January 22, 2008

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE – PNO-I-08-001

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I , King of Prussia, PA, staff on this date.

Facility	**License Emergency Classification**
Florida Power & Light Energy	_____Notification of Unusual Event
Seabrook 1	_____Alert
Seabrook, NH	_____Site Area Emergency
Docket: 050-00443	_____General Emergency
License: NPF-86	__X__Not Applicable

SUBJECT: UNPLANNED SHUTDOWN GREATER THAN 72 HOURS RESULTING FROM AUTOMATIC REACTOR TRIP DUE TO GROUND FAULT ON 345KV LINE

DESCRIPTION:

On January 19, at 11:02 pm, Seabrook experienced an electrical fault on the 345kV bus 3 between the main generator step-up transformer and the switchyard supply breakers. The protective logic automatically isolated the fault by opening the main generator output breaker and the 345 kV switchyard breakers. This resulted in a loss of one of the two independent offsite power supplies to the site and caused a turbine trip and subsequent reactor trip.

All safety systems initially responded as expected. However, following the automatic emergency feedwater start, two of the four steam generator emergency feedwater supply lines isolated on high flow. Operators immediately responded in accordance with procedures and manually unisolated the lines with no loss of level control in the steam generators. The resident inspectors responded to the site shortly after the event and confirmed that safety systems responded as expected, the plant was stable and no Emergency Action Level conditions were met. Region I is currently evaluating reactive inspection criteria.

Florida Power & Light (FPL) Energy has identified the cause of the event as a faulted disconnect on the 345 kV bus. FPL Energy placed the plant in cold shutdown as of 9:25 am on January 22 to make repairs. FPL Energy is currently evaluating the scope of extent of condition inspections for the failed disconnect. The post-trip review is still in progress and FPL Energy is also investigating the cause of several unexpected non-safety-related system responses during the event. These included the failure of a non-safety related bus to automatically transfer to the alternate off-site power supply, and the trip of all four reactor coolant pumps during the automatic transfer to the alternate off-site power source. The resident inspectors will continue to closely follow FPL Energy's cause analysis, troubleshooting and repair activities, and will assess the results of FPL Energy's post-trip review upon completion.

The State of New Hampshire and the Commonwealth of Massachusetts were both informed of the event by the NRC.

Region I received initial notification of this occurrence by a telephone call to the resident inspector from FPL Energy at 11:32 pm on January 19. The information presented herein has been discussed with FPL Energy, and is current as of 10:00 am, January 22, 2008. This PN will be updated upon plant restart.

ADAMS ACCESSION NUMBER: ML080230034

CONTACTS:

Art Burritt	William Raymond
610-337-5069	603-935-5151
alb1@nrc.gov	wjr@nrc.gov

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Region I Public Affairs is prepared to respond to media inquiries.

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