

100,000 GPM Bypass Restores Water for City Inundated by Hurricane Flooding



Three pumps created a 100,000 GPM system to bypass the primary pump station during flood repairs.

PROJECT SCOPE

A River Authority required a 100,000 GPM bypass pumping system to temporarily replace their primary pumping station which was overcome by severe flooding from Hurricane Harvey.

CLIENT

River Authority

INDUSTRY SEGMENT

Municipality / Emergency

EQUIPMENT

- Three DV600c 30" pumps with 450 hp 6135HF485 John Deere diesel engines
- Three 528 GA Transcube Fuel Tanks
- HDPE pipe: 150' of 30" suction and 450' of 24" discharge

BACKGROUND

The residents of Beaumont, Texas, along with several nearby refineries and chemical plants, receive drinking and process water from a series of pump stations and canals. With the deluge of rain from Hurricane Harvey, the Neches River flooded and overwhelmed the city's primary pumping station's engines, taking them offline. With the flow to the subsequent pump stations cut off, the River Authority managing the water system required a 100,000 GPM system to temporarily bypass the primary pump station and re-establish a flow of water until the primary station could be brought back online.

OUTCOME

Rain for Rent delivered and installed a system of three 30" pumps with HDPE lines to bypass water from the Pine Island Bayou into the canal system. Due to the changing conditions of the jobsite, the bypass system needed to be installed twice. Initially, the system was installed as close as possible to the primary pumping station. After three days of receding floodwater, space closer to the pump station became available, and the bypass was dismantled and re-installed closer to the pump station. The system ran successfully for the duration of the project and was removed after the primary pump station engines were repaired and back online.

HIGHLIGHTS

- On the day the order was received, Rain for Rent sourced and fully serviced the pumps and engines, ensuring that the primary and secondary air filters, and belts were in top notch condition; the radiators were steamed, and new batteries were installed.
- The units were shipped from Rain for Rent's headquarters in Bakersfield, California the day they were ordered, and arrived at the pump station in Beaumont, Texas two days later.



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Rain for Rent DV600c bypass system - Beaumont TX - Hurricane Harvey Response

HIGHLIGHTS CONT.

- Due to many local Rain for Rent personnel having been displaced by the flooding in eastern Texas, crews from Rain for Rent locations in California, Colorado, Louisiana, and Indiana came in to assist with installation and 24-7 pump watch. With no nearby hotels or amenities available, the crews came prepared to be self-sufficient and equipped to help.

CUSTOMER FEEDBACK

The River Authority was very pleased with the equipment, the performance of the system, and Rain for Rent's ability to adjust to the nature of the project and changing requirements of the jobsite.



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