

Southeast Flood Protection Authority – East

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Authority Facts

- Regional Entity created in 2007 by Legislature as a result of Katrina
- Quasi-State Agency, overseeing 3 subordinate districts
- 225 staff, including
 - Police Department
 - Professional Engineers
 - Pump Station Operators (of different types)
 - Mowers/Heavy Equipment Operators
 - Trades (Plumbers, Electricians, etc)
 - Mechanics
 - Administrative Staff



Purpose and Mission

Mission: to ensure the physical and operational integrity of the regional flood risk management system in southeastern Louisiana as a defense against floods and storm surge from hurricanes.





Hurricane & Storm Damage Risk Reduction System (HSDRRS)

Corps of Engineers authorized by Congress to construct 100-year risk reduction for the Greater New Orleans region.

The \$14.5 billion HSDRRS is one of the strongest, largest, and most complex of its kind in the world.

HSDRRS substantially completed on June 1, 2011.

Operation and maintenance completely turned over to the Flood Protection Authority (FPA) in 2013.



Levee System Infrastructure Statistics

| nfrastructure Component | EJLD | OLD | LBBLD | Total |
|-------------------------------------|------|------|-------|-------|
| _evee/Floodwall (miles)* | 28 | 107 | 57 | 192 |
| | | | | |
| Levee Turf Maintenance Area (acres) | 730 | 1400 | 1400 | 3530 |
| | | | | |
| Flood Gates (land-based) | 14 | 200 | 32 | 246 |
| | | | | |
| Navigable Floodgates | 0 | 6 | 2 | 8 |
| | | | | |
| Permanent Canal Closures and Pumps | 0 | 3 | 0 | 3 |

Includes 1.8 mile IHNC-Lake Borgne Surge Barrier

IHNC Lake Borgne Surge Barrier



1,271 CONCRETE CYLINDER PILES:

66-inch diameter spun concrete reinforced piles 144-ft. in length, filled with concrete 80-ft. from top Driven to a depth of –130 feet

2,512 CLOSURE PILES:

Placed in the gaps between both sides of the cylinder piles 18-in x 18-in., 55 ft. in length
Driven to a depth –40 feet

638 STEEL BATTER PILES:

Spaced every 12 feet 38" diameter, 205' in length Driven to a depth of -190 feet





Complex Structures / Navigation Gates



GIWW Sector Gate (150-ft.)



Bayou Bienvenue Life Gate (56'-ft.)



GIWW Barge Bypass Gate (150-ft.)



Seabrook Control Structure (96-ft.)

