assistance consists of two components: public works to include engineering and damage assessment.

B. Public works refers to those engineering and procurement activities required providing or restoring:

1. Emergency power supplies for critical facilities;
2. Water and sewer services, including emergency supply of potable water, temporary restoration of water supply and sewer systems, and
3. Providing water for firefighting.

C. Engineering activities include:

1. Emergency ice, snow and debris removal.
2. Technical expertise regarding the structural safety of damaged buildings, bridges and highways.
3. Restoration of transportation infrastructure (county roads only) coordination of emergency repairs to public facilities; appropriate construction services (i.e., electrical, plumbing, soils, etc.), and
4. Emergency demolition or stabilization of damaged structures and facilities designated as hazards to public health and safety.

D. Damage assessment includes safety evaluation, assessing, recording and reporting of damage to public and private property.

1. Timely and accurate damage assessment information collection, recording, and reporting are critical during and following an emergency or disaster. This information is essential to determine the need for Greenwood County and/or State/Federal assistance and to document county response and recovery expenditures.

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2. Provide personnel, equipment and technical expertise necessary to assess damage resulting from an emergency or disaster to County and/or municipal facilities and property.
 3. Insure appropriate forms are completed by damage assessment team (DAT).
- E. All sections to this annex will be reviewed and determination made as to the necessary actions required to support individuals classified as "special or functional needs". Actions regarding this category of personnel will be contained in the Standard Operations Procedures.
- F. Review this annex and the EOP and develop Standard Operation Procedures (SOPs) for each task established by this appendix and the EOP.
- G. Annually review the State EOP & Department of Homeland Security Universal Task List and integrate new tasks or actions, as appropriate.

II. MISSION.

- A. Establish policy, procedures, and priorities for the control and restoration of infrastructure, water resources, sanitation, and sewer facilities and to provide for coordinating immediate and continued engineering resources, construction management, emergency contracting, and expertise following a disaster and/or emergency incident.
- B. Provide an accurate assessment of damages, losses, and response and recovery expenditures resulting from an emergency or disaster. Information is necessary to determine the need for State/Federal assistance
- C. Conduct safety evaluations to protect the public health and welfare.

III. CONCEPT OF OPERATIONS

- A. ESF has responsibility for the coordination of all administrative, management, planning, training, preparedness, mitigation, response, and recovery activities to include developing, coordinating, and maintaining the ESF-3 SOP.
- B. All supporting departments and agencies will assist in the planning and execution of the stated responsibilities.
- C. All personnel will be trained on the principles of the National Incident Management System (NIMS) and Incident Command and integrate those principles into all ESF-3 planning and response operations.
- D. All personnel will complete the NIMS 700, ISO 100 and 200 courses

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E. Coordinate with and support the County's Damage Assessment Team(s) (DAT).

F. Assess the situation (both pre- and post-event), and in coordination with the effected Municipal officials, develop strategies for response and recovery.

G. Public Works and Engineering Services

The SC Department of Health and Environmental Control will provide overall guidance concerning water supply matters and will provide guidance for sewage treatment and disposal.

H. The SC Department of Transportation (DOT)

Provide overall guidance concerning structural safety of damaged bridges and roads and will provide guidance for the restoration of the transportation infrastructure.

I. ESF-3 will:

1. Coordinate with County EOC and other ESF-3 support departments/agencies to provide emergency power and the restoration of water and sewer services, debris management, water (potable and non-potable) and ice supplies, and engineering activities as required.
2. Cooperate and coordinate with other ESFs to ensure that Greenwood County assets are deployed effectively and in response to appropriate priorities for the protection of the health, safety, and welfare of Greenwood County citizens.
3. When activated, ESF-3 will support County EOC in the directing and executing Preliminary Damage Assessment (PDA) operations. PDAs will be performed by teams consisting of personnel from the Assessor's Office, Law Enforcement, Fire, DHEC, and Building Inspector's Department. (Note: Red Cross also performs PDAs and coordination may be made to consolidate resources)

J. Damage Assessment Team(s):

1. Conduct Initial Damage Assessments (IDA) to ascertain the dollar amount of damage to public and private property. The results of the IDA will be reviewed by County EOC to determine if a Preliminary Damage Assessment (PDA) will be performed to prepare a request for a State and/or Presidential Declaration.
2. For long term damage assessment activities following a significant disaster, maximum use will be made of supporting agency staff and other qualified volunteer organizations such as private businesses, insurance companies, and

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associations to support operations in the field under the overall supervision of ESF - 3.

