

ENERGY OPERATIONS – SHAW GROUP  
DESIGN-BUILD: GRAND GULF  
NUCLEAR RADIAL WELL #6  
PORT GIBSON, MISSISSIPPI



## Project Description

This was a Design-Build Project for the design and construction of Well #6. The well is capable of supplying an additional 10,000 GPM to the existing Plant Service Water (PSW) system. The work consisted of the following major items:

- 20' I.D., 25' O.D reinforced concrete caisson 153' in depth.
- (10) 12" Screened laterals with gate valves and an average length of 200' each for a total of 2000 linear feet. Each lateral was constructed of 12-inch diameter 304 stainless steel, prepacked wire wound screen for maximum efficiency and durability.
- Pumping Station: 32' x 32' x 16' tall pre-engineered metal building construction designed to match existing pump house structures. Includes (2) vertical turbine pumps each rated at 5,000 gpm @ 400' TDH with 600 HP, 4160 V, 1200 RPM motors.
- Pump discharge piping
- Raw Water Supply Line: based on 2500 LF of 30-inch, Ductile Iron Pipe, PC 250, installed at 10-foot minimum cover
- Electrical system: features include a motor control center with "soft starts". 4.16 kV PSW motor starters and motor protective devices and a local power transformer.

## At a Glance

Contract Amount:  
\$14.9M

Notice to Proceed:  
December 14, 2009

Completion Date:  
July 25, 2012

MGD:  
14.4

Owner:  
Energy Operations, Inc. C/O  
The Shaw Group

Engineer:  
Burns & McDonnell