



**FPL Energy**  
**Seabrook Station**

FPL Energy Seabrook Station  
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**MAR 25 2004**

Docket No. 50-443  
NYN-04027

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555-0001

- Reference:
1. FPLE Seabrook Letter NYN-03069, Seabrook Station License Amendment Request 03-01, "Changes to Electrical Power Systems – A.C. Sources Technical Specifications – Inclusion of the Supplemental Emergency Power System," dated August 25, 2003.
  2. FPLE Seabrook Letter NYN-04005, "Response to Request for Additional Information Regarding License Amendment Request 03-01," dated February 9, 2004.

Seabrook Station  
"Response to Request for Additional Information  
Regarding License Amendment Request 03-01"

FPL Energy Seabrook, LLC (FPLE Seabrook) has enclosed herein its response to a request for additional information associated with License Amendment Request (LAR) 03-01. The additional information requested by the NRC is associated with FPLE Seabrook's planned installation of a permanent non safety-related supplemental emergency power system (SEPS).

Should you have any questions concerning this response, please contact Mr. James M. Peschel, Regulatory Programs Manager, at (603) 773-7194.

Very truly yours,

FPL ENERGY SEABROOK, LLC

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Mark E. Warner  
Site Vice President

A001

Cc: H. J. Miller, NRC Region I Administrator  
V. Nerses, NRC Project Manager, Project Directorate I-2  
G. T. Dentel, NRC Senior Resident Inspector

Mr. Bruce Cheney, Director  
New Hampshire Office of Emergency Management  
State Office Park South  
107 Pleasant Street  
Concord, NH 03301

### OATH AND AFFIRMATION

I, Mark E. Warner, Site Vice President of FPL Energy Seabrook, LLC, hereby affirm that the information and statements contained within this response to the Request for Additional Information to License Amendment Request 03-01 are based on facts and circumstances which are true and accurate to the best of my knowledge and belief.

Sworn and Subscribed  
before me this  
25 day of March, 2004

Michael O'Keefe  
Notary Public

Mark E. Warner  
Mark E. Warner  
Site Vice President



**Enclosure to NYN-04027**

**Response to Request for Additional Information  
Seabrook Station, Unit No. 1  
(TAC NO. MC0635)**

- 1      What is the “at power, 14 day Allowed Outage Time” Incremental Conditional Core Damage Probability and Incremental Conditional Large Early Release Probability for the configuration of two Emergency Diesel Generators (EDGs) and one Supplemental Emergency Power Supply diesel, and then having one of the EDGs become inoperable?

**Response:**

The at power, internal events Incremental Conditional Core Damage Probability (ICCDP) for the 14 day AOT case (One EDG and SEPS diesels available, one EDG unavailable) is  $5.76 \times 10^{-7}$ . The at power, internal events Incremental Conditional Large Early Release Probability (ICLERP) for the 14-day AOT case is  $1.29 \times 10^{-9}$ . These results were produced using a  $1 \times 10^{-14}$  truncation level.

The small increase in ICCDP is generally offset by an approximate  $3.2 \times 10^{-7}$  decrease in ICCDP at shutdown since routine EDG maintenance will not be performed during refueling outages if a 14 day AOT is granted. The very low ICLERP is expected since Large Early Release Fraction (LERF) at Seabrook is dominated by containment bypass events, and not strongly influenced by AC power availability.

The addition of the Supplemental Emergency Power Supply (SEPS) diesels results in an approximate 30% overall decrease in core damage frequency.

- 2      Specifically list all external events included in the Probability Risk Assessment (PRA).

**Response:**

The full power portion of the Seabrook Station integrated PRA model is a full scope level 2 model. External events are evaluated through the probabilistic modeling (i.e. fire PRA, seismic PRA, etc). There are a total of 32 specific external initiating events included in the Seabrook PRA model. These individual initiating events are grouped into the following categories:

- Internal Fires
- Seismic Events
- External Flooding
- Transportation / Chemical
- Aircraft Crash (Screened out)
- High Winds/Tornado (Screened out)
- Turbine Missile Impacts (Screened out)

**Note:** Weather related loss of offsite power is grouped w/ Internal Initiating events.

3 How do you plan to resolve the 5 remaining PRA significant comments from the October 1999 Peer review.

**Response:**

FPLE Seabrook plans to resolve these comments, as suggested by the peer reviewers, by 2007. None of the peer review comment resolutions are expected to affect the results of the SEPS license amendment since any modeling changes would equally affect both the base model and the AOT change case.

4 What in this license amendment request does the Maximum Ice Loading of 1-inch radial reference?

**Response:**

This condition was included in the specification for the SEPS equipment. It applies to overhead electrical distribution wiring. However, based on the final design of SEPS it is not applicable since there is no overhead wiring.