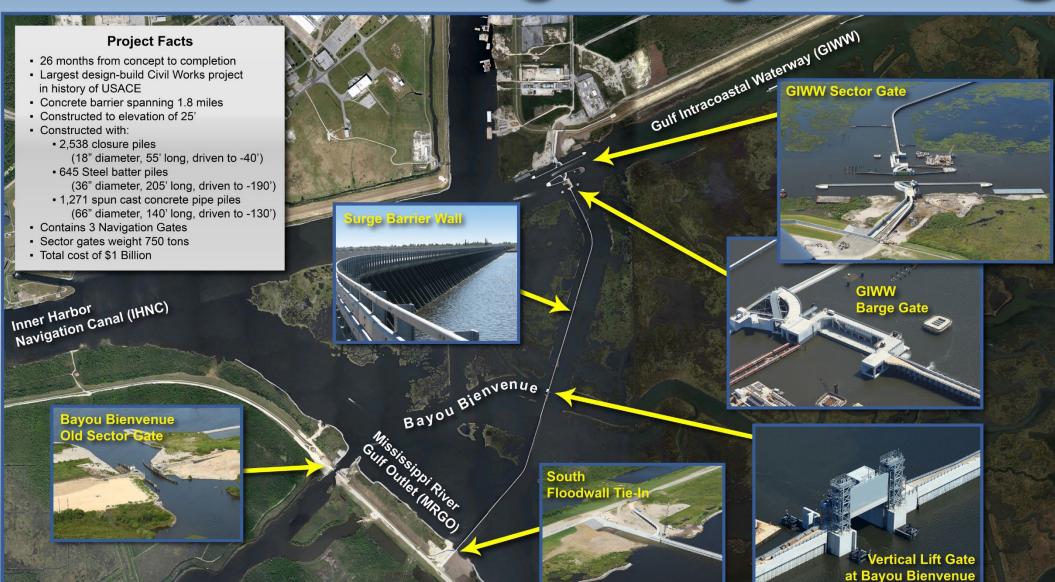






IHINC Lake Borgne Surge Barrier (

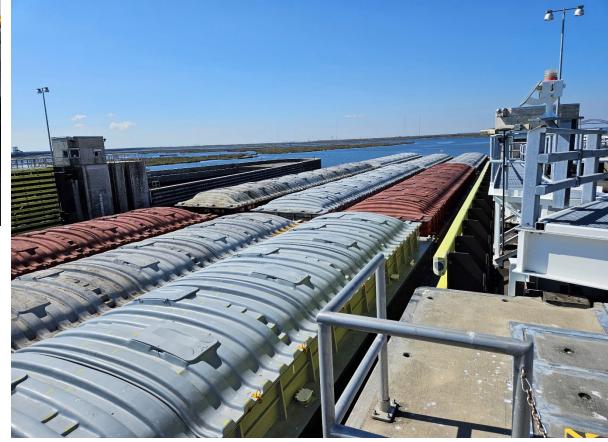
















Land-based Floodgate Types















Complex Structures / Navigation Gates



Bayou Dupre Control Structure (56-ft.)



Caernarvon Control Structure (56-ft.)



Bayou Bienvenue Sector Gate (56-ft.)

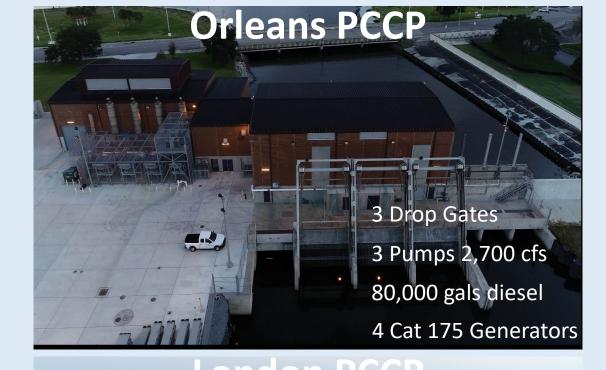


Bayou St. John Sector Gate (30-ft. non-navigable)

Permanent Pump Stations

Exclusive to Lake Pontchartrain
Cost to build \$600M+
Responsibility turned over to FPA in May 2018







Floodgate Closure Procedures

Barge Gate closure at surge barrier (IHNC) 96 hours ahead of event (Sooner if Fast moving Storm).

When surge is forecast to 5' at the surge barrier, contact USCG to initiate RNA, so surge barrier sector gate can be closed within 24 hours (followed by BB VLG and Seabrook). This is in accordance with USACE Water Control Plan.

Generally starting with floodgates with the lowest sills first, the exceptions are RR and highways, monitor and delay them as much we can.

Update public web site that lists floodgates and their status, open or closed.



Floodgate Closure Procedures continued...

Depending on size of storm and path, there are three tiers of closure.

- -up to +6.0', surge 2' to 4'
- -up to +8.0', surge 3' to 5'
- -close all gates

It takes 24 to 48 hours to close all floodgates prior to gale force winds in the area.

High Tide events impact four low sill gates of NOPB, 29/32, others monitored. Could impact lowest 12.

