Permanent Canal Closures & Pumps

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

Updated September 2013

U.S. ARMY CORPS OF ENGINEERS **BUILDING STRONG®**

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, consists of 350 miles of levees and floodwalls; 73 non-Federal pumping stations; 3 canal closure structures with pumps; and 4 gated outlets.

Rendering of the 17th Street Canal Pump Station

Rendering of the Orleans Avenue Canal Pump Station

Rendering of the London Avenue Canal Pump Station

Project Summary / Background

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

Public safety is the Corps' top priority. Throughout construction, residents are urged to pay attention to construction signage and to remain outside of designated construction areas. The Corps and its contractor will continue to minimize impacts and keep residents / businesses well informed of construction activities. *Current activities include:* Bypass cofferdam construction, pile load testing, wick drain and sand drainage blanket installation.

Construction Impacts:

- Elevated noise levels from pile driving, generators, etc.
    - **Pile Driving Activities**: November 2013 – November 2014 between 7:00 AM and 9:00 PM
- Increased truck traffic (trucks will utilize approved haul routes)
- Temporary road closures
- Extended work hours (24 hours per day)
    - **November 2013 – Project Completion (2017)**

Efforts to Minimize Impacts:

- Noise and vibration monitoring plan.
- "Five Cubits" GPS tracking system to monitor trucks / ensure that they are following approved haul routes.
- Some materials will be delivered by barge.
- Construction signage is being placed around the sites.
- Any temporary road closures will be communicated to the public ahead of schedule.
- The Corps will continue to inform / educate the community about the project in advance of major construction.

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.**
- **Approximately 8,000 tons of reinforcing steel will be used on this project. That will surpass the amount of steel used to construct the St. Louis Arch by 2,000 tons.**

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

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