

**Location:**

Morgan City, LA, United States

**Date of Completion:**

April 2015

**Market:**

Power - Conventional

**Job Size:**

20,000 Square Feet

**Owner:**

Louisiana Energy & Power Authority

**Engineer:**

Robins & Morton  
(Power & Industrial Division)

**Fabricator:**

Erected Steel Products of Alabama

**Painting Contractor:**

Champion Painting  
Fort Lauderdale, FL

## Raw Water & Service Water Tanks

**Area Coated: Tank Lining**

*Substrate: Ferrous Metal (Carbon Steel)*

*Exposure: Water Immersion - Raw Water & Service Water*

*Surface Prep: SSPC-SP 10 (Near White Blast)*

- Carboguard 891 HS

**Area Coated: Tank Exterior Components**

*Substrate: Ferrous Metal (Carbon Steel)*

*Exposure: Water Immersion - salt water or wastewater*

*Surface Prep: SSPC-SP 10 (Near White Blast)*

- Carbozinc 11 (Shop Primer)
- Carbozinc 859 (Field Touch-Up for Welds and Damaged Areas)
- Carboguard 893
- Carbothane 134 HG

**Project Description:**

Robins & Morton was selected as the EPC contractor to design and construct a grassroots combined cycle plant for L.E.P.A. in Morgan City, LA.

Erected Steel Products of Alabama (ESP) was contracted by Robins & Morton to fabricate and erect two steel ground storage tanks for Raw Water storage and Service Water storage for the site. Champion Painting contracted with ESP to perform field preparation and coating of the interior lining and exterior portions of the tanks.

The exterior of the tank was shop blasted in accordance with SSPC-SP6 Commercial Blast Cleaning and primed with Carbozinc 11 at 3.0-5.0 mils DFT. Field finish painting was completed on the stripe coat, intermediate and finish coats.

The interior of the tank was field blasted to SSPC-SP10 Near White Metal Blast Cleaning standards and lined with 2 coats of Carboguard 891 HS applied at 5.0-7.0 mils DFT/coat (10.0-14.0 mils DFT total) with a stripe coat on the welds and sharp edges.

### ***Coating Selection Explanation:***

The exterior coating system was selected for ease of application for the shop primer (Carbozinc 11) and in the field for the welds and touch-ups (Carbozinc 859), intermediate coat (Carboguard 893) and finish coat (Carbothane 134 HG). Meets requirement for AWWA Outside Coating System #6.

Carboguard 891 HS was chosen as the interior coating system for the ease of application, along with the high solids content (85% SBV), low VOC content and approved per NSF Standard 61 as required in the specification. Meets requirement for AWWA Inside Coating System #1.





