



# **The Sewerage & Water Board**

## **OF NEW ORLEANS**

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June 7, 2019

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.”*

A flash flood watch was issued by the National Weather Service at approximately 12:57 p.m. on Wednesday, June 5, through 2:27 p.m. on Thursday, June 6.

The following is a report detailing the manpower, pumping and electrical power of the Sewerage and Water Board’s (SWBNO) facilities at the time of that watch. The ultimate rainfall was less than anticipated in Orleans Parish, and SWBNO’s drainage assets responded appropriately and without issue.

## PUMPING

New Orleans’ drainage system had 117 out of its 120 drainage pumps available (or 97.5%). Of the three pumps out of service for maintenance or refurbishment, two are “constant duty” pumps designed with low cfs capacity for everyday use (as opposed to pumps with larger capacity, which are only turned on during rain events).

Station	Location	Total Pumps	Designed Capacity (cfs)	Total Pumps Out	Station Operational Capacity
1	Broadmoor	11	6,825	1	99%
6	17 <sup>th</sup> Street Canal	15	9,580	1	99%
14	N.O. East	4	1,200	1	75%

## POWER

All turbines, frequency changers and EMDs were available for use throughout the day.

UNIT	FREQUENCY	CAPACITY IN MEGAWATTS (MW)	AVAILABLE MW
Turbine 1	25 Hz	~6 MW	6
Turbine 3	25 Hz	~7 MW*	7
Turbine 4	25 Hz	20 MW	20
Turbine 5	25 Hz	20 MW**	12
Turbine 6	60 Hz	15 MW***	15
Carrollton Freq. Changer (1&2)	Converts 60 to 25 Hz	8.5 MW	8.5

<b>Station D Freq. Changer (3&amp;4)</b>	<b>Converts 60 to 25 Hz</b>	<b>12 MW</b>	<b>12</b>
<b>Five EMDS</b>	<b>25 Hz</b>	<b>12.5 MW</b>	<b>12.5</b>
<b>TOTAL AVAILABLE</b>	<b>25 Hz</b>	<b>86 MW</b>	<b>78 MW</b>
<b>TOTAL AVAILABLE</b>	<b>60 Hz</b>	<b>15 MW</b>	<b>15 MW</b>

\*Turbine 3 does not operate at its original capacity.

\*\* Turbine 5 underwent repairs last month and, after several full-scale tests of its capability, is able to produce only 12MW of 25 Hz power. SWBNO continues to work with General Electric to determine what additional adjustments to make to restore its energy production to full capacity.

\*\*\* Turbine 6 generates 60 Hz electricity, which can be converted to 3.75 MW of 25 Hz electricity through a frequency changer.

## **MANPOWER**

Of New Orleans' 24 drainage pumping stations, some are staffed, some run remotely and some are staffed as circumstances dictate. Per SWBNO rain event protocol, additional staff was on call for the duration of the event.