IV. ESF ACTIONS

Actions necessary to respond are divided into the four cycles of emergency management. These are: preparedness, response, recovery, and mitigation. Each cycle requires actions to be planned for to insure total readiness. Considerations to be planned for are but are not limited to:

A. Preparedness:

1. General

- a. Participate in Greenwood County exercises to validate this annex and supporting SOPs.
- b. Review this annex and the EOP and develop Standard Operation Procedures (SOPs) for each task. Annually review the EOP & Department of Homeland Security Universal Task List and integrate tasks as appropriate.
- c. Ensure all ESF-3 personnel integrate NIMS principles in all planning. All ESF personnel will complete all required NIMS training, as outlined in the Department of Homeland Security (DHS) training guidance.
- d. All sections to this annex will be reviewed and a determination made as to the necessary actions required to support individuals classified as "special needs". Actions regarding this category of personnel will be contained in the Standard Operations Procedures
- e. Determine staffing requirements for performing EOC duties at the three levels of EOC activation and coordinate needs with Emergency Management Director.

2. Public Works and Engineering

- a. Plan for the provision of water (potable and non-potable) and ice into the disaster area.
- b. In coordination with the DAT and Municipal emergency management officials, develop policy for conservation, distribution, and use of potable and firefighting water.
- c. Identify and locate chemicals to maintain portability of water supply.

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- d. Include in ESF-3 Standard Operating Procedures for an alert list, to include points-of-contact and telephone numbers of agencies, municipalities, commercial and industrial suppliers, and organizations supporting public works and engineering functions.
- e. 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.
- f. Establish operational needs for restoration of public works service during the emergency.
- g. Plan engineering, contracting, and procurement assistance for emergency debris, snow or ice clearance, demolition, public works repair, continuation of water supply and sewer missions.
- h. Coordinate the deployment of damage assessment teams and other engineer teams.

B. Response (Note: all response efforts will focus on actions to save lives, protect property and return conditions to normal operations)

1. Public Works and Engineering

- a. Identify water and sewer service restoration, debris management, potable water supply, and engineering requirements as soon as possible.
- b. Evaluate status of current resources to support ESF-3 operations.
- c. 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.
- d. Recommend priorities for water and other resource allocations.
- e. Procure equipment, specialized labor, and transportation to repair or restore public works systems.
- f. Coordinate for use of state military assets.
- g. Coordinate with ESF-6 for shelter support requirements.
- h. Coordinate with ESF-17 for advice and assistance regarding disposal of debris containing or consisting of animal carcasses.
- i. Coordinate with ESF-10 for advice and assistance regarding disposal of hazardous materials.

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- j. Coordinate with ESF-4 for advice and assistance regarding firefighting water supply.
- k. Damage Assessment
 - a) At the onset of an emergency or disaster, activate the county damage assessment team(s) to be available to deploy.
 - b) Be prepared to provide damage assessment coordinators and support for joint state/federal teams if area damage meet the criteria for a Presidential Declaration.
 - c) Coordinate with ESF-12 for public utility damage assessment information (CPW, Duke and similar businesses).
 - d) Collect, evaluate, and send damage assessment reports to ESF-5 and other appropriate departments/agencies.
 - e) Coordinate County and Municipal damage assessment operations with related State/Federal activities, as required.
 - f) Prepare damage assessment documents and brief EOC Staff regarding qualifying criteria for a State/Presidential emergency or major disaster declaration.

C. Recovery

1. General

- a. Anticipate and plan for arrival of and coordination with State and/or FEMA ESF-3 personnel in the County EOC and a Joint Field Office (JFO) if so established.
- b. Ensure that ESF-3 team members, departments/agencies, or other tasked organizations, maintain appropriate records of time and costs incurred during the event.

2. Public Works and Engineering

- a. Coordinate 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.
- b. Continue to monitor restoration operations when and where needed as long as necessary and until all services have been restored.

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3. Damage Assessment

Develop disaster project worksheets as required.

D. Mitigation

1. Support and plan for mitigation measures.
2. Support requests and directives resulting from the County Council, State EOC, and/or FEMA concerning mitigation and/or re-development activities.
3. Document matters that may be needed for inclusion in Greenwood County/State/Federal briefings, situation reports and action plans.

V. RESPONSIBILITIES

A. General:

1. Maintain inventories and procedures to deploy their public works and engineering assets.
2. Reviewed this annex annually and updates as necessary.

B. Director, Greenwood County Public Works

1. The coordination of all ESF-3 administrative, management, planning, training, preparedness, mitigation, response and recovery activities.
2. Identify, train, and assign personnel to staff ESF-3.
3. Provide all available public works and engineering assets.
4. Establish operational needs for restoration of public works service during the emergency.
5. Identify water and sewer service restoration, debris management, potable water supply, and engineering requirements as soon as possible.
6. Establish priorities to clear roads, debris removal, repair damaged water/sewer systems and coordinate temporary, alternate or interim sources of emergency power and water/sewer services.
7. Recommend priorities for water and other resource allocations.
8. Coordinate the development of a policy for conservation, distribution, and use of potable and firefighting water.

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9. Coordinate a plan for use of state military resources to support ESF-3 operations if such resources are needed.
10. Maintain listings of commercial and industrial suppliers of services and products associated with public works and engineering functions.
11. Recommend priorities for water and other resource allocations.