

St. Lucie



SITE ADDRESS

6501 South Ocean Drive
Jensen Beach, FL 34957

CORPORATE MEDIA LINE

(561) 694-4442

Safety Information

Constructed to withstand hurricanes, protected from flooding: The plant is designed to withstand hurricanes and other natural events stronger than ever recorded in the region. 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 on-site; 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.

Committed to protecting wildlife: There are about 180 species of birds and animals that inhabit the St. Lucie Plant property in our wildlife preserve. Of these, 36 are endangered or threatened.

Sea turtles return annually to nest on isolated plant beaches. We are committed to:

- » Protecting sea turtles and assisting research institutions in data collection
- » Providing nesting surveys (since 1971) on 21 miles of adjacent beach property
- » Conducting turtle walks for the public during the summer to observe nesting sea turtles

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

700 during normal operations; approximately 1,000 additional during scheduled refueling outages

» Salaries

Approximately \$67 million annually

» Property taxes paid

Approximately \$24 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 1,821 MWe
Reactor Core	217 fuel assemblies
Reactor Vessel	42' high; 172" inside diameter; 8.7" thickness
Reactor Containment Building	Concrete and steel construction 3' thick; 154' diameter; 243' height

SECONDARY SYSTEM

Turbine/Generator	Westinghouse Electric Corp.
Cooling System	Cooling water is pulled from the Atlantic Ocean

For More Information:

fpl.com/nuclear
nexteraenergy.com
nrc.gov