

St. Johns River Power Park (SJRPP) Stack

Interesting Facts

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- The stack is 640 feet high
- The outer shell is made of reinforced concrete
- It is 78 feet in diameter at the bottom and 64'-9" at the top
- The walls are 21 inches thick at the bottom and 12-1/2 inches thick at the top
- The stack shell weighs 14,325 tons
- The foundation for the stack is made of reinforced concrete and is 10 feet thick
- Each of the 2 chimneys is made of 650,000 acid-resistant bricks
- The bricks are held in place with acid-resistant mortar
- The chimneys are 31'-2" in diameter at the bottom and 22'-4" at the top
- The walls are 20 inches thick at the bottoms and 8 inches at the tops
- Each chimney weighs 4,300 tons
- A two-person cage-type elevator is included on the inside of the shell
- Vertical ladders are also included for the entire height of the stack
- The area between the shell and the chimneys is pressurized with fresh air in case of a chimney leak
- A small building pressurized with fresh air and air conditioned is located at the elevation with the CEMs for Maintenance personnel to perform work on the systems
- The aviation warning lights are equipped with a "night" setting which reduces intensity