

# BAXTER COUNTY, ARKANSAS

## ENGINEERING

### ANNEX F

#### I. PURPOSE

The purpose of this annex is to provide plans and procedures for the continuation or restoration of those public services essential for basic human needs, debris removal, and restoration of public access, the accomplishment of a public shelter upgrade program, if needed.

#### II. SITUATION

Baxter County and the communities therein are subject to a number of hazards, which could result in the disruption of utility services to the population, limit the movement of portions of the resident population, or have a general deterring effect on the safety and welfare of the people. A listing of the potential hazards is contained in the current Baxter County Hazard Analysis.

- \* A major to great earthquake in the New Madrid Fault could buckle roads and highways, damage or destroy bridges, render railroad tracks useless eliminate airplane landing strips and thoroughly block water transportation routes. Such conditions would effectively isolate the communities within this county from one another as well as isolate this county from the rest of the state for a period of 72 hours to two weeks.
- \* Because of the potential for large scale destruction to occur throughout the county during impact and following aftershocks, engineering personnel will be surveying for resulting dangerous conditions (e.g. weakened dams and levees, flooding, chemical spills, etc.) throughout the county and initiating appropriate warning and evacuation assistance.

There are insufficient "adequate" shelter spaces under the in- place mode for residents under a nuclear attack situation. Expedited shelter upgrading activity within the time span available will be required.

In the event a crisis should escalate to a nuclear conflict, Baxter County will provide protective sheltering for the resident population. Baxter County resources will be the primary source of the equipment and materials required to conduct a shelter-upgrading program.

### III. ASSUMPTIONS

- A. The Engineering Services officer or his designee will report to the EOC as needed.
- B. The continued operation of utility services throughout the county is essential for effective and efficient response and recovery actions to any disaster or emergency situation.
- C. The primary responsibilities of both county and urban Utility Departments will be the restoration and maintenance of utility services.
- D. Private utility companies will cooperate with and assist government services.
- E. County Road Departments and City Street Departments will maintain roads and streets in a condition to facilitate traffic movement.
- F. Except in a nuclear or post earthquake environment, assistance from outside the county will be available through mutual aid and other existing agreements.
- G. The various county and city agencies have the manpower and equipment inventory to support a shelter-upgrading program.
- H. Establish procedures for the decontamination of personnel, equipment, supplies, instruments, and facilities in a nuclear environment.
- \* I. With the potential for large geographical areas within Arkansas to be severely effected by an earthquake, State, and/or Federal assistance will not be available for a minimum of 72 hours even if transportation routes are available.

### IV. CONCEPT OF OPERATIONS

#### A. Natural and Peacetime Disasters/Emergencies

##### 1. Preparedness Phase

When a severe weather watch has been issued affecting Baxter County, the Engineering Officer will determine the location of critical equipment and supplies and availability of personnel.

Upon issuance of a severe weather warning or warning of other hazards affecting Baxter County the Engineering Officer will notify personnel of impending threat, move critical equipment to a safe location and secure or protect materials.

2. Response Phase

Upon impact of a disaster, the Engineering Officer will take protective actions and begin planning for the recovery phase.

The Engineering Officer will dispatch needed personnel and equipment to required sites. He will allocate and dispatch repair and relief materials to damage locations. He will set up and establish work shifts and maintenance schedules for working equipment and manpower.

Insure that all critical facilities (especially EOC) have utility services and are structurally safe to utilize.

Determine safety of evacuation routes in flood and post earthquake environments.

B. Nuclear Attack Crisis

1. Preparedness Phase

During this phase, the Engineering Officer will review and update emergency operations plans, inspect and insure operability of essential key equipment, facilities and amass supplies. If order to relocate is issued the shelter upgrade program will be implemented.

Provide support for the marking of fallout shelters.

2. Response Phase

Upon receipt of attack warning, the Engineering officer will alert all personnel assigned to take immediate shelter and improvise protection from the effects of blast, fire, and initial radiation.

When conditions permit, the Engineering Officer will move from the shelter area, inventory surviving forces and initiate necessary action for recovery operations.

Provide support for decontamination activities.

V. ORGANIZATION AND RESPONSIBILITIES

A. Organization

The Engineering organization consists of an Engineering Officer and those persons named to assist by the Baxter County Judge.

