

The Sewerage & Water Board OF NEW ORLEANS

625 ST. JOSEPH STREET 504.529.2837 OR 52.WATER

www.swbno.org

July 26, 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 Thursday, July 20, 2022, the National Weather Service issued a flash flood warning associated with a thunderstorm that passed over Orleans Parish between approximately 5:00 and 8:00 p.m. Below is the status of SWBNO's pumping and power equipment and facilities before and during the event.

STORM IMPACTS

This storm produced significant, high-intensity rainfall in many areas of the city. The highest amount of rainfall recorded was 4.7 inches in the Gentilly neighborhood – enough to be designated a "50-year storm" per the National Weather Service standards. Rainfall intensity reached 6 inches/hour in several areas, including Lakeview, Mid-City, and Gentilly. There were reports of street and underpass flooding in these areas throughout the evening, as rainwater made its way into the drainage system for pumping.

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.

DPS 6: I pump out of service, awaiting shaft replacement; return to service Q1 2023

DPS 11: E pump out of service due to an oil leak; return to service in mid-August

DPS 13: No. 4 pump designated emergency use only; in-depth inspection underway

DPS 16: No. 2 pump out of service; in-house staff are investigating and making repairs

SWBNO's pumping assets performed well during this event, and there were no significant issues to report.

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, although the amount and intensity of rain did result in some underpass flooding while the pumps worked to catch up with the rainfall.

Power:

Turbines 4 and 5 were utilized for this event and performed well, generating a maximum of 20.3MW. Turbine 6, frequency changers, and four out of five EMDs were also available for use. Note that frequency changer #3 at Station D is presently offline for scheduled cleaning and maintenance. The remainder of the power assets were utilized as needed and performed as expected during the rainfall event.

| Unit* | Frequency | Capacity in MW | Available |
|----------------------|----------------|----------------|-----------|
| T4 | 25 Hz | 20 MW | 18 |
| T5** | 25 Hz | 20 MW | 17.5 |
| Carrollton Frequency | Converts 60 to | 8.5 MW | 8.5 |
| Changers 1&2 | 25Hz | | |

| Station D Frequency | Converts 60 to | 12 MW | 6 (#3 offline for |
|--------------------------|----------------|-----------------|-------------------|
| Changers 3&4 | 25Hz | | scheduled |
| | | | maintenance) |
| West Bank Power Complex | Converts 60 to | 2.5 MW | 2.5 |
| (Algiers Water Treatment | 25Hz | | |
| Plant) | | | |
| Five EMDs | 25Hz | 12.5 MW (total) | 10 |
| | | 2.5 MW (each) | |
| T6 (via Plant Frequency | Converts 60 to | 3.75 MW | 3.75 |
| Changer) | 25Hz | | |
| | | Total 25 Hz: | 62.5 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.

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