**FEMA Region VI - Denton, TX**
- RACC Activated LVL 1
- FORC Mike Byrne
- ESF #3 TL (1), ATL (1)
- Debris SMEs (3PAX)

**Southwest Division (SWD)**
- Dallas, TX
  - CDR: COL Paul Owen
  - EOC Activation (9 PAX)
  - MVC LNO: (1 PAX)
  - ESF #3 Advisor (1PAX)
  - EOC support (10 PAX)
  - HLG LNO (1PAX)
  - LOG Support (4 PAX)

**Mississippi Valley Division (MVD)**
- Vicksburg, MS
  - CDR: MG Michael Wehr
  - RCO: David Sills
  - EOC activation (8 PAX)
  - MVC-NFMC Activated (6 PAX)
  - Perf.: USACE Operations Center

**Mission Details:**
- $18.56M FEMA MA: 17
- $1.965M FCCE
- 298 PAX Deployed
- 95 PAX Engaged
- ECCV13 (2PAX)
- LRP Power PRT (5 PAX)
- ECCV03 (2PAX)

**Federal Staging Area:**
- Riverside
  - Bryan, TX
  - 24945 (12 PAX)
  - LRP Power PRT (5 PAX)
  - AGI Contractors (36 PAX)
  - ECCV13 (2PAX)
  - FEMA PSSM (1 PAX)

**Galveston District (SWG)**
- Galveston, TX
  - CDR: COL Lars Zettlemore
  - EM: Michael Delcastilho
  - EOC Activation (22 PAX)
  - EOC Support (2 PAX)
  - H&M SMEs (4 PAX)
  - PAO (2 PAX)
  - 9x Survey Techs (9 PAX)

** Houston: Ft. Bend County EOCs**
- IA SME (2 PAX)

**JFO - Austin, TX**
- ESF #1 Advisor (1 PAX)
- ESF #3 TL (1), ATL (4)
- Debris SME Lead (1 PAX)
- Debris Management (4 PAX)
- LRP Power PRT (2 PAX)
- WWB IA SMEs (2 PAX)
- LGL AO (1 PAX)
- Temp Housing SME (4 PAX)
- Temp Housing Management Cell (4 PAX)
- Commodities SME (3 PAX)
- PAO (2 PAX)
- 24945 MC (2 PAX)
- LRP Power PRT (5 PAX)
- NWW Power PRT (2 PAX)
- LRP Power PRT (2 PAX)

**Incident Support Base**
- Randolph AFB, Seguin, TX
  - 24945 (5 PAX)
  - LRP Power PRT (9 PAX)
  - NWW Power PRT (3 PAX)
  - AGI Contractors (96 PAX)
  - ECCV (2 PAX)
  - FEMA PSNM (1 PAX)
  - Debris Tech Assistance (19 PAX)

**JLFC/FWD – Hempstead, TX**
- DCG-S: BG Mark Toy
- Mission Support Staff (7 PAX)
- ECCV04 (2PAX)

**Corpus Christi Area Office**
- Corpus Christi, TX
  - IA SME (1 PAX)

**Addicks & Barker Dams**
- Houston ARNG Armory, TX
  - Monitoring (53 PAX)
  - ECCV03 (2 PAX)
  - ECCV02 (2PAX)
  - Inundation mapping

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**LINES OF EFFORT:**

1. **PUBLIC AFFAIRS AND STRATEGIC OUTREACH**
   - USACE continues to generate positive-neutral sentiments, but downstream residents are beginning to ask for water receding timelines and when they might be able to return to their homes.
   - Debris SME Lead, Mr. Eddie Leblanc, conducted an on-camera Interview with HLN at the JFO.

2. **ADDICKS AND BARKER RESERVOIRS**
   - Performing as designed, retained over 125 Billion gallons of water has been retained since 25 AUG.
   - 24-Hour on-site monitoring and assessment (53 PAX), ECCV03 & ECCV02 (4PAX)
   - Addicks - Current level: 104.65’ as of 0400 EDT 06SEP17 (flanking has ceased)
   - Barker – Current level: 97.20’ as of 0400 EDT 06SEP17 (water out of homes upstream)
   - Controlled releases from the dams continue to assure the safest possible functioning of the dams.

