The Sewerage & Water Board

OF NEW ORLEANS

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www.swbno.org

September 9, 2024

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

This report is delivered in accordance with 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.*"

A Flood Watch was issued for Orleans Parish beginning on September 3, 2024 at 7pm, extending through September 7, 2024 at 7am. A weather pattern capable of producing heavy rain moved through the area over the course of several days. The status of SWBNO's pumping and power equipment before and during the events is detailed below.

STORM IMPACTS

The New Orleans area began experiencing rainfall on the morning of September 4. A summary of rainfall data for September 4 through 7 is below. In general, rain bands passed through the area at various times throughout the 4-day period.

Day	Highest Hourly Accumulation (in)	Maximum Daily Accumulation (in)	Average Daily Accumulation (in)	Maximum Intensity (in/hour)	Average Peak Intensity (in/hour)
Sept. 4	0.95 at DPS-16 (11:00 AM)	2.29 (DPS-16)	1.45	4.92 (DPS-11)	2.89
Sept. 5	0.60 at DPS-06 (11:00 AM)	1.55 (DPS-06)	1.00	2.52 (DPS-10)	1.55
Sept. 6	0.75 at DPS-06 (5:00 AM)	2.31 (DPS-06)	1.54	2.76 (DPS-06)	1.02
Sept. 7	0.94 at DPS-11 (7:00 AM)	1.38 (DPS-11)	1.54	2.76 (DPS-11)	0.29

*** Note that rainfall intensity data was not available for DPS 03, 17, and 19. Neither intensity nor total accumulation data were available for DPS-15 and Station A.*

On September 4, the Real Time Crime Center (RTCC) reported several locations in the New Orleans East Area with impassable intersections between 8pm and 9pm. The RTCC ultimately did not report a resolution time for these locations. No other areas of concern were noted by the RTCC during this timeframe.

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: **I 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 September 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 on-going SWBNO work and 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 is available at this location as a temporary measure.

Underpass Stations:

At UPS Old Carrollton, which services the Carrollton Ave/Interstate I-10 underpass, one 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:

Turbine 4, Turbines 5 (25-hz), and 6 (60-hz), along with four frequency changers on the Eastbank, and one on the Westbank, as well as five EMDs were also available at the outset of this event.

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

Unit*	Frequency	Capacity in MW	Available
T4	25 Hz	20 MW	18.5 MW
T5**	25 Hz	20 MW	16 (revised capacity)
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

Unit*	**Frequency**	**Capacity in MW**	**Available**
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)	12.5
Plant Frequency Changer via T6	Converts 60 to 25Hz	3.75 MW	0 MW (RTS to be determined)
		Total 25 Hz:	**70.0 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.