



Permanent Canal Closures & Pumps

Construction Impact Hotline at: 1-877-427-0345

Updated July 2013

U.S. ARMY CORPS OF ENGINEERS

BUILDING STRONG®

Public safety is the Corps of Engineers' top priority. Congress has fully authorized and funded the Hurricane and Storm Damage Risk Reduction System (HSDRRS) for southeast Louisiana. The \$14.45 billion HSDRRS includes five parishes and consists of 350 miles of levees and floodwalls; 73 non-Federal pumping stations; 3 canal closure structures with pumps; and 4 gated outlets.

Project Summary

The three main outfall canals in New Orleans are a critical element of the flood control system, serving as drainage conduits for much of the city. The canals run south-to-north near the Orleans Parish lakefront between the Jefferson Parish line and the Inner Harbor Navigation Canal (IHNC) with floodwall-topped levees lining each canal. The 17th Street Canal extends 13,500 feet from Pump Station 6 to Lake Pontchartrain along the Jefferson Parish line. The Orleans Avenue Canal, between the 17th Street Canal and the London Avenue Canal, runs approximately 11,000 feet from Pump Station 7 to Lake Pontchartrain. The London Avenue Canal extends 15,000 feet north from Pump Station 3 to Lake Pontchartrain about halfway between the Orleans Avenue Canal and the IHNC.

The Corps awarded the approximately \$615 million contract to construct Permanent Canal Closures & Pumps (PCCP) at the mouths of the 17th Street, Orleans Avenue and London Avenue outfall canals on April 17, 2013 to *PCCP Constructors JV*. The PCCP will provide a permanent and more sustainable measure for reducing the risk of a 100-year level storm surge entering the outfall canals. The PCCP will replace the Interim Closure Structures, which were constructed in 2006. The notice to proceed was issued on May 6, 2013, and construction will be complete in 44 months (2017). The existing Interim Closure Structures will continue to provide 100-year levels of risk reduction until construction of the PCCP is complete.

Project Features

The PCCP will be composed of permanent gated storm surge barriers and brick façade pump stations at or near the lakefront. The pumps will move rainwater out of the canals, around the gates and into Lake Pontchartrain during a tropical weather event, and be equipped with a stand-alone emergency power supply capacity so that it can operate independently of any publically provided utility.

When complete, the PCCP at 17th Street will consist of six 1,800 cubic feet per second (cfs) pumps and two 900 cfs pumps and have a total pumping capacity of 12,600 cfs; the PCCP at Orleans Avenue will consist of three 900 cfs pumps and have a total pumping capacity of 2,700 cfs; the PCCP at London Avenue will consist of four 1,800 cfs pumps and two 900 cfs pumps and have a total pumping capacity of 9,000 cfs.



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Project Status

Preconstruction activities such as surveying, soil sampling and test pile driving are under way. Throughout construction, residents are urged to follow signage and leave construction materials undisturbed. All work will be conducted Monday through Saturday in accordance with local ordinances. The Corps will continue to work closely with the Southeast Louisiana Flood Protection Authority-East and its supporting levee districts to minimize impacts and keep residents and businesses well informed of construction activities.

17th Construction Footprint



Orleans Construction Footprint



London Construction Footprint



Did you know that...?

- When fully operational, the three pump stations combined will be able to pump 24,300 cfs. That is enough water to fill an Olympic-sized swimming pool in 3.63 seconds or fill the Superdome in less than 90 minutes.
 - Individually, the 17th St. PCCP will be able fill an Olympic-sized pool in 7.0 seconds.
 - Individually, the Orleans Ave PCCP will be able to fill an Olympic-sized pool in 32.7 seconds.
 - Individually, the London Ave PCCP will be able to fill an Olympic-sized pool in 9.81 seconds.
- More than 200,000 cubic yards of material will be excavated from all three PCCP sites. That is enough to fill the Superdome with a layer of material that is more than 20 feet thick.
- Approximately 8,000 tons of reinforcing steel will be used on this project. That will surpass the weight of the iron in the Eiffel tower by 700 tons.



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If at any time you have questions about the work on the PCCP, please contact the Construction Impact Hotline at: 1-877-427-0345.

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New Orleans District web site.



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