3. **NAVIGATION**
   - As of 05 2030 SEP17: The ports of Texas City, Galveston, and Houston are open with no restrictions. All other ports are open with restrictions.
   - 20 survey vessels are surveying the GIWW with an expected completion date of 06 SEP.
   - Surveys were completed for the Neches entrance channel to Beaumont on 05 SEP. Survey data under review to determine draft restrictions and dredging requirements.
   - USACE currently has 6 dredges (USACE contracted) available, actively dredging at Galveston, Freeport, Texas City Aransas Bay and Corpus Christi.

4. **TEMPORARY HOUSING**
   - 2x FEMA Mission Assignments ($1.48M)
   - Temporary Housing SME deployed to JFO coordinating with USACE and FEMA HQ on USACE Housing Support Plan.
   - FEMA is planning for installation of 4,000 MHUs and 9K-10K travel trailers, and construction of another 5,000 homes.
   - USACE will employ a mission manager at each FEMA Branch Office with a staff of 40 Technical Monitors, 6 Contracting Officer Representatives and 116 QA Representatives.
   - Work on site layouts to begin shortly.

5. **TEMPORARY EMERGENCY POWER**
   - $8.2M FEMA Mission Assignment (4MA)
   - 24945 (19 PAX), LRP Power PRT (17 PAX), NWW PRT (11 PA), AGI (126 PAX), 2x ECCV (4 PAX) deployed to response nodes.
   - 67 Pre-Install Inspections Requested, 66 Pre-Install Inspections complete, 44 Generator Installs Complete, 9 Generator De-Installs complete.
   - Total of 190 Generators from FEMA /DLA in the area of operations.
   - Local public utilities coming back online, demobilization of temporary power assets expected; TTEP implementing demobilization plan based on current and projected power restoration estimations.

6. **DEBRIS MANAGEMENT**
   - 2x FEMA Mission Assignments ($4.15M)
   - 25 PAX and a Debris Management Team are currently deployed providing Debris Technical Support.
   - Work on site layouts to begin shortly.
   - Debris SMEs to coordinate with FEMA IMATs, state and local government on Debris Management strategies.

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**JFO - Austin, TX**
- ESF #1 Advisor (1 PAX)
- ESF #3 TL (1), ATL (4)
- Debris SME Lead (1 PAX)
- Debris Management (4 PAX)
- WWB IA SMEs (2 PAX)
- LGL AO (1 PAX)
- Temp Housing SME (4 PAX)
- Temp Housing Management Cell (4 PAX)
- Commodities SME (3 PAX)
- PAO (2 PAX)
- 24945 MC (2 PAX)
- LRP Power PRT (5 PAX)
- NWW Power PRT (2 PAX)

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As of 060400SEP17
Tropical Storm Harvey - Houston Trafficability Inundation Map

MAP NOTES: NWS river stage forecast for 3 September combined with 2 September afternoon USACE reservoir release schedule.

Estimated Depth
- 0 m - 0.05 m
- 0.05 m - 0.3 m
- 0.3 m - 1.0 m
- 1.0 m - 2.0 m
- 2.0 m - 3.0 m
- 3.0m+

Predicted Flood Depth

U.S. Army Corps of Engineers
Kansas City District
USNG Grid Zone 15

Tropical Storm Harvey
1400 hrs 3 September 2017

Barker Dam Outlet Works
Addicks Dam Outlet Works
Hurricane Harvey – Status of Affected Corps Reservoirs

**Addicks**
- Current Elev: 107.06'
- Top of FP: 108'
- Release: 7,000 cfs
- Status: Falling

**Barker**
- Current Elev: 99.28'
- Top of FP: 104'
- Release: 6,300 cfs
- Status: Falling

**Somerville Lake**
- Current Elev: 254.92'
- Top of FP: 258'
- Release: 0 cfs
- Status: Rising

**B.A. Steinhagen (Town Bluff)**
- Current Elev: 82.12'
- Top of FP: 85'
- Release: 41,000 cfs
- Status: Falling

**Sam Rayburn**
- Current Elev: 167.27'
- Top of FP: 173'
- Release: 8,600 cfs
- Status: Rising

Percentage of Total Capacity Used:
- 0 to 25%
- 26% to 76%
- 76% to 100%
- Over 100%

