

EMERGENCY SUPPORT FUNCTION # 3 Public Works and Engineering Annex

PRIMARY AGENCIES

Mohave County Public Works – Lead in Unincorporated Area
Lake Havasu City Public Works
Bullhead City Public Works
Colorado City Public Works

SUPPORT AGENCIES

Mohave County Emergency Management
Mohave County Planning and Zoning
Kingman Public Works

Available through the Department of Emergency and Military Affairs

Department of Emergency and Military Affairs
Arizona Corporation Commission
Arizona Department of Transportation
Arizona Department of Environmental Health
Arizona Department of Environmental Quality
Arizona National Guard
Arizona Department of Water Resources
Private: Associated General Contractors of Arizona

I.Purpose, Scope, Situations, and Assumptions

Purpose

- Provide public works and engineering support to county agencies and local government.

Scope

- Technical advice and evaluations, engineering services, construction management and inspection, emergency contracting, damage assessment and emergency repair of public infrastructure, and real estate support.
- Activities within this Essential Support Function (ESF) include:
 - Emergency flood fighting operations.
 - Emergency debris clearance for reconnaissance of damage areas and passage of emergency personnel and equipment.

- Identification of emergency landfill areas for debris disposal.
- Temporary construction of emergency access routes that include damaged streets, roads, bridges, airfields, and any other facilities necessary for passage of rescue personnel.
- Emergency restoration of critical public services and facilities including temporary restoration of potable water supply systems and wastewater treatment facilities.
- Emergency demolition or stabilization of damaged structures and facilities designated by county or local government as immediate hazards to the public health and safety.
- Temporary protective measure to abate immediate hazards to the public for health or safety reasons until demolition is accomplished; and
- Technical assistance and damage assessment, including structural inspection.

Situation and Assumptions

- Rapid damage assessment of the disaster area will be required to determine potential workloads and priorities for rapid road clearance.
- Access to the disaster areas will be dependent upon the reestablishment of ground routes. Debris clearance and emergency road repairs will be given top priority to support immediate lifesaving emergency response activities.
- Prioritization of the restoration of roadways and services will include consideration of the weather and the impact that the loss of services is having on the public to include families, children, and those individuals with access and functional needs.
- Outside resource assistance may be needed to clear debris, do damage assessment and structural evaluations, make emergency repairs to essential public facilities, reduce hazards by stabilizing or demolishing structures, and provide water for human health needs and firefighting.

- Emergency environmental waivers and legal clearances will be needed for disposal of materials from debris clearance and demolition activities, and existing landfills may need to be augmented by areas pre-designated for temporary clean debris disposal.
- Personnel with engineering and construction skills, and construction equipment and materials will be required from outside the disaster area.
- Reevaluation of previously assessed structures and damages may be required.

II. Concept of Operations

- Mohave County Public Works will mobilize in accordance with its Emergency Operations Manual guidelines to conduct field assessment of blocked or flooded roads and infrastructure damage and implement road closures, detour direction, emergency signage, and emergency repairs.
- In an event of a disaster Mohave County Emergency Management (MCEM) will assist and manage resources in accordance with the Mohave County Public Works Emergency Operations Manual (under separate cover). The Public Works Department Operations Center (PWDOC), located within the Gold Conference Room of the Public Works Building at 3715 Sunshine Drive, Kingman, will be partially or fully activated depending on the level of emergency as defined in the Manual. Upon activation of the Mohave County Emergency Operation Center (MCEOC), the Mohave County Public Works Director, or his/her designee, will respond to the MCEOC and provide public works and engineering support oversight and advice to the Policy Group and Operations Section.
- MCEM and MCEOC staffers will coordinate county resources to assist county and local government in emergency work and identify resources that could assist county and local utilities in emergency restoration.
- The Public Works Department of each incorporated city will be responsible for response and recovery functions as designated in the city's emergency operations plans and may request mutual aid from county resources.
- Should the combined resources of local, county, and private agencies prove inadequate, MCEM will, through the Department of Emergency and Military Affairs (DEMA), request state activation of ESF # 3, Public Works, and/or ESF #12, Energy, of the State Emergency Response and Recovery Plan.

III.Organization and Assignment of Responsibilities

Organization

- Public Works Departments will function under the ICS/NIMS protocols.
- City Public Works Departments will report and activate as designated in their respective emergency plans and protocols.
- For disasters involving multiple response agencies and jurisdictions, all agency and jurisdictional resources will integrate into the field Incident/Unified Command.
- Incident/Unified Commanders will report to and receive support and policy guidance from the appropriate jurisdictional EOC's.

