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HURRICANE HARVEY MANAGEMENT REPORT

Information contained in this report reflects HQ and regional reporting from the most recently completed operational period as well as other reports provided by HQ, regional and interagency sources. The Senior Leadership Briefing and DHS Component Actions Reports are attached.

National Incident Management Objectives

Objective 1: Ensure that health and safety of the EPA response is considered at all times.

Objective 2: Establish an incident management structure and processes employing the Incident Command System to enable effective overall management of the event with deployment of resources (staff and equipment) in a rapid, aggressive and well-coordinated manner.

Objective 3: Ensure prompt review and processing of Fuel Waiver requests.

Objective 4: Prepare for and provide Rapid Assessment of industrial facilities as requested by the States or under EPA's statutory program responsibilities for CERCLA Superfund, RMP and FRP facilities. Working with agencies in affected States, contact industrial sources within the impacted areas to determine their operational status and determine what support can be provided with the monitoring of the start-up of industrial sources along the coastal areas.

Objective 5: Prepare for and provide Rapid Assessment & Technical Assistance Drinking Water & Wastewater facilities as requested by the State or local government. EPA will support State agencies in contacting drinking water and waste water systems.

Objective 6: Prepare a Sustained Response Plan that outlines the resource and equipment needs for a long duration response.

Objective 7: Activate the Agency's Crisis Communication Plan to insure effective and efficient coordination of all incident communications.

Objective 8: Encourage a collaborative federalism approach, where national state and local governments interact cooperatively and collectively to solve common problems.

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Executive Summary

- Texas Governor Greg Abbott is traveling to Beaumont today, September 9th. He will be accompanied by EPA Senior Advisor to the Administrator Kell Kelly.
- Governor Abbott sent a letter to Administrator Pruitt encouraging support for the Texas Water Development Board's request flexibility in allowances and procedural changes to the State Revolving Loan Fund program so funds can be used to address immediate recovery and future resiliency efforts is acceptable. EPA believes most of the request is approvable and will respond with a letter following the scheduled meeting on Monday, September 11th.
- Office of Emergency Management Director Reggie Cheatham and OMB Budget Manager Jodi Beringer, will visit the Dallas Emergency Operations Center and ASPECT aircraft during scheduled maintenance in Addison. They will travel to Houston on Monday, September 11th to tour EPA's command post, Houston laboratory, and the San Jacinto Superfund site.
- Aerial application for vector control is scheduled to begin the night of September 9th.
- EPA has recommended the State consider public notification and performing particulate monitoring (PM10) in areas of temporary debris management sites, where practicable, to capture PM10 associated with burning activities.
- On September 8th, EPA released data generated from the sampling of flood water and aerial surveillance data during the Arkema fires. No detections were above levels of concern outside the 1.5-mile evacuation area. Instrumentation on the Airborne Spectral Photometric Environmental Collection Technology (ASPECT) is capable of measuring 78 different chemicals, including peroxides.
- EPA has received 17 notifications of force majeure claims from companies covering Louisiana/Texas gulf facilities that impending storms may cause a delay or impediment to performance in complying with provisions of their Consent Decrees.
- Local interest (San Jacinto River Waste Pits Community Awareness Committee and Galveston Bay Foundation) regarding the status and repairs at the San Jacinto River Waste Pits Superfund site continues to be high. EPA will conduct confirmation sampling at the site on Monday, September 11th. Additionally, TCEQ has invited EPA and Harris County Pollution Control Agency to participate in a Hurricane Harvey Update for environmental advocacy organizations next Tuesday, September 12th in Austin, Texas.
- EPA expects to receive an amended mission assignment today providing about $1.5 million additional funding to continue response operations. FEMA has announced plans to fund mission assignments in five day increments.
- EPA continues to coordinate with the Texas Department of State Health Services regarding the need for residential well testing. Based on conversations at the JFO, a state request for a mission assignment for this work appears unlikely.

