July 19, 2024

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.*"

Flash flood warnings were issued by the National Weather Service for Orleans Parish on July 17th until 6:45 PM and July 18th until 5 PM. Thunderstorms capable of producing heavy rain moved through the area on these days, consistent with summer weather patterns. The status of SWBNO's pumping and power equipment before and during the events is detailed below.

STORM IMPACTS

7/17/2024

The storm began just before 3 PM and continued to just past 7 PM. The highest recorded accumulation was 1.48 inches at DPS 13 in Algiers. The average accumulation across the network was 0.26 inches. The highest rainfall intensity was observed at DPS 14 in New Orleans East – Lakefront area at 3.24 inches/hour. The average rainfall intensity across the network was 0.98 inches/hour. Note that the data was not available for DPS 3, 15, 16, 17, 19, and Station A.

There were no reports of localized pooling or flooding from the Real Time Crime Center for this rain event.

(STORM IMPACTS CONTINUED)

7/18/2024

The storm began just before 1 PM and continued to just past 6 PM. The highest recorded accumulation was 3.83 inches at the Carrollton Water Plant. The average accumulation across the network was 1.22 inches. The highest rainfall intensity was observed at Central Control at Carrollton Water Plant 5.28 inches/hour. The average rainfall intensity across the network was 2.18 inches/hour. Note that the data was not available for DPS 3, 17, 19, and Station A.

Localized pooling and flooding was reported at (5) unique locations across the City by the Real Time Crime Camera Center (RTCC), starting around 1:15 PM, with water reported as receded at the majority of locations by 4:13 PM. Other significant areas of flooding were widely reported in local news outlets.

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 90 of 99 drainage pumps were reported in service at the outset of the event.

DPS 6:	**I pump is out of service while inspection of pump is in progress to determine the extent of any repairs needed. RTS TBD.**
DPS 10:	**No. 1 pump (60-hz) out of service. Vendor selected to refurbish pump. RTS August 2024.**
DPS 13:	**No. 4 pump (diesel pump) is for emergency use only. Additional drainage funding is needed to move forward with repairs.**
DPS 14:	**No. 3 and No. 4 pumps out of service due to mechanical issues. RTS pending contractor work required.** *Note that drainage from this area can also be addressed by DPS 10, DPS 16, and Dwyer DPS via the Morrison Canal.*
DPS 15:	**No. 1 pump gearbox repairs are in progress. RTS Q2 2025.**
DPS 17:	**Pumps A & D (25-hz) out of service due to the issues with electric motor. RTS TBD, pending funding availability.**
DPS 18:	**Pump No. 1 out of service as of May 2024. RTS pending further mechanical inspection.** *A portable pump was installed at this location as a temporary measure.*

Underpass Stations:

At UPS Old Carrollton, which services the Carrollton Ave/Interstate I-10 underpass, one of three pumps at that location are out of service. A temporary pump is deployed at this location.

At Pontchartain UPS, one pump is out of service for repairs, which should be returned to service by 20 July 2024.

No issues reported with the remaining underpass pumps or stations during these rain events.

Power:

Turbine 4, Turbines 5 (25-hz), and 6 (60-hz), along with four frequency changers on the Eastbank, and one on the Westbank, as well as four EMDs were also available at the outset of this event.

A combination of Frequency Changers and T5 were used for this event, with no major issues encountered.

Unit*	**Frequency**	**Capacity in MW**	**Available**
T4	25 Hz	20 MW	18.5 MW
T5**	25 Hz	20 MW	16 (revised capacity)
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 (repairs for EMD #1 in progress)
Plant Frequency Changer via T6	Converts 60 to 25Hz	3.75 MW	0 MW (RTS to be determined)
		Total 25 Hz:	**67.5 MW**

Unit*	Frequency	Capacity in MW	Available
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.