Alabama Tornado Response
Mission Briefing

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The Corps Responds under three authorities:

- Federal Emergency Management Agency Support
- Department of Defense
- U.S. Army Corps of Engineers Authorities
**SUPPORT TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY**

- U.S. Army Corps of Engineers is lead for one of 15 federal mission areas: engineering and public works

- FEMA authorizes USACE through Mission Assignments/Funds.

- USACE is responsible for life cycle mission management including planning, funds management, and contract management.
PLANNING AND RESPONSE TEAMS (PRT)

- READINESS
  - Ice
  - Water
  - Emergency Power
  - Debris Removal
  - Critical Public Facilities
  - Temporary Housing
Video

Unit: U.S. Army Corps of Engineers

'ATC 052711' Run: 1:59

Produced PKG w/ Graphics

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RFO Mission

Provide response and recovery assistance to the citizens of Alabama through the execution of FEMA Mission Assignments in support of the National Response Framework.

RFO initiated operations on 3 May 11.
Alabama Tornado Tracks

Historic Tornado Outbreak
April 27, 2011

Tornadoes are numbered chronologically by time of touchdown beginning on the morning of April 27th.
* Tornadoes 2, 41, and 54 were ranked EF-2, EF-5, and EF-4 in MS.

EF-Rating
- EF-5
- EF-4
- EF-3
- EF-2
- EF-1
- EF-0
Debris

Mission:

- USACE tasked by FEMA for ROW removal of 61 localities (counties, towns, lakes, and cities).
- Tasked with waterway debris removal at 2 Lakes and Private Property Removal (PPDR) in 33 locations.
- 4.4M CY ROW debris removed.
- 2,500 homes that had PPDR with total of 770K CY removed.
Timeline

27 Apr - Tornadoes in AL
29 Apr - Debris Tech Asst MA
2 May - RFO MA
3 May - Debris DFA MA
4 May - Small C2 team to RFO
20 May - LGLs Deployed
21 May - PPDR MA
27 May - 1M CY Cleared
15 Sep - Corps Rec'd Demo MA
21 Sep - ROW & PPDR Complete
?? - DEMO end date unknown

Sig Events
ROW Hauling
Wet Debris Removal
PPDR
Lessons Learned

Issue:
- PPDR was impacted by “Operation Clean Sweep” (OCS) which was suppose to streamline/eliminate the need for individual property owner ROEs.

Resolution:
- Decision needs to be made early-on if OCS will be fully implemented or if ROEs will be used similar to normal PPDR.
Lessons Learned

Issue:
- Double-dipping on clean-up by insurance companies and PPDR.

Resolution:
- The final version of the ROE included an area for each owner to input their insurance number. Although, not bullet proof, it seemed to work well.
Lessons Learned

Issue:
- FEMA thought standard ROE form was approved and with the help of AL EMA, it went out to public w/o being blessed/approved by all parties. Subsequently, multiple forms were provided to the public and they were misinformed of the process.

Resolution:
- For each mission, all interested parties (FEMA, USACE, and State) need to agree upfront (a) on the ROE form to be used and (b) to stick with the approved ROE form. In addition, an SOP needs to be developed early on.
ADMS
(Automated Debris Management System)

- Paperless electronic data collection and management.
- Limited opportunities for data entry errors and no legibility issues.
- Satellite based GPS technology allows accurate automated debris pickup location.
- Near real time event status using web-based reporting and GIS tools.
- Timely reconciliation of invoices.
ADMS Example

Field Hardware

- Symbol MC70 with integrated GPS
- TSL Smart Card Reader
- Zebra RW420 Bluetooth Mobile Printer
Lessons Learned

Positives:

- Utilizing the grids, NEPA compliance was expedited.
- Once the process was resolved, the mission became a huge success.
- ADMS recordkeeping system.
- Local Government Liaisons (LGLs)
- Implementation of the Incident Command System (ICS) into our organization.
Before and After Aerial of Forest Lake
NOVA UAV

- Flight Deployment Time and Locations are FAA dependent.
- Resolution/accuracy (2-5 cm)
- Mosaics can be US Map Standard
- Hand Launched and Easily Recovered.
- Suitable for remote location flights
Questions / Comments