Region 6 Significant Activities:

The Region 6 REOC is currently activated and working under a limited Emergency Support Function (ESF) 10 FEMA Mission Assignment (MA). In addition, Region 6 has received an MA to assist TX with drinking water, wastewater, and hazmat recovery operations. Mission Assignments, for over $8.6 million, added 184 EPA and Coast guard (CG) personnel to the ESF-10 Harvey response in Corpus Christi, Houston, and surrounding impacted areas. An additional MA for $20,000 has been issued to deploy EPA employees to various locations which include but are not limited to the TX EOC and the FEMA RRCC to support response operations. An additional $255,000 was added to MA 4332DR-TX-01 bringing the total to $275,000 for providing an EPA representative at the FEMA RRCC and two EPA representatives to the TX EOC.

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Mission Assignment Number	Funding Amount	Description of Assignment
MA4332DRTX3	$8,592,000	R6 Field Ops incl. assessing drinking & waste water infrastructure, implementation of Response Manager tracking system, response to hazardous substances & oil discharges or releases.
MA4332DRTX1	$275,000	Deployment of EPA to various locations, including but not limited to TX EOC and the FEMA RRCC to support response operations.
Total Funds	**$8,867,000**	

Number of R6 Personnel Involved**:**

Personnel	EPA R6 Dallas	FEMA Denton	Texas JFO Austin	TX SOC Austin	TCEQ Austin	Houston	Corpus Christi	Beaumont/ Port Arthur	Totals
R6	51	1	3	3	0	56	12	6	149
START	8	0	0	1	1	12	9	5	36
ERRS	0	0	0	0	0	16	8	3	27
Other Contractor	1	0	0	0	0	0	0	0	7
TOTAL	60	1	3	4	1	84	29	14	219

Container Recovery Operations:

Date	Containers				Total
	Drums (55gal)	Small Containers (<55gal)	Large Containers (>55gal)	Cylinders	
9/8/2017	4	0	1	5	10
Total to Date	57	31	8	17	113

Corpus Christi, TX:

Three Hazard Evaluation (HE) Teams comprised of EPA and TCEQ personnel conducted assessments in the Rockport area. HE Teams traveled by boat to the Voestalpine facility in San Patricio County and assessed the drainage area behind the Voestalpine unloading dock. An HE Team assessed the Copano Bay area for orphan containers.

An inventory of all 113 recovered items was completed on the staging pad in preparation for field screening.

Houston, TX:

Four EPA Region 6 air quality technical specialists deployed to Houston on September 8. Two air quality technical specialists teamed up with TCEQ investigators and made entry to the Valero Houston Refinery. They viewed Tank 3 with the failed roof and Tank 228 with the pinhole leak in the drain line. Valero estimates that Tank 228 will be emptied and degassed by next week. Tank 3 is the more problematic of the tanks as liquid has collected on the crumpled roof. The tank is still unsafe to empty and inspect, there is no estimate yet as to when that tank will be emptied and inspected. EPA and TCEQ recommended that Valero conduct perimeter monitoring in the interim.

The Air Recon Team comprised of EPA and USCG personnel conducted an aerial overflight of Bastrop, Lee and Fayette Counties, and the Brazos River in Fort Bend County with nothing significant to report. They did identify three sunken sailing vessels with no evidence of a discharge near Galveston Island.

Twenty-four HE Teams conducted and completed assessments in Brazoria, Matagorda, Harris, and Galveston Counties. There were no emergent or substantial risks posed by identified sites.

HE Assessment Status: 100% complete in Liberty, Austin, Waller, Chambers, Montgomery, Fort Bend, Galveston, Bastrop, Lee, Fayette, Colorado and Walker Counties; 90% complete in Brazoria County; 80% complete in Wharton County; 60% complete in Harris County; and 30% complete in Matagorda County.

Beaumont, TX:

Eight HE Teams conducted assessments in Pleasure Island, China, Nome, Beaumont, the Neches River, Sour Lake, the Sabine River and Taylor Bayou. No emergent or substantial risks were posed from identified sites.

The Discharge Assessment Team reported 125 gallons of diesel fuel was discharged at the maintenance facility outside of the Beaumont Federal Prison. The source was secured and the spill removed by an Oil Spill Removal Organization.

A Hazard Evaluation Team reported a natural gas leak in Vidor, Texas. The responsible party was identified as PRO Gas. EPA oversaw the securing of the leak by a PRO Gas technician.

A Drinking Water Technical Support Team was deployed to provide technical support to City of Beaumont Water System.

