

Emergency Response

World Trade Center

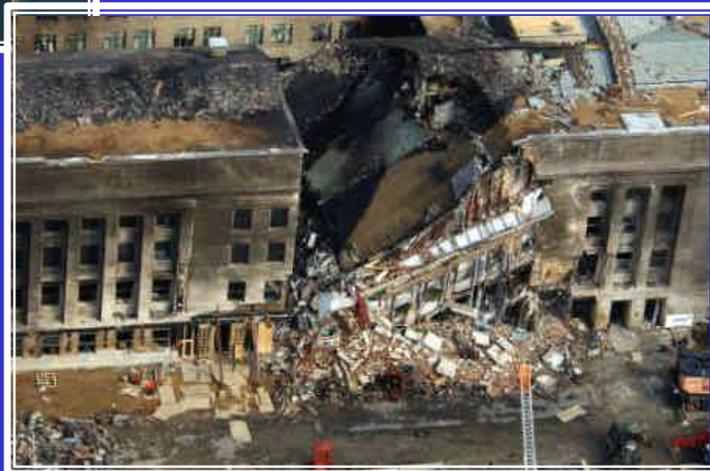
and

Pentagon

amec

Activities classified in three criteria categories

- General Emergency Response
- Immediate Emergency Response Activities
(*first 48 hours*)
- Follow-up Emergency Response Activities
(48 hours to 2 weeks)



General Emergency Response Activities

- Scope / Schedule / Budget / Cost
 - ⇒ Ability to work with unknown
 - ⇒ Challenge of ever changing environment
 - ⇒ Challenge to focus on efforts at hand
 - ⇒ Determination of who “really” is in charge



General Emergency Response Activities *(cont'd)*

➤ Project Management / Resources / Coordination

⇒ Evacuation Plan in place and understood

⇒ Create & implement a “typical” emergency response team

⇒ Key Relationships

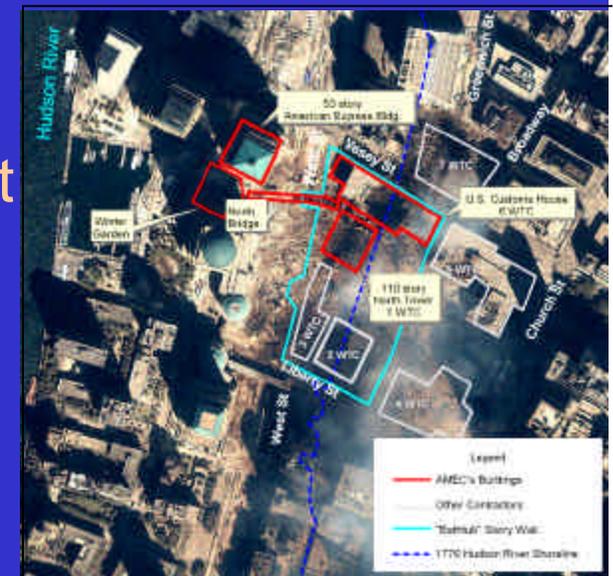
✓ Subcontractors

✓ Trade Unions

✓ Local, State, and Federal Government

✓ Suppliers

⇒ Emergency Site Checklists



General Emergency Response Activities *(cont'd)*

➤ QA / QC / Safety

⇒ Create and have available:

- ✓ EH&S Plan
- ✓ QA/QC Procedures
- ✓ Job Safety Plans





Lessons Learned

First 48 h



Lessons Learned – First 48 Hours

➤ Scope / Schedule / Budget / Cost

- ✓ Establish and maintain 24-hour contact links
- ✓ Be innovative, resourceful, unique
- ✓ Dissect project into logistical components
- ✓ Organize and staff for 24/7 operation
- ✓ Plan for shift work
- ✓ Account for people, labor hours, equipment