B. Responsibilities

1. Each of the individual departments within the Engineering function will be responsible for emergency/disaster operations within their normal operational areas. Specific operational procedures will be as outlined in existing departmental emergency plans. A call-down list will be established to insure personnel can be notified of emergency situations. One person will be assigned to man the dispatch center and coordinate with the EOC and relay appropriate reports to the EOC.
2. In the event a shelter upgrade program is initiated, the Engineering Officer will assume the lead role in coordinating the use of manpower and heavy equipment required to accomplish the task.
3. Set up an inspection to designate unsafe or usable buildings after a disaster and begin demolition of unsafe structures.
4. Protect water supply and sewage systems from the effects of hazardous materials incidents.
5. The Engineering Officer will identify available resources to transport potable water and provide sanitation services during a disaster/emergency. Also, provide backup electrical power to EOC.
6. Coordinate with Corps of Engineers for assistance in draining flooded areas.
- \*7. Endeavor to have earthquake resistant structures that house engineering personnel and emergency vehicles, supplies and equipment.
- \*8. Encourage county wide structural hazard mitigation.  
This includes:
  - a. Inventorying and classifying all buildings and other structures vulnerable to earthquakes.
  - b. Assessing relative risk to public safety of each class of structure, enacting and enforcing necessary ordinances and statues to mitigate or abate the threats.
  - c. Preparing lists of vulnerable structures for use in evacuation and damage assessment.
  - d. Developing earthquake risk mapping.
  - e. Improving the earthquake resistance and survivability of structures.
  - f. Replacing the county's unsafe buildings and other facilities with safe structures.

- \* 9. Encourage county wide nonstructural hazard mitigation:
  - a. Identifying nonstructural items, such as fixtures and components in homes, workplace, and elsewhere, which are both vulnerable to earthquakes and a threat to public safety or health.
  - b. Proposing a range of strategies for reducing or eliminating these current threats.
  - c. Identifying and recommending the most cost effective ways to eliminate these threats in the future.

## VI. ADMINISTRATION AND LOGISTICS

### A. Administration

1. A record of costs and expenses incurred in direct support of an emergency or disaster situation will be maintained to support subsequent reimbursement claims to state and federal government. Examples of fiscal expenditures, which should be recorded, fully detailed, and maintained, are:
  - a. Personnel costs which exceed "normal" costs, i.e., overtime.
  - b. Equipment rental or lease.
  - c. Costs of materials and supplies used for direct support of emergency operations and recovery actions.
  - d. Contracts entered into for emergency operations and recovery actions.
2. The persons responsible for the implementation of this annex will annually review the annex to insure currency.

### B. Logistics

1. If increased readiness is implemented, assistance from outside the county cannot be expected. Any actions taken will be dependent upon those resources available within the county. For a shelter upgrading program, local contractors, businesses using heavy equipment and dealers will be sources of both operators and equipment if needs exceed government resources. At the discretion of local officials, letters of agreement or memorandums of understanding will be accomplished with local contractors and implement and heavy equipment dealers to insure availability of equipment and to expedite acquisition of equipment and assistance needed for emergency activity.

ATTACHMENTS:

1. Utility Services
2. Engineering Emergency Response Checklist

\* Earthquake Specific

ATTACHMENT 1

UTILITY SERVICES

Electric Utilities

AP&L	1-800-968-8243
North Arkansas Electric Co-op.	1-870-425-2141

Telephone Utilities

Century Telephone	1-800-225-2594
Yelcot Telephone	1-870-435-6111

Gas Utilities

Arkansas Western Gas Co.	1-870-425-5445
Anderson Propane	1-800-789-5549
Empire Gas Co.	1-870-741-5666
Amerigas	1-870-425-2121
Synergy Gas	1-870-425-5141

Water Systems Utilities

Lakeview – Midway Water Association Inc.	1-870-431-8777
Northeast Water Association	1-870-492-4211
Mountain Home Water Dept.	1-870-425-5115
Gassville-Cotter Water Dept.	1-870-435-6439
Briarcliff Improvement District	1-870-491-5126

ATTACHMENT 2  
ENGINEERING  
EMERGENCY RESPONSE CHECKLIST

Position/Organization

PREPAREDNESS PHASE

ENGINEERING SERVICE

- \_\_\_\_\_ Develop and maintain individual departmental emergency plans and procedures
- \_\_\_\_\_ Develop and maintain inventory of individual departmental resources
- \_\_\_\_\_ Accomplish both inter and intra mutual aid agreements as needed
- \_\_\_\_\_ Estimate needs versus resources to determine short falls
- \_\_\_\_\_ \*Contact counterpart in risk county organization and establish liaison procedures
- \_\_\_\_\_ Apprise resource group of existing inventories and advise if major changes occur
- \_\_\_\_\_ During increased readiness or warning periods, alert all operational departments and put personnel on standby status
- \_\_\_\_\_ Assemble key departmental personnel
- \_\_\_\_\_ Determine potential magnitude, severity, and anticipated duration of hazard situation
- \_\_\_\_\_ Estimate needs versus resources to determine potential short falls
- \_\_\_\_\_ Advise resources group of anticipated shortfalls, if any
- \_\_\_\_\_ \*Advise risk county counterpart of anticipated needs and support required
- \_\_\_\_\_ Accomplish letters of agreement/memorandums of understanding if directed by local officials
- \_\_\_\_\_ Coordinate with Shelter and Evacuation Officer on shelter facilities planned for use
- \_\_\_\_\_ \*Coordinate with Shelter and Evacuation Officer to establish shelter upgrading priorities
- \_\_\_\_\_ \*Review specific procedures for shelter upgrading (including review of equipment needed versus available)
- \_\_\_\_\_ \*Pre-select borrow pit areas as close as possible to facilities to be upgraded