EPA Headquarters Significant Activities:
The HQ EOC is activated to Level 1 in support of the Region 6 response to Harvey. The HQ EOC is coordinating with Region 6 and other Federal agencies. The HQ EOC has deployed personnel to the FEMA NRCC to staff the ESF #10 desk. EPA Senior Management that comprise the Policy Coordinating Committee (PCC) developed and issued senior management objectives that form the basis of field strategy and tactics in response to Harvey.

Headquarters Mission Assignments:

Mission Assignment Number	Funding Amount	Description of Assignment
MA4332DRTX1	$10,000	FEMA HQ ESF-10 Desk Support
4332DRTXEPA02	$40,000	FEMA HQ ESF-10 Desk Support
Total Funds	**$50, 000**	

Number of HQ Personnel Involved in the EOC:

Personnel	AO	OAR	OCFO	OCSPP	OECA	OEI	OGC	OLEM	OP	ORD	OW	R3	ATSDR	Totals
Employees	2	3	0	0	1	1	0	7	0	0	1	0	2	17
Contractors	0	0	0	0	0	0	0	2	0	0	0	0	0	2
TOTAL	2	3	0	0	1	1	0	9	0	0	1	0	2	19

National Incident Management Team (N-IMAT):
EPA activated and deployed the N-IMAT (highly skilled response personnel from Regions 3, 4, and 5) to advise and assist R6 with response activities. N-IMAT is now located in Corpus Christi. The N-IMAT completed its assignment to establish an initial structure to respond to Hurricane Harvey. Eleven key leadership positions were established and are now staffed by other staff allowing initial N-IMAT staff to demobilize. N-IMAT personnel will fully demobilize from Corpus Christi on September 11th. R6 and HQ have signed a formal letter to deactivate the N-IMAT from their response to Hurricane Harvey.

Criminal Investigation Division (CID):
EPA's Criminal Investigation Division (CID) Quick Reaction Team (QRT), now comprised of 22 EPA-CID Special Agents, is supporting the Houston Police Department in the area of Buffalo Bayou under ESF 13. QRT joins several hundred federal law enforcement officers from multiple departments and agencies in TX supporting ESF-13 missions. Several QRTs under ESF 13 are being re-routed and re-tasked to support Hurricane Irma.

Superfund NPL Sites: EPA has conducted Rapid Response Assessments at all 43 Federal Superfund sites in the impacted areas using aerial images as well as direct contact with companies who are responsible for on-going cleanup activities. EPA has determined that 41 Superfund sites in the area do not show damage or excessive flooding associated with Harvey and two sites require additional follow-up, (San Jacinto River Waste Pits and US Oil Recovery.

- San Jacinto: Cap repairs and underwater cap surveying continues at the San Jacinto Superfund Site. The EPA dive team is on-site and integrated in the cap survey efforts. Sampling of sediment and surface water sample was completed on September 7.
- US Oil: On, September 7, a total of 16 vacuum truckloads of water (approximately 80,000 gallons) were removed and shipped offsite for disposal. The potentially responsible party continues operating pumping equipment and a storage tank to maintain and control overflow. Sampling of the lift station water continues. In addition, soil and ground water samples were collected September 8. No sheen or odor was observed in the overflowing water.

EPA Laboratory/Analytical Services:

The TAGA is a self-contained mobile laboratory capable of real-time monitoring as well as sampling and analysis of outdoor air or emissions. The deployed TAGA mobile laboratory is currently non-operational due to a technical malfunction. Replacement parts and a technician are enroute and repairs are expected to occur Saturday, September 9th. A second EPA TAGA is enroute from Las Vegas, Nevada.

EPA's Houston laboratory reopened on September 7th.

Air Monitoring

EPA deployed four air quality technical specialists to Houston on September 8. The specialists will conduct surveillance in the Manchester area to evaluate potential sources of volatile organic compounds and benzene that have been detected in the area recently. They will perform air monitoring, evaluate data and conduct facility assessments, as appropriate. This activity is being conducted in partnership with TCEQ.

Drinking Water/Wastewater Assessments:

EPA is providing support to TCEQ for drinking water and wastewater system assessments. Ten EPA personnel are conducting drinking water assessments in the Houston Branch, five personnel are conducting wastewater assessments in the Houston Branch and one person is conducting drinking water assessments in the Port Arthur/Beaumont Branch.