Assignment of Responsibilities

- **Local Government**
 - **City Public Works Departments will:**
 - Be responsible for response and recovery tasks designated in individual jurisdiction emergency operations plans.
 - Be prepared to provide mutual aid to other jurisdictions if directed to do so by the appropriate city government officials.
 - **Mohave County Public Works (MCPW) will:**
 - Provide personnel, equipment, supplies, and other resources to assist in emergency operations such as repairing roads, bridges, debris removal, flood fighting, emergency repair of County facilities, building maintenance, and other related tasks.
 - Assist in identifying and assigning priority to the clearance of evacuation routes; access routes to critical facilities such as hospitals, long term care facilities, police and fire stations, and utility infrastructure; and access routes to specific areas with immediate life safety concerns such as fires, building collapses, etc.

- Provide engineering support to conduct Rapid and Preliminary Damage Assessments (PDA's) and prepare Damage Survey Reports (DSR's).
 - Provide a liaison to the Incident Commander when requested, or a qualified supervisor to serve as part of the Unified Command or as Incident Commander in situations where a primary operational function is a Public Works responsibility (debris removal, flood fighting).
- **Mohave County Emergency Management will:**
 - Assist the Mohave County Finance Department in procedures for documenting expenditures.
 - Train personnel selected to assist with damage assessment surveys prior to their deployment to the disaster area.
 - Maintain a list of counties, state, and private resources, including building and construction contractors, for inclusion in the Resource manual under separate cover.
- **State Government**
 - **The Department of Environmental Quality (ADEQ) will:**
 - Provide personnel to assist in damage assessment of water systems and wastewater systems and determine necessary emergency repairs.
 - Assist in locating suitable debris disposal sites and provide guidance on areas affected by hazardous materials (See ESF # 10).
 - Issue emergency environmental waivers and legal clearances for disposal of materials from debris clearance and demolition activities.
 - **The National Guard**, if activated, may provide personnel, supplies, transportation, and equipment, dependent upon availability.
 - **Arizona Department of Water Resources (ADWR)** will provide technical engineering expertise in determining emergency operations required

for irrigation, flood control facilities, dam safety, drainage channels, and other related areas.

- **Arizona Department of Transportation** will provide technical expertise, heavy equipment, and other resources, if available, upon request by Public Works.

- **Federal Government**

- **Federal Highway Administration** will provide funding for emergency protection and repair of roads and bridges identified under the Highway User Fund (HURF) program guidelines.
- **Natural Resource Conservation Service** will provide technical expertise and emergency funding for floodway bank protection and stabilization adjacent to private homes and property.
- **U.S. Army Corps of Engineers** will provide technical guidance and regulatory review and approval for bank protection and stabilization projects on all navigable streams and rivers.

- **Other Agencies**

- **Public Utility Companies** will take measures to rapidly restore utilities or acquire alternative temporary services, including requests for assistance from outside utility companies, requests for assistance through the MCEOC, and notification to the MCEOC of the estimated duration of service outages.

IV.Direction, Control, and Coordination

- Direction and Control will be exercised by the Incident/Unified Commanders for operational functions. Support and policy direction to Incident/Unified Command will be provided by the appropriate city or county EOC.

V.Information Collection and Dissemination

- Information will be provided through pre-designated or established communication plan links within the ICS structure utilizing radios, cell phones, satellite phones, and e-mails. Emergency workers will provide and receive information from their immediate supervisors in the ICS structures. Incident

Commanders and Staffers within the various functional sections of an Incident Command Post or EOC may communicate with their counterparts in other ICP's or EOC under procedures established in the incident communications plan.

VI. Administration, Finance, and Logistics

- **Mohave County Public Works will:**
 - Identify operating personnel and equipment for emergency response, maintain emergency call lists, and ensure that personnel have received appropriate ICS and NIMS training.
 - Maintain, in conjunction with Mohave County Procurement Department and MCEM, a list of private entities with equipment and other resources including but not limited to fuel, and develop pre-disaster agreements with such entities for use of resources.
 - Utilize existing procedures, and any special procedures directed by Mohave County Finance Department, to document all emergency/disaster related expenditures. (Department of Emergency and Military Affairs and FEMA Disaster Assistance Guides will provide useful guidance.)
- **Mohave County Emergency Management will:**
 - Assist utilities in developing or improving emergency procedures.
 - Identify areas of assistance that can be provided to utilities.
 - Maintain a 24-hour listing of emergency coordinators from each regulated utility in the county.
 - Assist MCPW in the maintenance and update of this ESF and related SOP's.