



The Sewerage & Water Board

OF NEW ORLEANS

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July 15, 2024

Dear Mayor Cantrell, Honorable Members of the New Orleans City Council, and Orleans Parish Legislative Delegation:

This report is delivered in accordance which Revised Statute 33:4091, Section F, which states: *“In addition to the other requirements of this Section, the board shall send a report, by electronic mail, to the members of the Orleans Parish legislative delegation and the members of the governing authority of Orleans Parish detailing the pumping and electrical power of its facilities and the available manpower no later than twenty-four hours prior to a hurricane entering the Gulf of Mexico as determined by the National Weather Service and no later than forty-eight hours after a flood watch or warning or thunderstorm watch or warning is issued by the National Weather Service for any area of Orleans Parish.”*

Flash flood warnings were issued by the National Water Service for Orleans Parish on July 11 and 12, and a flood advisory was issued on July 13, 2024. Thunderstorms capable of producing heavy rain moved through the area on these days, consistent with summer weather patterns. The status of SWBNO’s pumping and power equipment before and during the events is detailed below.

STORM IMPACTS

7/11/2024

The storm moved into Orleans Parish during the 11:00 AM hour, and the heaviest rainfall occurred after 12:00 PM. The rainfall occurred primarily in the western parts of the city, near the Jefferson Parish line. Most of Orleans Parish recorded no rainfall.

The highest recorded accumulation was 1.57 inches at DPS-06 in Lakeview. The average accumulation across stations monitored was 0.31 inches. The highest rainfall intensity was recorded at 3.00 inches per hour, observed at DPS-06. The

average peak rainfall intensity across the network between 11:00 AM and 2:00 PM was 1.07 inches/hour.

There were no reports of localized pooling or flooding from the Real Time Crime Center for this rain event.

7/12/24

The storm moved into Orleans Parish after 10:00 AM, and the heaviest rainfall was recorded that hour. Rainfall generally ended by 12pm.

The highest recorded accumulation was 1.59 inches at DPS-20 in New Orleans East-Intracoastal Waterway. The average accumulation across stations monitored between 10:00 AM and 1:00 PM was 0.46 inches. The highest rainfall intensity was recorded at 4.68 inches per hour, observed at DPS-11 (Lower Algiers). The average peak rainfall intensity across the network between 10:00 AM and 1:00 PM was 1.90 inches/hour.

There were no reports of localized pooling or flooding from the Real Time Crime Center for this rain event.

7/13/24

The system moved into Orleans Parish after 3:00 PM, with no rainfall accumulation recorded after 5pm. Much of the city saw no rainfall. The highest recorded accumulation was 0.59 inches at DPS-2 in Mid-City. The average accumulation across the network between 3:00 PM and 5:00 PM was 0.30 inches. The highest rainfall intensity was recorded at 3.00 inches per hour, observed at DPS-02. The average peak rainfall intensity across the network between 3:00 PM and 5:00 PM was 1.39 inches/hour. These averages include only reporting stations that reported rainfall.

There were no reports of localized pooling or flooding from the Real Time Crime Center for this rain event.

PUMPING AND POWER

Below is the status of SWBNO's pumping and power equipment at the outset of the event.

Drainage Pumps:

A total of 90 of 99 drainage pumps were reported in service at the outset of the event.

- DPS 6:** 1 pump is out of service while inspection of pump is in progress to determine the extent of any repairs needed. RTS TBD.
- DPS 10:** No. 1 pump (60-hz) out of service. Vendor selected to refurbish pump. RTS August 2024.
- DPS 13:** No. 4 pump (diesel pump) is for emergency use only. Additional drainage funding is needed to move forward with repairs.
- DPS 14:** No. 3 and No. 4 pumps out of service due to mechanical issues. RTS pending contractor work required.
Note that drainage from this area can also be addressed by DPS 10, DPS 16, and Dwyer DPS via the Morrison Canal.
- DPS 15:** No. 1 pump gearbox repairs are in progress. RTS Q2 2025.
- DPS 17:** Pumps A & D (25-hz) out of service due to the issues with electric motor. RTS TBD, pending funding availability.
- DPS 18:** Pump No. 1 out of service as of May 2024. RTS pending further mechanical inspection.
A portable pump was installed at this location as a temporary measure.

Underpass Stations:

At UPS Old Carrollton, which services the Carrollton Ave/Interstate I-10 underpass, two of three pumps at that location are out of service. A temporary pump is deployed at this location.

No issues reported with the remaining underpass pumps or stations during these rain events.

Power:

Turbines 5 (25-hz), and 6 (60-hz), along with four frequency changers on the Eastbank, and one on the Westbank, as well as four EMDs were also available at the outset of this event.

Due to the limited amount of redundancy in 25-hz power, plans were made in advance of the rain event to utilize frequency changers for the stations which serve primarily 25-hz pumps.

A combination of Frequency Changers and T5 were used for these events, with no major issues encountered.

Unit*	Frequency	Capacity in MW	Available
T4	25 Hz	20 MW	0 (placed out of service on February 3, 2024)
T5**	25 Hz	20 MW	16 (revised capacity while Turbine 4 is out of service)
Carrollton Frequency Changers 1&2	Converts 60 to 25Hz	8.5 MW	8.5
Station D Frequency Changers 3&4	Converts 60 to 25Hz	12 MW	12
West Bank Power Complex (Algiers Water Treatment Plant)	Converts 60 to 25Hz	2.5 MW	2.5
Five EMDs	25Hz	12.5 MW (total) 2.5 MW (each)	10 (repairs for EMD #1 in progress)
Plant Frequency Changer via T6	Converts 60 to 25Hz	3.75 MW	0 MW (RTS to be determined)
		Total 25 Hz:	49 MW
T6	60 Hz	22 MW	22 MW

*T3 has been decommissioned as of May 2021, and T1 has been decommissioned as of June 2022. Both units have been removed from this table.

STAFFING

Of New Orleans' 24 drainage pumping stations, some are staffed, some run remotely, and some are staffed as circumstances dictate. For this event, all stations were staffed appropriately.