As of 030615SEP 17
Hurricane Harvey Power COP

Mission Details:
- $8.2M FEMA (1 Post-Dec MA)
- Type II response posture
- C Company: 17 PAX Deployed
- HHC: 3 PAX Deployed

State EOC
Austin, TX
- 249th: 2 SM
- LRP Power PRT: 3 CIV
- NWW: 2 CIV

Incident Support Base (ISB)
Randolph AFB, TX
- 249th: 5 SM
- LRP Power PRT: 9 CIV
- NWW: 5 CIV
- ACI Contractors: 90 CIV
- ECCV: 2 CIV
- FEMA PSSM: 1 CIV

Forward Staging Area-Riverside
Bryan, TX
- LRP: 5 CIV
- 249th: 12 SM
- ACI: 35 CIV
- ECCV: 13 (2PAX)
- FEMA PSSM: 1 CIV

Galveston District (SWG)
Galveston, TX
- LRP Power PRT: 1 CIV

TFTEP
Pittsburgh, PA
- 249th: 3 SM
- FEMA LNO: 1 CIV
- TFTEP: 5 CIV

HQSACE
Washington D.C.

NRCC
Washington D.C.

MVM
Memphis, TN
- Power PRT on ALERT

Resources
PRT+SME               LRP (III+)               18 PAX
PRT                      NWW (III)                7 PAX
249th                  C Co (III)              20 PAX
ACI Contractor          MP (III)              125 PAX
Generators              FEMA+DLA              134 gens
ECCV 9 & 13             DTOS                  4 PAX

Mission Data
Assessments Requested  59
Preinstall Inspections Complete*  59
Assessments Cancelled & Closed/ Not Required  16
Installs In Progress  0
Installs Complete    38
Generator Deinstalls  1

Task Force Temporary Emergency Power

Current Operations
- MA total $8.2M through 16 Sep 17
- NWW PRT personnel arrived at ISB
- 56 generators moving from DC Frederick to FSA Riverside; 46 of 62 gens moved from ISB to FSA
- ACI increased to support ISB and FSA
- 249th positioned to support ISB and FSA
- 1 PAX arrived from 249th Ft. Belvoir to FSA Riverside

Future Operations 24-48 Hours
- Fueling, maintenance, and repair of installed generators
- Action Officer anticipating Houston’s power requirements
- Final 4 PAX from NWW PRT arrive to Randolph ISB (ETA 021800SEP17 CDT)
- NWW & LRP complete transition to ISB and FSA
- SAS Power PRT on Alert status

Anticipated Operations
- TBD – Start of new assessments post flood
- TBD – Develop transition plan

Concerns
- Zero generator requests for Houston

LEGEND
- MA Received – Occupied
- MA on ALERT
- MA Cancelled
- Other Key Nodes
- ISB Occupied

POC: SFC Charles Powell | Charles.powell14.mil@mail.mil | (571) 230-0137

As of 030635SEP17
Continued emphasis on Debris Management support to Texas continues to be a top planning priority at the FEMA nodes. Local city and state officials have begun movement developing contracts and planning their operations.

- SMEs: Eddie LeBlanc and Bo Ansley
- Debris SME/Overwatch MA for $4,050,000
- Verbal MA for $107,500 – Debris Management Cell
- Debris SME Lead, Debris SME, and 6 Debris Team Members at the JFO; 18 additional team members en route
- City of Houston has a contract in place and plans to move forward with contractor, SMEs will continue to advise and assist with plans where necessary
- Will provide Debris Management guidance – individuals comprising PRT are SMEs in-training and will be truly valuable in assisting at the State EOC
- Canvassed area around Addicks and Barker in order to document flooding limits and received request to conduct inspections in Richmond and Rosenberg in the vicinity of the Brazos River
- MVK debris management team will arrive at the JFO in the next 24 hours.

POC: USACE Operations Center ce-uoc@usace.army.mil (202) 761-1001
Continued emphasis on providing temporary housing support to Texas continues to be a top planning priority at the FEMA nodes. Still developing is the pilot construction management cell.

FEMA MA for Housing - Technical Monitors/CORs/SMS. All have been identified and will be on site Sunday, 03 SEP 2017. The six person Management Cell for Group Site Design will arrive by 06 SEP 17.