First floodgates closed for Ida

| Code | 8/25/21 Status | Current Status | Closure Date | Closure Time | Opening Date | Opening Time |
|--------|----------------|----------------|--------------|--------------|--------------|--------------|
| B-03 | OPEN | OPEN | 8/26/2021 | 8:25 AM | 8/31/2021 | 2:55 PM |
| A-03 | OPEN | OPEN | 8/26/2021 | 8:28 AM | 8/31/2021 | 1:30 PM |
| A-01 | OPEN | OPEN | 8/26/2021 | 9:02 AM | 8/31/2021 | 1:05 PM |
| B-01 | OPEN | OPEN | 8/26/2021 | 9:05 AM | 8/31/2021 | 3:10 PM |
| D-03 | OPEN | OPEN | 8/26/2021 | 9:47 AM | 8/31/2021 | 4:15 PM |
| D-05 | OPEN | OPEN | 8/26/2021 | 10:10 AM | 8/31/2021 | 4:35 PM |
| L-30 | OPEN | OPEN | 8/26/2021 | 1:40 PM | 8/30/2021 | 2:45 PM |
| E-11 | OPEN | OPEN | 8/26/2021 | 2:00 PM | 8/31/2021 | 10:50 AM |
| W-13 | OPEN | OPEN | 8/26/2021 | 2:15 PM | 8/31/2021 | 1:12 PM |
| N-03 | OPEN | OPEN | 8/26/2021 | 2:20 PM | 8/31/2021 | 4:05 PM |
| W-14 | OPEN | OPEN | 8/26/2021 | 2:21 PM | 8/31/2021 | 1:02 PM |
| W-15 | OPEN | OPEN | 8/26/2021 | 2:29 PM | 8/31/2021 | 12:42 PM |
| N-04 | OPEN | OPEN | 8/26/2021 | 2:38 PM | 8/31/2021 | 4:35 PM |
| S-02 | OPEN | OPEN | 8/26/2021 | 2:52 PM | 8/31/2021 | 12:21 PM |
| W-24 | OPEN | OPEN | 8/26/2021 | 2:52 PM | 9/7/2021 | 8:25 AM |
| W-25 | OPEN | OPEN | 8/26/2021 | 3:00 PM | 9/7/2021 | 9:15 AM |
| ER-05 | OPEN | OPEN | 8/26/2021 | 3:02 PM | 8/31/2021 | 12:45 PM |
| W-26 | OPEN | OPEN | 8/26/2021 | 3:10 PM | 9/2/2021 | 10:45 AM |
| X-06 | OPEN | OPEN | 8/26/2021 | 3:16 PM | 9/1/2021 | 10:34 AM |
| W-38 | OPEN | OPEN | 8/26/2021 | 3:20 PM | 8/31/2021 | 11:47 AM |
| OCW-01 | OPEN | OPEN | 8/26/2021 | 3:28 PM | 8/31/2021 | 12:15 PM |
| M-03 | OPEN | OPEN | 8/26/2021 | 3:30 PM | 8/30/2021 | 5:55 PM |
| M-04 | OPEN | OPEN | 8/26/2021 | 3:48 PM | 8/30/2021 | 5:45 PM |
| M-05 | OPEN | OPEN | 8/26/2021 | 4:07 PM | 8/30/2021 | 5:38 PM |
| S-06 | OPEN | OPEN | 8/26/2021 | 9:15 PM | 9/1/2021 | 11:30 AM |
| OHV-19 | OPEN | OPEN | 8/27/2021 | 7:45 AM | 8/31/2021 | 12:25 PM |
| C-03 | OPEN | OPEN | 8/27/2021 | 8:00 AM | 9/1/2021 | 1:50 PM |
| OHV-18 | OPEN | OPEN | 8/27/2021 | 8:15 AM | 8/31/2021 | 12:20 PM |
| W-01 | OPEN | OPEN | 8/27/2021 | 8:25 AM | 8/31/2021 | 1:41 PM |
| A-02 | OPEN | OPEN | 8/27/2021 | 8:30 AM | 8/31/2021 | 1:15 PM |
| Z-01 | OPEN | OPEN | 8/27/2021 | 8:30 AM | 8/30/2021 | 2:15 PM |
| Z-03 | OPEN | OPEN | 8/27/2021 | 8:30 AM | 9/1/2021 | 10:30 AM |
| W-03 | OPEN | OPEN | 8/27/2021 | 8:50 AM | 8/31/2021 | 1:23 PM |
| N-05 | OPEN | OPEN | 8/27/2021 | 8:58 AM | 8/31/2021 | 4:38 PM |
| E-04 | OPEN | OPEN | 8/27/2021 | 9:22 AM | 8/31/2021 | 1:15 PM |
| OHV-23 | OPEN | OPEN | 8/27/2021 | 9:30 AM | 9/1/2021 | 12:00 PM |