

Emergency Support Function 3 – Public Works and Engineering

Primary Agency Illinois Department of Transportation - Division of Highways (IDOT-H)

Support Agencies Illinois Department of Central Management Services (CMS)
Illinois Commerce Commission (ICC)
Illinois Department of Corrections (IDOC)
Illinois Department of Military Affairs (IDMA)
Illinois Department of Natural Resources (IDNR)
Illinois Environmental Protection Agency (IEPA)
Capital Development Board (CDB)
Illinois Department of Transportation - Division of Aeronautics (IDOT-A)
Office of the State Fire Marshal (OSFM)
Illinois Historic Preservation Agency (IHPA)
Illinois Department of Public Health (IDPH)
U. S. Army Corps of Engineers (USACoE)

I. Introduction

A. Purpose

1. The purpose of this Annex is to establish policies on how Public Works and Engineering support will be provided to supplement local emergency response following a major or catastrophic disaster and a subsequent activation of the IEOP.

B. Scope

1. This Annex provides for Public Works and Engineering emergency support to State and local organizations from the immediate response through the recovery phases. Activities/missions covered by this function include:
 - a. debris removal,
 - b. temporary construction of roads, bridges, etc.,

- c. emergency structures (levees, sandbagging, etc.),
- d. damage assessments,
- e. structural evaluations of buildings,
- f. emergency demolition,
- g. technical assistance to local governments,
- h. dredging, floating plants,
- i. emergency support to critical public facilities,
- j. railroad infrastructure coordination,
- k. utility infrastructure coordination,
- l. temporary power and generator support,
- m. dam safety,
- n. emergency contracting,
- o. construction management,
- p. real estate services,
- q. engineering services,
- r. procurement of construction material and equipment.

II. Assumptions

- A. Access to disaster areas will be dependent upon the reestablishment of priority routes. In many situations, debris clearance and emergency road repairs will be given top priority to support immediate lifesaving emergency response activities.

- B. Rapid damage assessment of the disaster area will be required to determine the potential workload.
- C. The State must identify priorities for repairs and maintain liaison with local communities.
- D. Emergency environmental permits and exemptions may be needed for disposal of materials from debris clearance and demolition activities.
- E. Missions will be coordinated by the Public Works team at the SEOC. Only missions approved by the SEOC will be accepted.

III. Concept of Operations

A. General

1. The Illinois Department of Transportation - Division of Highways is the Primary Agency for most engineering and public works activities. If an activity involves an airport or a dam, the Division of Aeronautics or Illinois Department of Natural Resources (IDNR), respectively will oversee it.
2. The US Army Corps of Engineers (USACoE), through their Emergency Measures Program, can provide levee reinforcement and other efforts to mitigate potential flooding.
 - a. The lead Corps of Engineers office for Illinois is the North Central Division because most of the State is within the North Central jurisdictional boundary. Other USACoE divisions that may be involved in planning any response operations are the Ohio River Division (Southern three quarters of Indiana and Ohio and Southeast Illinois) and the Lower Mississippi Valley Division (Southwest half of Illinois).
 - b. USACoE operational responsibilities for response and recovery will be the division most severely impacted.
3. IEMA has contacted the Consulting Engineers Council of Illinois about providing specially trained engineers for post-

earthquake safety evaluations of buildings. Other similar professional organizations may also provide personnel for damage assessment.

B. Notifications

1. The SEOC will contact IDOT through normal office telephone numbers during duty hours and through IDOT's Station One after hours. IDOT will in turn provide notification to IDOT district offices. Notification will be made to agencies in accordance with Communications Annex, Appendix 1, Notification of the Communications Annex.

C. Operational Structure

1. All disaster operations will be conducted in accordance with the Illinois Disaster Management System (IDMS) and the National Incident Management System (NIMS).
2. IDOT-H will provide a SEOC representative. The District Office(s) in the affected areas will be responsible for the majority of personnel using a combination of contract and district personnel. Ideally, central office personnel will be assigned to the Public Works team at the SEOC, but the situation may dictate that other personnel be used. Personnel from each district will be trained to work at the UAC.
3. Appropriate additional field offices will be designated for each disaster area from which mission assignments will be accomplished. As mission assignments are received at the SEOC, they will be passed on to the District Office(s).
4. In some cases, local requests may be met directly through the UAC Team. The SEOC will be informed of the assignment of tasks.
5. Some agencies can provide personnel support to field operations or be tasked to perform specific missions. Personnel will be assigned on temporary duty to the appropriate district.

Any support agency will be expected to coordinate closely with the appropriate district in accomplishing the assigned mission(s).

D. Federal Coordination

1. Under a Presidential Declaration of a major disaster or emergency, State agencies may coordinate with their Federal counterparts when Federal assets are required.