HAUL AND INSTALL: USACE will employ a mission manager at each FEMA Branch Office with a staff of 38 Contracting Officer Representatives, Technical Monitors, and QA Supervisors and Representatives. Current estimate to support the haul and install mission is ~120 USACE personnel. The planning consideration being used for the haul and install mission is installation of 4,000 MHUs and 9,000-10,000 Travel Trailers. The estimate to complete this mission is 5 months.

REPAIR/PERMANENT HOUSING CONSTRUCTION: USACE supports the mission to repair 5,000 homes, and will employ a mission manager with area engineers embedded in all three FEMA Branch Offices. This mission requires over 300 USACE employees to include design and construction teams and includes employment of a USACE contract(s).

Three PRTs have been placed on alert for three possible missions:
- SPL for construction management pilot support
- SAJ for Critical Public Facility support
- NAN for Site Design and Construction Support

Three SMEs have also been identified to provide support:
- Overall Temp Housing support to include pilot Construction Management Support: Wyatt Kmen (ARRIVED)
- Critical Public Facility support: Tim Brown (alerted – ON STANDBY)
- Site Design and Construction: Jason Ritter (alerted – ON STANDBY)

As of 030300AUG17
FEMA Region VI
Denton, TX
- RRCC Activated
- Housing SME – Wyatt Kmen

Mission Details:
- $1.215M FEMA MA
- 1 PAX Deployed
- Additional PAX to arrive 03 SEP 17

Three SMEs have also been identified to provide support:
- Overall Temp Housing support to include pilot Construction Management Support: Wyatt Kmen (ARRIVED)
- Critical Public Facility support: Tim Brown (alerted – ON STANDBY)
- Site Design and Construction: Jason Ritter (alerted – ON STANDBY)
Hurricane Harvey Navigation Restoration

**Port Status**

- OPEN
- OPEN w/ RESTRICTIONS
- CLOSED

**DREDGE**

- CONTRACTED
- AVAILABLE

**Survey Vessel: Office/Affiliation**

- Galveston District Office
- Corpus Christi Resident Office
- Galveston District – Bayland Marine
- New Orleans District – USACE
- Port Arthur Resident Office
- Rio Grande Valley Office
- Contractor
- NOAA

**USACE Actions**

- Port Status based in part upon USCG 01 2100 SEP 2017 report
- SWG is managing work of 23 hydro survey vessels (shown on map, color coded by office/affiliation)
- Channel centerline and quarters (for depth) and side scan (for debris/obstructions) surveys are priority, more detailed surveys to follow
- USACE 104’ Debris Vessel MV Snell (Willington District asset in area when Harvey hit) working Matagorda Bay, awaiting flows to subside to move to other work areas.
- GIWW 60% surveyed, northern portion is in progress as conditions will allow
- Severe currents slowing surveying and assessment of Sabine–Neches Waterway.
- Decision on call out USACE Hopper Dredge Wheeler pending results of Sabine–Neches Waterway.

**Transported**

- USACE Hopper Dredge Wheeler – At port New Orleans, LA Ready to Respond
- USACE Hopper Dredge McFarland – At port Philadelphia, PA Ready to Respond

**Galveston OPEN restricted < 37’**

As of 012100SEP2017

**Beaumont OPEN restricted < 30’**

As of 012100SEP2017

**Orange OPEN restricted < 30’**

As of 012100SEP2017

**Arthur OPEN restricted < 30’**

As of 012100SEP2017

**Houston OPEN restricted < 37’**

As of 012100SEP2017

**Texas City OPEN restricted < 37’**

As of 012100SEP2017

**Galveston OPEN restricted < 37’**

As of 012100SEP2017

**Freepoort OPEN restricted < 33’**

As of 012100SEP2017

**Matagorda CLOSED**

As of 012100SEP2017

**Victoria CLOSED**

As of 012100SEP2017

**Corpus Christi OPEN restricted < 43’**

As of 012100SEP2017

**Isabel OPEN**

As of 012100SEP2017

**Brownsville OPEN**

As of 012100SEP2017

**Lake Charles OPEN restricted < 37’**

As of 012100SEP2017

POC: USACE Operations Center, ce-uoc@usace.army.mil (202) 761-1001
New Orleans Pump Stations Current Status
As of 1630, 31 August 2017

Orleans Metro Polder Status

DPS 12
1 pump
100% capacity (1,000/1,000 cfs)

