



St. Lucie



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Safety Information

Built in a low-risk seismic zone: St. Lucie is located in the lowest hazard zone for earthquakes according to the U.S. Geological Survey (USGS).

Constructed to withstand earthquakes:

The plant is designed to withstand earthquakes and other natural events stronger than ever recorded in the region.

Protected from flooding: The plant is elevated 20 feet above sea level to protect against flooding and extreme storm surges. The plant successfully withstood the back-to-back impact of Hurricanes Frances and Jeanne in 2004.

Designed with multiple safety systems:

Redundant safety systems include:

- » Four diesel generators that are protected by a concrete and steel-reinforced building
- » Additional reactor cooling system powered by steam generated by the plant itself
- » Back-up batteries for critical safety systems are stored on-site
- » External cooling options (i.e. injection and fire pumps) are pre-staged onsite; can use ocean water for cooling

Seven-day power supply: Safety and cooling systems can be powered for seven days without requiring any offsite power or additional fuel.

Highly trained plant operators: For one full week out of every six weeks, plant operators must prove their ability to safely operate the plant in a variety of worst-case scenarios that include earthquakes, severe storms, flooding, loss-of-power, and loss of reactor core cooling.

General Information

St. Lucie Nuclear Plant is located on Hutchinson Island, midway between Fort Pierce and Stuart. The plant is situated on a 1,132-acre tract of land. Approximately one quarter of the site is used for generating electricity. The remainder of the property consists of mangrove swamps, marsh and beaches. This wealth of natural habitat has allowed FPL to support a variety of environmental activities.

» **Workforce**

820 during normal operations; 4,000 on-site during scheduled refueling outages.

» **Salaries**

Approximately \$67 million annually.

» **Property taxes paid**

Approximately \$16.6 million annually.

» **Construction license granted**

Unit 1: July 1970
Unit 2: May 1977

» **Operating license issued**

Unit 1: March 1976
Unit 2: April 1983

System Information

PRIMARY SYSTEM	
Reactor Type	Two Combustion Engineering Pressurized Water Reactors with a net electrical output of 1,678 MWe
Reactor Core	217 fuel assemblies
Reactor Vessel	42' high; 172" inside diameter; 8.7" thickness
Reactor Containment Buildings	Concrete and steel construction 3' thick; 154' diameter; 243' height
SECONDARY SYSTEM	
Turbine	Westinghouse Electric Corp.

For More Information:

- www.nei.org
- www.nrc.gov
- www.radiationanswers.org
- www.epa.gov
- www.NextEraEnergyResources.com