



The Sewerage & Water Board

OF NEW ORLEANS

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May 6, 2022

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 Friday, May 6, 2022, the National Weather Service issued a severe thunderstorm warning associated with a storm system that passed through Orleans Parish between approximately 1:00 and 2:00 a.m. The status of SWBNO’s pumping and power equipment and facilities before and after the event are detailed below.

STORM IMPACTS

This event was a fast-moving storm system that produced some areas of heavy rainfall across the city. A second wave of rain moved across the region around 8:00 a.m. Rainfall amounts ranged from .5” in Algiers to more than 3.8” in Gentilly and the Lakefront areas. SWBNO did not receive any reports of significant flooding, but minor pooling on street surfaces as a result of the accumulated rain was likely. As detailed below, all available pumping and power equipment performed as expected.

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 96 of 99 drainage pumps were available at the outset of the event.

DPS 6: I pump out of service due to bearing issue; parts have been shipped to manufacturer facility in Wisconsin for repair

DPS 11: E pump out of service due to an oil leak; facility maintenance is investigating

DPS 13: No. 4 pump designated emergency use only; staff investigating potential bearings issue

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:

Turbines 4, 5 and the frequency changers were online for this event and performed well. Turbine 6 was available for use, as were four out of five EMDs. The remainder of the power assets were utilized as needed and performed as expected during the rainfall event.

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	22 MW	22 MW

*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.