



The Sewerage & Water Board

OF NEW ORLEANS

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www.swbno.org

March 23, 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 Tuesday, March 22, 2022, the National Weather Service issued tornado warnings, severe thunderstorm warnings, and a flood advisory associated with a severe storm system that passed through Orleans Parish between 4:00 and 8:00 p.m. The status of SWBNO’s pumping and power equipment and facilities before and after the event are detailed below.

STORM IMPACTS

The March 22 weather system was primarily a wind event. The total rainfall across the area was not significant, and there were no reports of pooling or flooding. As detailed below, all available pumping and power equipment performed as expected. The most significant impact to SWBNO’s operations was the loss of Entergy power at the sewer pumping stations in the Lower Ninth Ward (4) and New Orleans East (10). SWBNO was in contact with Entergy New Orleans regarding the outages, and all of the affected stations had power restored overnight, negating the need for any temporary generator power or portable pumps.

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 97 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**

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 was online for this event, and Turbine 5 was available for use. Turbine 6 was unavailable during this event due to final testing of the newly installed switchgear equipment; it is scheduled to return to service later this week. Turbine 1 remains out of service. Four out of five EMDs, and all frequency changers were available. The remainder of the power assets were utilized as needed and performed as expected during the rainfall event. The Carrollton Water Plant did not lose Entergy power during the 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	0
		Total 25 Hz:	68.5 MW
T6	60 Hz	22 MW	0 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.