

**PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE - PNO-II-16-002**

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. Some of the information may not yet be fully verified or evaluated by the Region II staff (Atlanta, GA)

**Facility**

NextEra Energy  
St. Lucie, Units 1 and 2  
Port St. Lucie, FL  
Docket: 50-335, 50-389

**Licensee Emergency Classification**

☒ Notification of Unusual Event  
☐ Alert  
☐ Site Area Emergency  
☐ General Emergency  
☐ Not Applicable

SUBJECT: SHUTDOWN GREATER THAN 72 HOURS DUE TO NATURAL PHENOMENA  
(HURRICANE MATTHEW)

On October 6, 2016 at approximately 1115 hours, St. Lucie Nuclear Station, Unit 2, performed a controlled shutdown and manually tripped the unit from 25% power as part of the normal shutdown procedure. At the time of this report Unit 2 was cooling down and was in Mode 4. There were no complications during the reactor trip.

This shutdown was part of the licensee's emergency plan requirements for Hurricane response. The Hurricane Shutdown Criteria for a Category 1, 2, or 3 hurricane expected to hit the site, was to place the units in Mode 3 at least 2 hours before the onset of hurricane force winds. For a Category 4 or 5 hurricane expected to hit the site, the units would be placed in Mode 5 at least 2 hours before the onset of hurricane force winds.

On September 26, 2016, Unit 1 started a refueling outage and is presently in Mode 6 with a time to boil of approximately 11.8 hours. The Licensee stopped all outage activities on October 4, 2016 and transitioned to full time storm preparations. The reactor core is in the vessel and the refueling cavity is filled to refueling level (60 ft). The refueling cavity is isolated from the spent fuel pool.

Resident inspectors are closely monitoring the licensee's activities.

The State of Florida has been informed.

Region II Incident Response Center is staffed. The Agency entered Monitoring Mode at 1710 hours on October 6, 2016.

The information presented herein is current as of 1730 hours on October 6, 2016.

ADAMS ACESSION NUMBER: ML 16281A506

Contacts: Lundy Pressley  
(404) 997-4621  
[Lundy.Pressley@nrc.gov](mailto:Lundy.Pressley@nrc.gov)

LaDonna Suggs  
(404)-997-4539  
[Ladonna.Suggs@nrc.gov](mailto:Ladonna.Suggs@nrc.gov)

Mark Miller  
(404) 997-4601  
[Mark.Miller@nrc.gov](mailto:Mark.Miller@nrc.gov)