



The Sewerage & Water Board

OF NEW ORLEANS

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October 28, 2021

Dear Mayor Cantrell, Honorable Members of the New Orleans City Council, and Orleans Parish 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.”*

On Wednesday, October 27, 2021, the National Weather Service issued a severe thunderstorm warning and flood advisory associated with a line of strong storms that moved through Orleans Parish. The weather advisories were in effect from approximately 6:45 p.m. until 8:45 p.m. The status of the Sewerage & Water Board’s power and drainage equipment during the event is detailed below.

RAINFALL

Total rainfall during the October 27 event was less than 2”, with short periods of high intensity downpours. There were some areas of pooling reported, particularly near the Carrollton and Gentilly underpasses. The standing water receded as expected as stormwater made its way into the system.

PUMPING AND POWER

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

Drainage Pumps:

A total of 94 of 99 drainage pumps were available at the outset of the event.

- DPS 14:** #4 Pump out of service for gear box repairs. Vendor in possession of gear box, repairs scheduled for completion in mid-November
- DPS 6:** F and I pumps out of service; F pump repairs beginning this week
- DPS 12:** D Pump out of service; expected return by next week
- DPS 13:** #5 Diesel Pump out of service; repairs underway

C Pump at DPS 6 is back online and performed well during the rain event. F Pump repairs will begin this week and are scheduled for completion in 2-3 weeks. D Pump at DPS 12 has been returned from the vendor and is in the process of being reinstalled at the station. It is expected to return to service next week.

The remaining drainage assets performed as expected during the course of the event, with no significant issues.

Underpass Stations:

All 27 underpass station pumps (UPS) were available and ready for use during the event. There were no reported issues with the underpass pumps.

Power:

The Carrollton Water Plant switched over to self-generated power via Turbine 6 in anticipation of high winds associated with the storm. The operations team utilized Turbines 4 and 5, along with Frequency Changers, during the peak of the storm event and all performed well. T4 and T5 generated approximately 9MW and 8MW, respectively, at the peak of the event. The EMDs were not needed during this storm event.

Entergy power briefly went out in the area of Broad and Orleans during the storm. Sewer pumping station #8, which typically run on Entergy power, operated off of its

permanent generator during this period. The power was restored in about 20 minutes, with no significant issues.

Unit	Frequency	Capacity in MW	Available
T1	25 Hz	Approx. 6 MW	0
T4	25 Hz	20 MW	18
T5**	25 Hz	20 MW	17.5
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
T6 (via Plant Frequency Changer)	Converts 60 to 25Hz	3.75 MW	3.75
		Total 25 Hz:	72.25 MW
T6	60 Hz	15 MW	15 (60 Hz)

*T3 has been decommissioned as of May 2021 and has been removed from the table.

** T5 was tested up to 17.5MW during the pre-start and commissioning stage.

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.