

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:

- Pumping Station: Building construction is of pre-engineered metal to match existing pump house structures. (2) vertical turbine pumps with an enclosed line shaft, a bearing lube oil system, an anti-reverse rotation ratchet in the pump motor, and a casing air release/vacuum breaker valve, each rated at 5,000 gpm @ 400' TDH. Also 600 HP, 4160 V, 1200 RPM motors, 145 feet of column pipe, and 3 stage vertical turbine,
- Pump discharge piping
- Raw Water Supply Line: based on 2500 LF of 30", DIP, PC 250, installed at 10-foot minimum cover
- Electrical system
- 20' I.D., 25' O.D reinforced concrete caisson 153' in depth. Caisson internals, including pipe / tube supports.
- (10) 12" Screened laterals with gate valves and an average length of 200' each for a total of 2000 LF

## At a Glance

Contract Amount:  
\$14.9 M

Notice to Proceed:  
December 14, 2009

Completion Date:  
July 25, 2012

MGD:  
14.4

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

Engineer Contact Info:  
Burns & McDonnell