NEXTera® ENERGY SEABROOK

Fact Sheet

# Seabrook


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## Safety Information

**Built in a low-risk seismic zone:** Seabrook is located in one of the lowest hazard zones for earthquakes according to the U.S. Geological Survey (USGS).

**Constructed to withstand earthquakes:** The plant is designed to withstand the force of the earthquake that hit the Japanese plants, which is significantly higher than any recorded earthquake in New England history.

**Protected from flooding:** The plant is located two miles inland and elevated 20 feet above sea level to protect against flooding and extreme storm surges.

**Designed with multiple safety systems:** Redundant safety systems include:

» Two diesel generators protected by a concrete and steel-reinforced building, and a separate Supplemental Emergency Power System with two diesel engines

» 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.

## System Information

| PRIMARY SYSTEM | |
|---|---|
| Reactor Type | Westinghouse Pressurized Water Reactor |
| Reactor Core | 193 fuel assemblies |
| Reactor Vessel | 44' high; 15' wide |
| Reactor Containment Building | Double-dome concrete and steel construction. Outer dome 15" thick; inner dome 4.5' thick; outside height 180'; inside diameter 140’ |
| **SECONDARY SYSTEM** | |
| Turbine/Generator | General Electric |
| Cooling Tunnels | Two 3-mile-long tunnels carry water to and from the Atlantic Ocean |

## General Information

Seabrook Station is located on 900 acres on the seacoast of southern New Hampshire. The plant is operated in a highly-responsible manner and is dedicated to protecting the environment while meeting the energy needs of New England. Seabrook Station is one of only a few nuclear power plants in this country that is ISO 14001 certified, recognizing the plant’s leadership and excellence in environmental stewardship.

» **Workforce**
1,100 during normal operations; 2,100 on-site during scheduled refueling outages.

» **Salaries**
Approximately $100 million annually.

» **Economic impact**
$10 million annually.

» **Property taxes paid**
Approximately $20 million annually.

» **Construction Permit granted**
June 1976

» **Commercial operation began**
August 1990

For More Information:

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