



# **The Sewerage & Water Board**

## **OF NEW ORLEANS**

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May 16, 2020

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.”*

The National Weather Service issued a flash flood warning at 11:53 p.m. on Thursday, May 14. The storm that followed dropped more than 3.25 inches of rain in some areas. The heaviest rain was in the Uptown area, where 2.5 inches fell in about an hour shortly after midnight.

This report covers the status of the Sewerage and Water Board’s (SWBNO) pumping and power assets, as well as staffing, during this event.

### **PUMPS AND POWER**

SWBNO had adequate self-generated power at the outset of this rain event. Turbine Generator 5 (T5) remains out of service after an explosion that occurred in December. One of our five EMDs was unavailable due to inspection and repairs.

On the pumping side, all 99 of the city’s drainage pumps were operationally available at the outset of the rain event. Around 12:45 a.m., Drainage Pump Station (DPS) 1 in Broadmoor lost Entergy power, likely due to lightning strikes, which shut

off two pumps. Around that same time, lightning also knocked out power to an electrical feeder connected to one of our frequency changers, also impacting pumping operations. Station operators recovered power sufficient to continue draining the area for the remainder of the storm.

<b>UNIT</b>	<b>FREQUENCY</b>	<b>CAPACITY MEGAWATTS (MW)</b>	<b>IN</b>	<b>AVAILABLE MW</b>
<b>Turbine 1</b>	<b>25 Hz</b>	<b>~6 MW</b>		<b>6</b>
<b>Turbine 3</b>	<b>25 Hz</b>	<b>~6 MW</b>		<b>6</b>
<b>Turbine 4</b>	<b>25 Hz</b>	<b>20 MW</b>		<b>20</b>
<b>Turbine 5</b>	<b>25 Hz</b>	<b>20 MW</b>		<b>0</b>
<b>Turbine 6</b>	<b>60 Hz</b>	<b>15 MW</b>		<b>15</b>
<b>Carrollton Changer (1&amp;2)</b>	<b>Freq. Converts 60 to 25 Hz</b>	<b>8.5 MW</b>		<b>8.5</b>
<b>Station D Changer (3&amp;4)</b>	<b>Freq. 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>10</b>

## **MANPOWER**

Of New Orleans' 24 drainage pumping stations, some are staffed, some run remotely, and some are staffed as circumstances dictate. Staffing was adjusted to ensure adequate manpower in advance of this event.