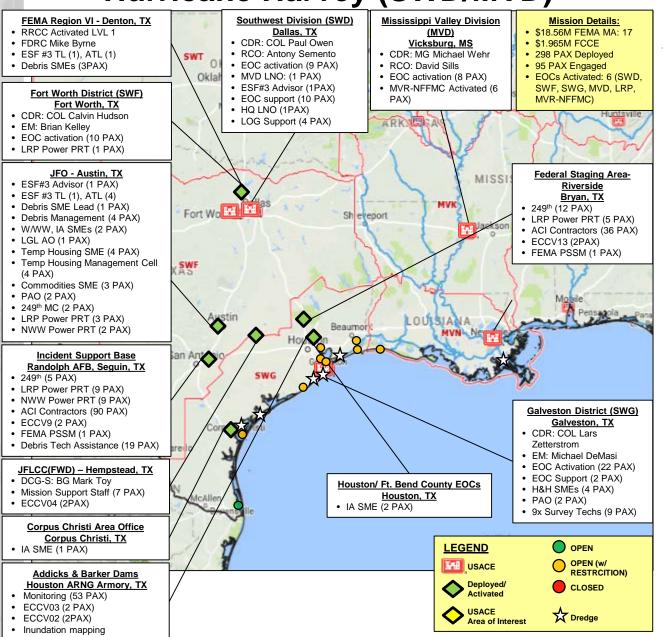
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Hurricane Harvey (SWD/MVD)



BLUF: USACE has 3 Divisions and 4 Districts continuing to support federal response to impacted areas from Hurricane Harvey with 298 USACE personnel deployed to key response nodes and 95 C2 personnel manning key command nodes. USACE has received 17 FEMA MAs (\$18,56M).

LINES OF EFFORT:

1. PUBLIC AFFAIRS AND STRATEGIC OUTREACH

- USACE continues to garner 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: 104.56' 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, Isabel and Brownsville 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, 5 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 (MA)
- 249th EN (19 PAX), LRP Power PRT (17 PAX), NWW PRT (11 PAX), ACI (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; TFTEP 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
- Canvassed area around Barker and Addicks for flood limits and received tasking to conduct inspections.
- USACE Debris SMEs to coordinate with FEMA IMATs, state and local government on Debris Management **US Army Corps** strategies