IV. Responsibilities

A. Primary Agency - Illinois Department of Transportation - Division of Highways

1. provides program support, designates personnel for the SEOC team, and participates in training and exercises to prepare for implementation of the IEOP. Specific guidance to execute assigned missions under this Annex has been developed and will be maintained by IDOT,
2. executes public works missions through districts in accordance with guidance contained herein and as specified in district manuals and existing emergency contingency plans. Districts will designate sufficient personnel to efficiently and rapidly execute assigned missions and will ensure these personnel are properly trained for mission accomplishment,
3. employs highway maintainers who could perform:
 - a. damage assessment of highway systems,
 - b. temporary and permanent repairs to highway systems,
 - c. transportation of equipment and materials,
 - d. emergency communications.
4. provides field engineers to direct highway maintainers, assess damages, and make repairs to highway systems,

5. provides three-person teams trained to inspect bridges and other highway structures,
6. provides for the establishment of dedicated voice communication systems at all IDOT operation levels to include: commercial telephone service, IEMA networks, cellular telephones, HF single side band radio, other radio systems and existing regional microwave or other communication systems. (See Communications Annex),
7. maintains command centers located in Springfield, Carbondale, Peoria, Schaumburg, and Collinsville with radio equipment to communicate with IEMA and Illinois State Police (ISP),
8. maintains an extensive inventory of heavy and light equipment throughout the State which could be used to respond to a WMD incident, catastrophic earthquake, or structural collapse,
9. maintains material testing laboratories throughout the State which would be used to provide expedient material testing for repairs to highway systems,
10. maintains a list of pre-qualified construction contractors which could be contracted with to expediently repair highway systems,
11. maintains a list of pre-qualified consulting engineering firms which could be contracted to perform damage assessment or design services,
12. maintains a list of different trucking firms which could be contracted to haul materials or equipment.

B. Support Agencies

1. Illinois Department of Central Management Services
 - a. procures vehicles and specialized equipment for use in response operations,

- b. procures equipment not typically available through State sources from commercial vendors or suppliers,
 - c. maintains list of fuel vendors on contract with the state and assists in procurement of fuel for response vehicles,
 - d. has staff of stationary and travelling mechanics,
 - e. maintains list of contractual vendors for maintenance, repair, and parts for response vehicles.
2. Illinois Commerce Commission
- a. acts as liaison to utility (to include electric, telecommunications and gas pipeline) and railroad companies to facilitate communication for recovery and reconstruction.
 - b. provides a list of track safety and hazardous material inspectors in the transportation division for response to railroad related emergencies.
3. Illinois Department of Corrections
- a. provides personnel to assist in preliminary building evaluations,
 - b. supervises inmate labor to assist with debris removal and public works repairs,
 - c. provides vehicles with operators for hauling materials and equipment,
 - d. provides officers to perform (limited duties) security for affected areas.
4. Illinois Department of Military Affairs
- a. provides aerial reconnaissance to identify damaged infrastructure,

- b. provides portable generators and lighting for work in affected areas where utilities have been disrupted or for 24-hour emergency operations in remote locations,
 - c. provides personnel and equipment for earthmoving, debris removal, refueling, and building trades support.
5. Illinois Department of Natural Resources
- a. provides engineers and technical staff with expertise on dams and other water control structures,
 - b. provides trucks, bull dozers, excavators, scrapers, and tractors which can be used for debris removal or infrastructure repairs,
 - c. provides boats and trailers with operators which can be used for law enforcement patrols, damage assessment of water control structures, and other emergency protective measures,
 - d. provides chainsaws, portable generators, and pumps which can be used to conduct disaster response activities,
 - e. provides support in the event of a catastrophic earthquake through use of Mines and Minerals Analytical Laboratory.
6. Illinois Environmental Protection Agency
- a. provides assistance in expediting permits, approval or oversight of disaster debris,
 - b. provides engineering staff capable of providing technical assistance on operating and assessing damage to public water supply systems and waste water treatment facilities,
 - c. has a list of commercial contractors to perform hazardous material cleanup in the State of Illinois.

7. Capital Development Board
 - a. provides technical engineering and architectural staff capable of evaluating damage to public facilities and conducting post-earthquake safety inspections of buildings,
 - b. provides assistance in the expedient identification of State owned or controlled buildings that can be converted for use as emergency shelters,
 - c. maintains a list of pre-qualified architectural and consulting/engineering firms which can be used on a contractual basis during emergencies.

8. Illinois Department of Transportation - Division of Aeronautics
 - a. provides aircraft and personnel for aerial reconnaissance of damaged areas,
 - b. provides technical assistance through civil engineers in the evaluation and repair of damages to airport facilities,
 - c. maintains a list of pre-qualified consulting engineering firms which can assist state staff in the evaluation and repair of damages to airport facilities.

9. Office of the State Fire Marshal
 - a. provides qualified personnel to perform inspections of flammable liquid and LP-gas storage tanks and facilities,
 - b. provides additional expertise and manpower through the fire service.

10. Illinois Historic Preservation Agency
 - a. provides staff liaison to Public Works Team at SEOC to assist in the identification of and recommend treatment approaches for known or potential significant historical,

architectural, engineering, and archaeological properties within the disaster area,

- b. provides technical cultural resources, architectural engineering, and archaeological staff possessing the capabilities to identify and evaluate damage to and recommend prudent preservation approaches for affected historic resources,
- c. provides legal clearance for emergency actions affecting historic resources,
- d. maintains lists of architect/engineering firms and archaeological firms which could be contracted to perform damage assessment, design service, or survey/excavation work on historic resources.

11. Illinois Department of Public Health

- a. provides specialized health personnel to assist with response and recovery operations, as requested.

12. US Army Corps of Engineers: (See Section III. A. 2.)

V. Authorities

- A. All IDOT authorities for emergency response related activities are derived from the IEMA Act.

VI. References

- A. IDOT Emergency Operations Manual, 2006
- B. IDOT Emergency Highways Traffic Regulation Plan (10 Volumes)
- C. IDOT-H Earthquake Preparedness Plan (2006)