Drinking Water and Waste Water Assessments (as September 8th)		
Assessment Types	**Daily Assessments**	**Total Assessments**
On-Site DW Assessments	**53**	**295**
On-Site WW Assessments	**26**	**193**
Phone DW Assessments	**331**	**4,969**
Phone WW Assessments	**82**	**3,017**

Other EPA Activities

Fuel Waivers:

Affected State	Waiver Request	Date Received	Status Talking Point	Waiver Response
Reid Vapor Pressure Requirements Waivers				
TX	Letter from TCEQ requesting a waiver of the RVP, RFG and TxLED standards in the Governor's Disaster Proclamation	8/25/17	Granted on 8/25/17	https://www.epa.gov/enforcement/eastern-and-coastal-texas-fuels-waiver
GA	Amended letter from GA Department of Natural Resources for Atlanta RVP to waive 7.8 RVP requirement to 11.5 RVP	8/29/17	Granted on 8/29/17	https://www.epa.gov/enforcement/louisiana-fuels-waiver
LA	Letter from LA governor requesting a waiver of the low RVP requirements.	8/28/17	Granted on 8/28/17	https://www.epa.gov/sites/production/files/2017-08/documents/louisianafuelswaiver082817.pdf
AR	The state is drafting a waiver request to temporarily waive the requirement for low 9.0lb RVP fuel.	8/31/17	N/A	N/A
OK	A statewide low RVP fuel waiver request was submitted and then the request was amended.	8/28/17	8/30/17	https://www.epa.gov/enforcement/second-multi-state-fuels-waivers
Dyed NRLM Diesel Fuel Waiver				
TX	Letter from TX comptroller requesting a waiver of using dyed NRLM diesel fuel in motor vehicles.	8/29/17	Granted on 8/29/17; IRS expanded to cover all of TX on 9/3/17	https://www.epa.gov/enforcement/texas-diesel-waiver

Affected State	Waiver Request	Date Received	Status Talking Point	Waiver Response
Florida	Florida Department of Environmental Protection requests use of 15 parts per million sulfur non-road diesel to be used as highway diesel fuel, waiving red dye requirements	9/6/17	Granted 9/6/17 through 9/22/17	URL pending
Low Volatility Conventional Gasoline and Reformulated Gasoline (RFG)				
CT, ME, MA, NH, RH, VT, DE, DC, MD, NJ, NY, and PA, FL, GA, NC, SC, VA, and WV; all mid-western states located in *PADD 2 - IL, IN, IA, KS, KY, MI, MN, MO, NE, ND, SD, OH, OK, TN, and WI; and all Gulf coast states located in PADD 3 –AL, AR, LA, MS, NM, and TX	Issuance of waivers based on requests for the allowance of regulated parties within the listed states to produce, sell, or distribute conventional winter gasoline (including BOBs) with an RVP of 11.5 psi before the addition of any ethanol in any RFG covered area. The waiver for El Paso goes until September 16th due to their State Implementation Plan requirements.	8/30/17	Granted on 8/31/17	https://www.epa.gov/enforcement/second-multi-state-fuels-waivers

***PADD: Petroleum Administration for Defense Districts**

Communications: On September 1st, EPA activated the Crisis Communication Plan to ensure rapid response to providing coordinated, accurate, up-to-date information regarding its field activities. EOC PIO continues to work on posting fact sheets on a variety of response topics, portraying EPA's role in the disaster and how each office provides support. They also jointly issued a press release with TCEQ on Friday, September 8th, providing an update on air quality and operational status of systems. EPA pushed a Bloomberg article on September 7th, highlighting the importance of securing Superfund sites and EPA's response personnel on the ground in TX and FL as well as PR and USVI. A story map from R6 is under development.

The EPA Liaison to the City of Houston Mayor's Office provided an update on EPA operations to Mayor Turner at the Emergency Operations Center's Senior Leadership meeting Friday, September 8TH. This was the final Senior Leadership meeting, as several city departments will be returning to normal hours and operations. The remaining agencies and departments are expected to conclude operations at the Emergency Operations Center on Sunday September 10TH. The EPA Liaison will demobilize on Monday, September 11th.

Community Liaisons (CLs) continue to be deployed to impacted areas. Tasks will include touching base with various response organizations in the 39 declared counties and providing information for use in the recovery process. By September 10th, a total of 39 CLs will be in the community.