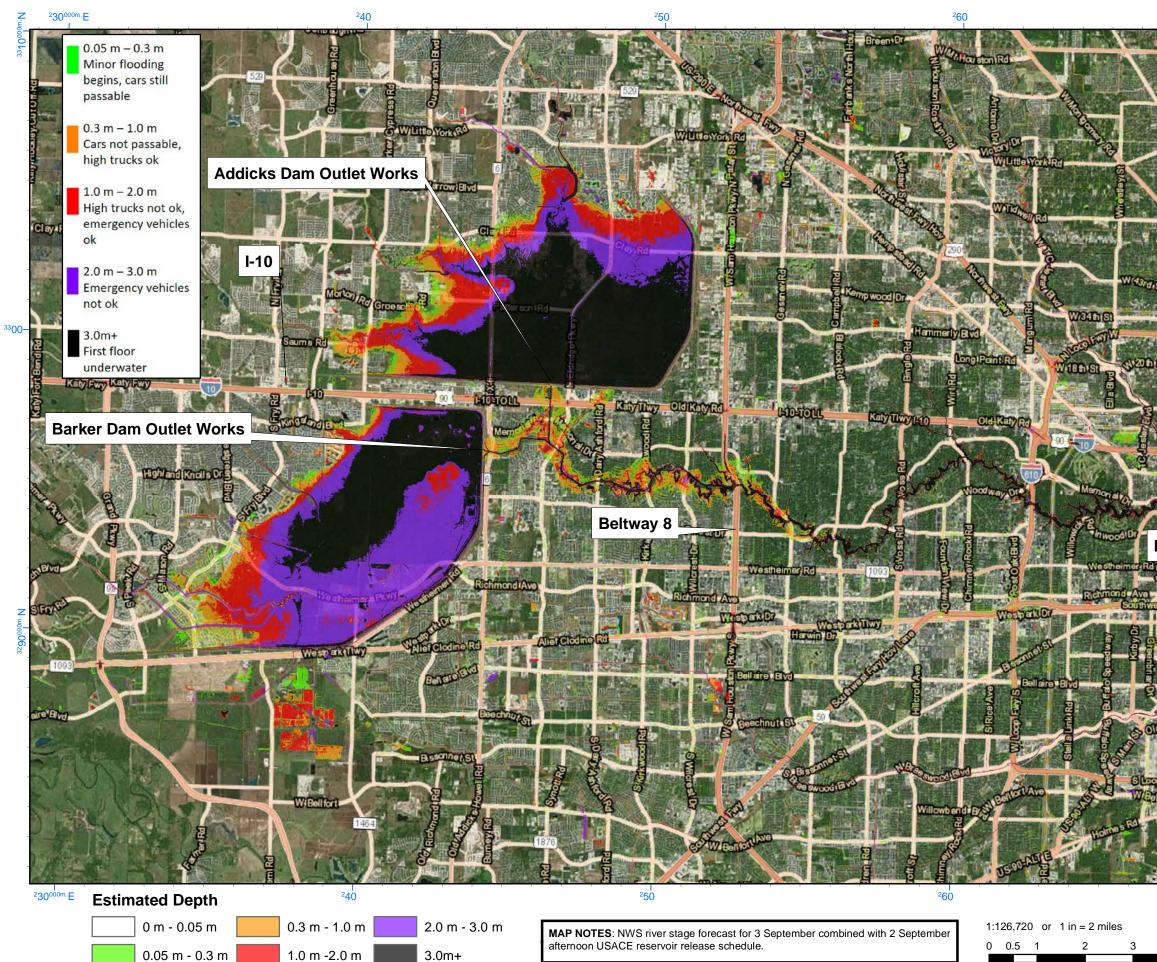




POC: USACE Operations Center ce-uoc@usace.army.mil (202) 761-1001



Tropical Storm Harvey - Houston Trafficability Inundation Map



1400 hrs 3 September 2017 Predicted Flood Depth

²70^{000m.}E

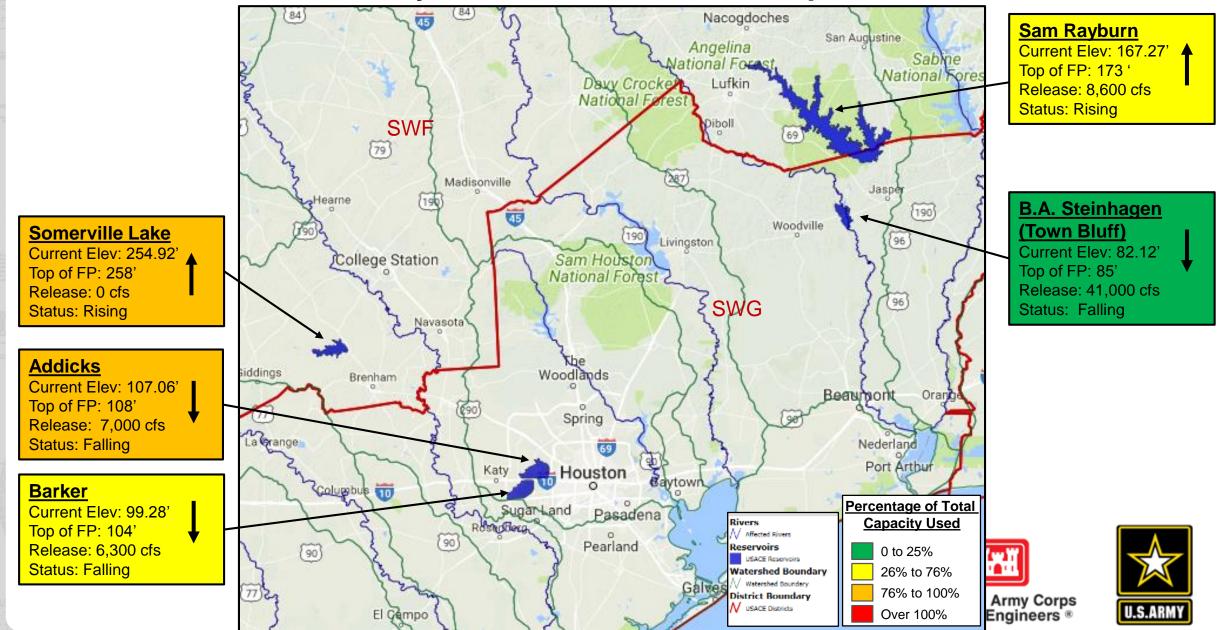
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²70^{000m}.E