Lessons Learned – **First 48 Hours** *(cont'd)*

➤ Project Management / Resources / Coordination

- ✓ Establish lines of responsibility/authority
- ✓ Implement Emergency Response Organization
- ✓ Keep Corporate Leadership informed
- ✓ Involve Corporate Safety Director
- ✓ Use corporate tools to locate:
 - ❑ Personnel with special skills
 - ❑ Specialized equipment
 - ❑ Trade union/subcontractors/suppliers



Lessons Learned – **First 48 Hours** *(cont'd)*

➤ Project Management / Resources / Coordination *(cont'd)*

- ✓ Key personnel and subcontractor contact methods
 - ❑ Phone (office, home, cell) & beeper
- ✓ Track Emergency Response Team at all times
- ✓ Maintain confidentiality
- ✓ Assign media contact
- ✓ Assign contract and insurance matters to corporate and legal counsel



Lessons Learned – **First 48 Hours** *(cont'd)*

➤ Project Management / Resources / Coordination *(cont'd)*

✓ Understand Chain of Command for external forces:

- Fire
- Police
- FBI
- Military
- FEMA
- Ownership Group

✓ Food/Beverage/Clothing

✓ Maintain Photography log/control distribution

✓ Identify utility interfaces



Lessons Learned – **First 48 Hours** *(cont'd)*

➤ QA / QC / Safety

- ✓ Environmental Manager defines response plan
- ✓ Potential hazards identified
- ✓ Review of most obvious and threatening hazards
- ✓ Perform detailed investigation/Inventory
- ✓ Update evacuation plan





Lessons Learned

48 Hours to 2 Weeks



Lessons Learned – 48 Hours to 2 Weeks

➤ Scope / Schedule / Budget / Cost

- ✓ Complete investigation of utilities
- ✓ Develop/implement/control the procedure for ordering materials
- ✓ Ascertain contractual requirements
- ✓ Access/job/be flexible/innovative



Lessons Learned – 48 Hours to 2 Weeks

➤ Scope / Schedule / Budget / Cost_(cont'd)

- ✓ Keep dialogue open for viable options
- ✓ Establish daily coordination meetings
- ✓ Keep employee from “hanging around”
- ✓ Document all activities



Lessons Learned – 48 Hours to 2 Weeks *(cont'd)*

➤ Project Management / Resources / Coordination

- ✓ Create/Implement/
Train Crisis
Management Team
- ✓ Reaffirm location of
Emergency Response
Team
- ✓ Establish rest area
- ✓ Identify
competitors/other
subcontractors



Lessons Learned – 48 Hours to 2 Weeks *(cont'd)*

➤ Project Management / Resources / Coordination

- ✓ Provide quick identification through company logo use
- ✓ Require personal identification be carried
- ✓ Maintain fully staffed/equipped onsite field office



Lessons Learned – 48 Hours to 2 Weeks *(cont'd)*

➤ Project Management / Resources / Coordination *(cont'd)*

- ✓ Review job status daily with team
- ✓ Meet regularly with client (mutual concerns/ corrective actions)
- ✓ Continue regular/ effective team communications



Lessons Learned – 48 Hours to 2 Weeks *(cont'd)*

➤ Project Management / Resources / Coordination *(cont'd)*

- ✓ Employee assistance (stress, fatigue, anger)
- ✓ Maintain bulletin board
- ✓ Be prepared for client “thinking-out-of-the-box”



Lessons Learned – 48 Hours to 2 Weeks *(cont'd)*

➤ QA / QC / Safety

- ✓ Customize health and safety plan
- ✓ Weekly risk assessment
- ✓ Regular daily safety meeting
- ✓ Assess weather impacts
- ✓ Monitor the workers (health & safety)
- ✓ Complete detailed, all-hazards inventory
- ✓ Continue to Manage EH&S issues



A close-up, slightly blurred image of the American flag, showing the stars and stripes in shades of red, white, and blue. The flag is draped and appears to be waving.

Emergency Response

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The logo for amec, featuring the word "amec" in a bold, lowercase, sans-serif font. To the right of the text is a circular icon containing a stylized, three-dimensional representation of a globe or a sphere with a blue and green color scheme.