DPS 7 (Orleans Ave)
5 total pumps
100% capacity (2,690/2,690 cfs)

DPS 25 (I-10 Underpass)
4 total pumps
100% capacity (850/850 cfs)

DPS 6 (17th Street)
15 total pumps
75% capacity (7,260/9,580 cfs)
4 pumps down

DPS 23 (Monticello)
3 total pumps
100% capacity (99/99 cfs)

DPS 24 (Pritchard)
3 total pumps
100% capacity (253/253 cfs)

DPS 2 (N. Broad Street)
6 total pumps
100% capacity (3,190/3,190 cfs)

DPS 7 (Orleans Ave)
5 total pumps
100% capacity (2,690/2,690 cfs)

DPS 3 (London Ave)
6 total pumps
100% capacity (3,720/3,720 cfs)

DPS 19 (W. Industrial Canal)
5 total pumps
100% capacity (3,920/3,920 cfs)

DPS 3 (London Ave)
9 total pumps
100% capacity (4,260/4,260 cfs)

DPS 17 (Station D)
2 total pumps
100% capacity (300/300 cfs)

Sources:
• City of New Orleans EOC, Mayor’s Staff
• Sewerage and Water Board Hurricane Spa

POC: Cynthia Constancio Cynthia.d.Constancio@usace.army.mil
HURRICANE IRMA

BLUF: Hurricane Irma is a westward moving storm system gaining in strength and projected to impact the east coast of the CONUS within the week. Exact impact locations and extents are still unable to be accurately projected at this time.

SITUATION: Hurricane Irma is located about 1,030 miles east of the Leeward Islands, moving just south of due west at about 14 mph with maximum sustained winds of 110 mph. Fluctuations in intensity will continue over the next few days as Irma is expected to reach the Lesser Antilles between 05 and 06 SEP. Upon landfall, Irma could cause dangerous wind, storm surge, and rainfall impacts.

DECISION POINTS:
1. As IRMA continues its approach towards the Lesser Antilles we assess requirements for response efforts to Puerto Rico. Irma is expected to be a major hurricane when it approaches the Lesser Antilles early next week. By 03 SEP we should have projected impacts to make a decision on committing assets to response ICW FEMA.
2. By 05 or 06 SEP, spaghetti models will offer greater fidelity on the path of Irma and potential impacts to CONUS. IRMA could (1) continue its path West into the gulf, (2) turn north toward the Eastern seaboard, or (3) get pushed back into the Atlantic where cooler waters would diminish its intensity. At this point, we can make assessments of potential impacts and begin to make decisions on committing assets to response ICW FEMA.

STRATEGIC PLANNING:
• FEMA formed an IRMA planning team to identify resource needs, availability, and concerns.
• FEMA’s top 4 priorities are: Mass Care, Power/Water Restoration, Search/Rescue, and Debris Management.
• FEMA has a contract in place to move 70 generators from Puerto Rico to the US Virgin Islands if needed.
• FEMA Mission Assignment (MA) for two Power Teams scheduled to deploy to Puerto Rico and Virgin Islands.
• USACE participated in waterways and ports openings assessment at FEMA, coordinating with SAD.
• SAD has prepositioned survey boat in Puerto Rico, prepared to deploy.
• San Juan Harbor recently completed a dredging mission and will maintain a dredge in a protected position.

EARLY CONCERNS:
• Diesel Supply to maintain power generation until grid is restored.
• ATL/TL cadre may be stretched depending on severity of impacts.
• Housing PRTs especially may be stretched based on the Hurricane Harvey Housing response.

DIVISIONS:
SAD:
• SAD and SAJ EOCS activated to Level II as of 01 SEP. Ongoing coordination w/ FEMA Region II & ESF-3.
• SAD published a WARNO for Irma.
• SAJ has identified ADVON to deploy to PR/VI lead by the SAD Deputy Commander.
• SAS Power PRT alerted to support SAD AO

MVD:
• MVD is focused on support to SWD, and planning preparation for Hurricane IRMA and are in coordination with FEMA VI and FEMA LNO on future requirements.
• MVM Power PRT alerted to support the US Virgin Islands and Puerto Rico.

NAD:
• NAD has not activated any EOCS but remain in support of Harvey operations and are standing by for Irma.
• NAD is participating in a FEMA Region coordination call to discuss the weekend strategy.