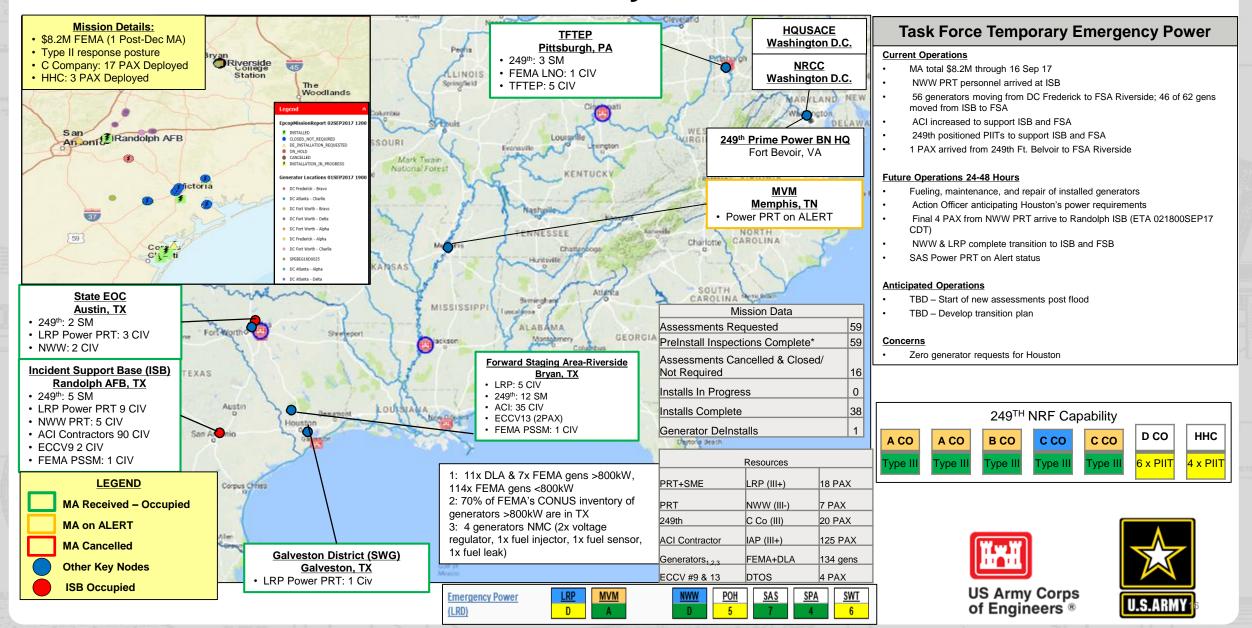
U.S. Army Corps of Engineers Kansas City District Tropical Storm Harvey USNG Grid Zone 15



Hurricane Harvey – Status of Affected Corps Reservoirs

POC: Julia Fritz, Julia.a.fritz@usace.army.mil: 202-761-8203

Hurricane Harvey Power COP



Hurricane Harvey Debris Management COP

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/Oversight MA for \$4,050,000

LEGEND

MA on ALERT

MA Cancelled

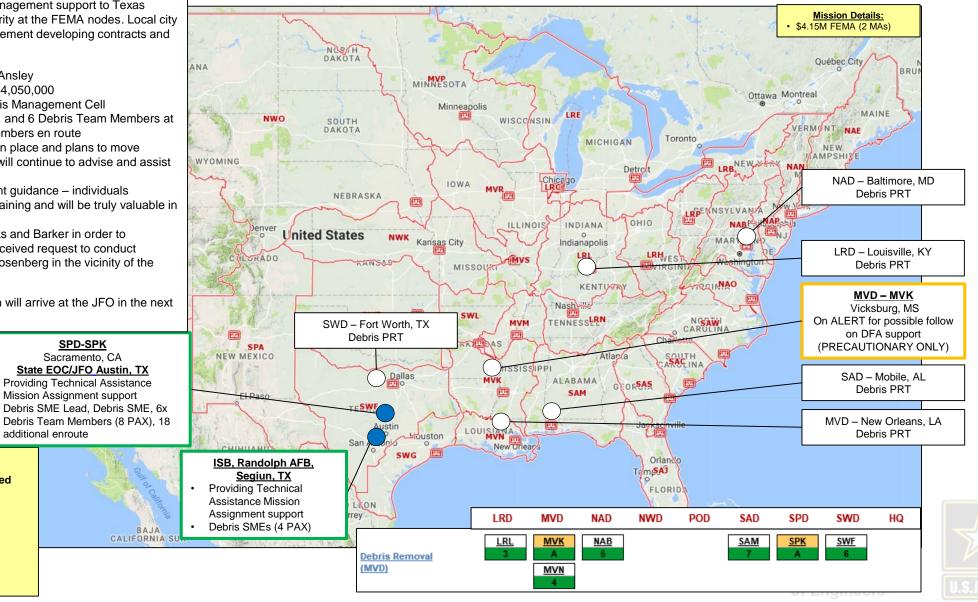
Other Key Nodes

PRT H/S Location

ISB Occupied

MA Received – Occupied

- 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.



