



# **The Sewerage & Water Board**

## **OF NEW ORLEANS**

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**July 29, 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 Wednesday, July 27, 2022, the National Weather Service issued a flash flood warning associated with a thunderstorm that passed over Orleans Parish between approximately 2:30 and 4:00 p.m. On Thursday, July 28, 2022, the National Weather Service issued a flood advisory associated with a thunderstorm that passed over Orleans Parish between approximately 3:45 and 5:45 a.m.

Below is the status of SWBNO’s pumping and power equipment and facilities, which was the same for both of these events.

### **STORM IMPACTS**

Per the recent summer storm trend, these storms produced short but high-intensity rainfall in some areas of the city. On Wednesday, rainfall was concentrated along the Tchoupitoulas corridor, Black Pearl and Riverbend neighborhoods. The highest recorded rain amount was approximately half an inch SWBNO’s Central Control in the Hollygrove area, and the highest recorded intensity was 2.6” inches/hour at the

same location. The rain amounts and intensity likely were higher along areas close to the river based on reports of street flooding along Tchoupitoulas and Carrollton, some of which may have been exacerbated by significant street construction in those areas.

Early Thursday morning, total rainfall was just less than an inch. Rain intensity did reach 3.96"/hour in New Orleans East and close to 3" and hour around Mid-City. SWBNO did not receive any reports of significant street flooding.

## **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 95 of 99 drainage pumps were available at the outset of the event.

<b>DPS 6:</b>	<b>I pump out of service, awaiting shaft replacement; return to service Q1 2023</b>
<b>DPS 11:</b>	<b>E pump out of service due to an oil leak; return to service in mid-August</b>
<b>DPS 13:</b>	<b>No. 4 pump designated emergency use only; in-depth inspection underway</b>
<b>DPS 16:</b>	<b>No. 2 pump out of service; investigation underway, RTS TBD</b>

The remaining drainage assets performed as expected during these events, with no significant issues reported.

### **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 primarily utilized for these events and performed well. Turbines 5, 6, frequency changers, and four out of five EMDs were also available for use. Frequency changer #3 at Station D remains offline for some additional repairs after scheduled cleaning and maintenance; return to service is scheduled for mid-August. The remainder of the power assets were utilized as needed and performed as expected during the rainfall event.

<b>Unit*</b>	<b>Frequency</b>	<b>Capacity in MW</b>	<b>Available</b>
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	6 (#3 offline for scheduled maintenance)
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
		<b>Total 25 Hz:</b>	<b>62.5 MW</b>
T6	60 Hz	22 MW	<b>22 MW</b>

\*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.

\*\* 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.