



STORM PROOFING

Updated August 2012

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

Following the devastation of Hurricane Katrina, Congress authorized the Corps of Engineers to repair 61 pump stations in Orleans, Jefferson, St. Bernard and Plaquemines parishes. In addition, the Corps was authorized to storm proof pump stations in the greater New Orleans metropolitan area in order to ensure their operability during and after tropical events. In addition, the Corps upgraded safe rooms in Jefferson Parish and constructed new ones to provide a safe haven for operators at those stations. The storm proofing work is divided into 34 separate projects in Orleans and Jefferson parishes. The total value for the storm proofing work is an estimated \$340 million.

Project Features

Construction includes providing safe rooms, automating pump and ancillary systems, installing climber screens, hardening building structures (frames, walls, doors and roofs), installing additional wells to backup Non-Potable Water Systems, elevating electrical equipment, adding fuel capacity, installing standby generators and underground feeders and adding perimeter floodwalls and berms. Different pump stations will receive different storm proofing measures based on the requirements and capacity of each pump station.

Safe rooms were constructed in Jefferson Parish following Hurricane Katrina. Eight safe rooms were constructed by the parish in 2007 and the Corps constructed five additional safe rooms in 2008. In 2009, the Corps upgraded five of the safe rooms constructed by the parish by adding vertical pumps, ancillary equipment and camera systems. The safe rooms are designed to withstand Category 5 hurricane winds and to protect the operators from debris. The safe rooms are raised to protect personnel from storm surges and they contain restrooms; heating, ventilation and air conditioning systems; backup generators; and sleeping accommodations.



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Project Status

All safe room construction is complete, and the remaining storm proofing work will be complete by February 2013.



Safe House at Hero Pump Station



Climber Screens at Westminster Pump Station



Construction of a Generator Building at the Carrollton Water Treatment and Power Plant Facility

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