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Hurricane Harvey Temporary Housing COP

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 SEPT 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).

San\Di

BAJ

CALIFOR

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)

Denver

LURADO

SPA

El Paso

CHIHUAHUA

RRCC Activated

ALOA DURANGO

NEW MEXICO

12

ARIZONA

Tucson

SONORA

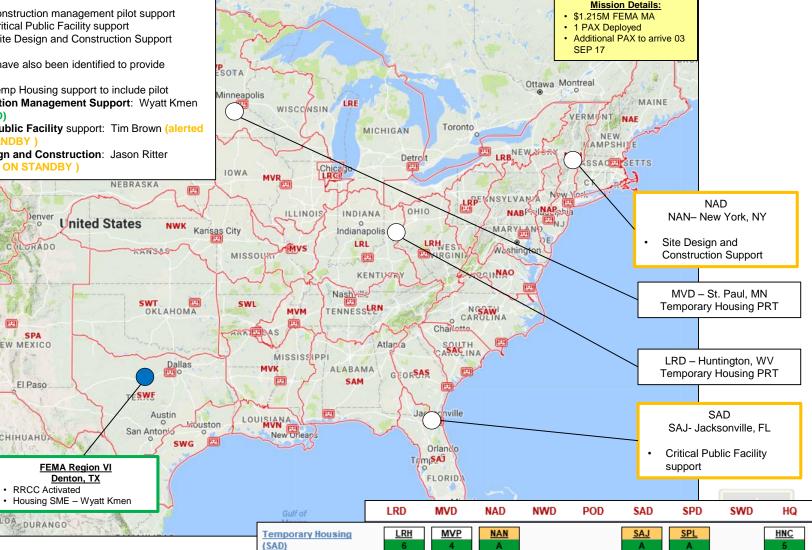
Phoenix

SPD

SPL-Los Angeles, CA

management pilot support

Construction





POC: USACE Operations Center ce-uoc@usace.army.mil (202) 761-1001

LEGEND

MA on ALERT

MA Cancelled

Other Key Nodes

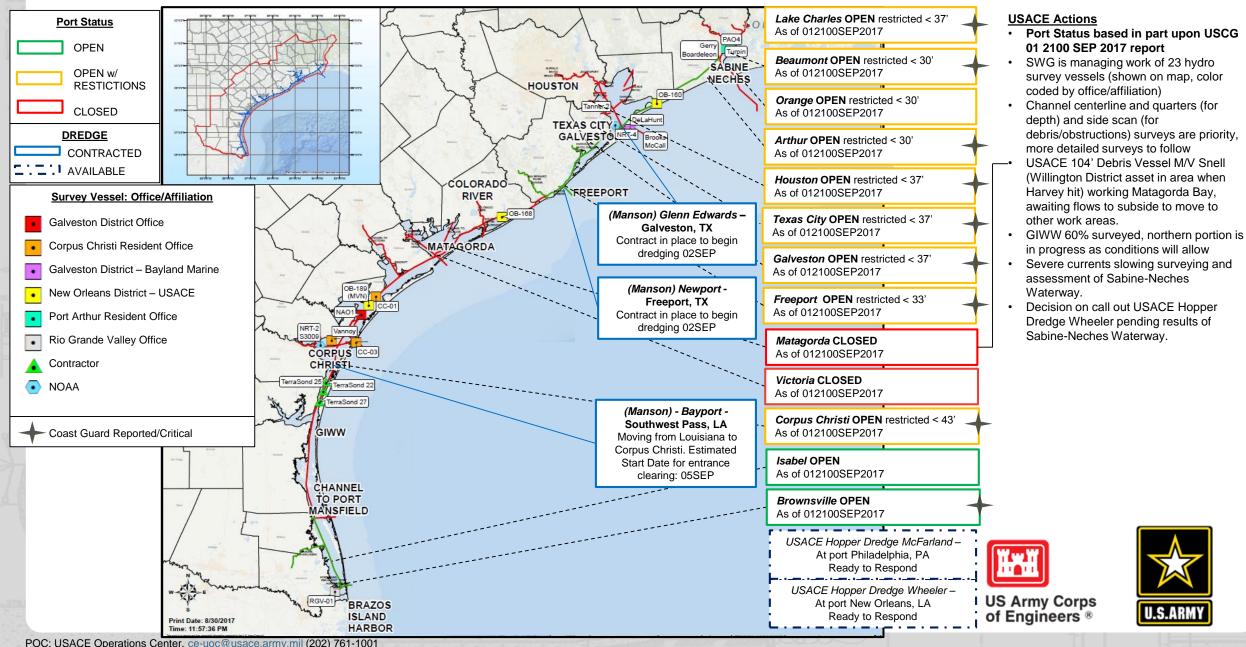