- \_\_\_\_\_ \*If equipment/operator shortfalls exist for upgrading program, advise risk county counterpart of estimated needs
- \_\_\_\_\_ Determine availability of, quantity, and procedures to obtain sandbags
- \_\_\_\_\_ Assist in development of general resolution to permit access for emergency stream bank/dike repair
- \_\_\_\_\_ Pre-select sites for acquisition of material for emergency stream bank/dike repair
- \_\_\_\_\_ Pre-select dumping sites for debris and other materials for disposal
- \_\_\_\_\_ Determine condition of roads and implement required maintenance with first priority on crisis relocation or evacuation routes
- \_\_\_\_\_ Review requirements for location of traffic control devices and ascertain if sufficient devices are available
- \_\_\_\_\_ Determine current status of Public utilities
- \_\_\_\_\_ Develop limited use policies for submission to local officials in the event needs exceed utilities capabilities
- \_\_\_\_\_ Establish liaison with local private utilities
- \_\_\_\_\_ Review existing service to designated mass care and shelter facilities to determine service needs
- \_\_\_\_\_ Review emergency power generating capability - fixed and mobile

\* Crisis Relocation Implemented

RESPONSE PHASE

ENGINEERING OFFICER

- \_\_\_\_\_ Implement mitigation actions commensurate with disaster situation
- \_\_\_\_\_ Clear emergency routes and arterial streets to facilitate movement of emergency repairs on key buildings and facilities
- \_\_\_\_\_ Effect temporary, emergency repairs on key buildings and facilities
- \_\_\_\_\_ Effect temporary, emergency road repairs as needed
- \_\_\_\_\_ Establish detour routings
- \_\_\_\_\_ Position traffic control devices
- \_\_\_\_\_ Insure all streets, highways, and roads are reopened to traffic
- \_\_\_\_\_ \*Review techniques, procedures, and requirements for shelter upgrading and implement upgrade program when directed
- \_\_\_\_\_ \*Obtain heavy equipment for shelter upgrading and review equipment capabilities; request Resource and Supply support, if needed
- \_\_\_\_\_ \*Coordinate with Resource and Supply Officer on personnel requirements for upgrading
- \_\_\_\_\_ \*Coordinate with Resource and Supply Officer on lumber and hardware needs
- \_\_\_\_\_ \*Review shelter upgrading status and coordinate with Shelter and Evacuation Officer on priorities
- \_\_\_\_\_ \*Support crisis shelter marking activity
- \_\_\_\_\_ \*Provide traffic control devices and position as requested by law enforcement to control relocatee traffic.
- \_\_\_\_\_ Support decontamination activity for hazardous material accident/radiological incident
- \_\_\_\_\_ Provide priority service to evacuation routes
- \_\_\_\_\_ Maintain administrative records to support fiscal accounting
- \_\_\_\_\_ Restore interrupted service
- \_\_\_\_\_ Assist resource group in providing emergency power to critical facilities and locations

- \_\_\_\_\_ Monitor utility usage and assess capabilities
- \_\_\_\_\_ Install or restore service to facilities to be used if no service available
- \_\_\_\_\_ Recommend establishment of reduced service areas, if necessary
- \_\_\_\_\_ Maintain administrative records to support fiscal accounting

\* Crisis Relocation Implemented

RECOVERY PHASE

ENGINEERING OFFICER

- \_\_\_\_\_ Restore all streets, roads, and highways to normal conditions
- \_\_\_\_\_ Recover traffic control devices
- \_\_\_\_\_ Make temporary repairs to street or road structures or establish detour routes
- \_\_\_\_\_ Complete debris clearance activity
- \_\_\_\_\_ \*Remove shielding material from upgraded buildings
- \_\_\_\_\_ Return borrowed or requisitioned equipment and material
- \_\_\_\_\_ Insure egress routes are maintained in optimum condition
- \_\_\_\_\_ Assist in damage assessment activity
- \_\_\_\_\_ Submit administrative reports as directed by Executives
- \_\_\_\_\_ Complete restoration of normal services
- \_\_\_\_\_ Conduct safety inspection prior to restoration of private dwelling service
- \_\_\_\_\_ Replace damaged or destroyed utility service equipment
- \_\_\_\_\_ Terminate services for vacant or unoccupied buildings, which were used for mass care or shelter
- \_\_\_\_\_ Submit administrative reports as directed by Executives
- \_\_\_\_\_ Assist in damage assessment activity

\* Crisis Relocation Implemented