ISB Occupied **PRT H/S Location**

MA Received – Occupied

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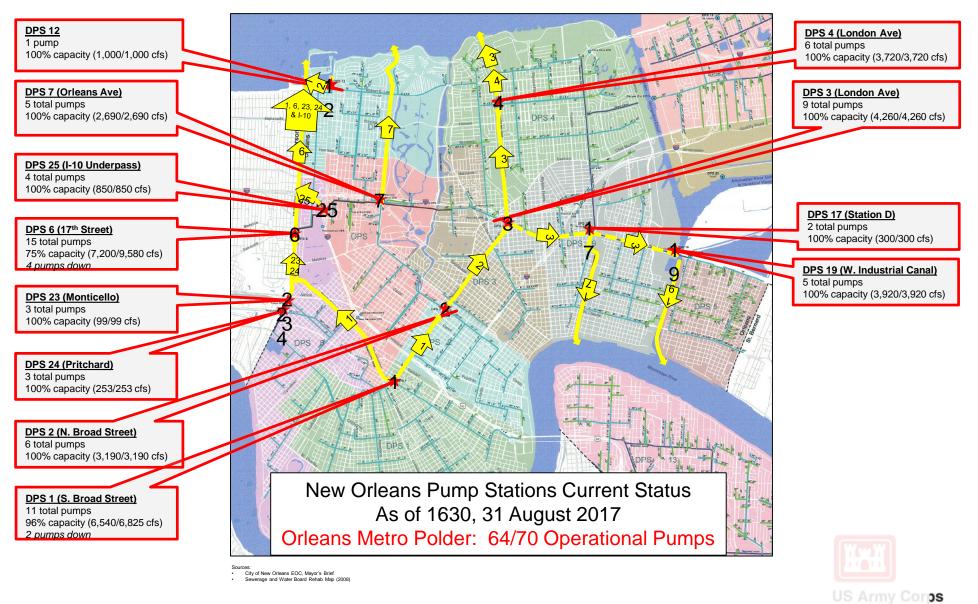
Hurricane Harvey Navigation Restoration



U.S.ARMY

of Engineers®

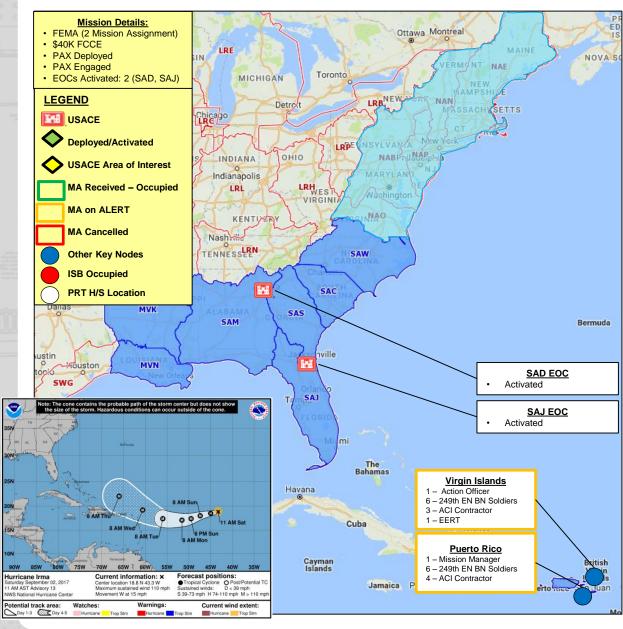
Orleans Metro Polder Status



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

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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.

<u>SITUATION</u>: 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:

- 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.
- 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 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.