

September 7, 2007

Mr. Gene F. St. Pierre
Site Vice President
c/o James M. Peschel
Seabrook Station
Seabrook, NH 03874

SUBJECT: SEABROOK STATION, UNIT NO. 1 - EVALUATION OF FINITE ELEMENT ANALYSIS IN SUPPORT OF ALLOY 82/182 PRESSURIZER BUTT WELD INSPECTIONS IN 2008 AS PROVIDED BY CONFIRMATORY ACTION LETTER NRR-07-001 (TAC NO. MD4183)

Dear Mr. St. Pierre:

On March 12, 2007, the U.S. Nuclear Regulatory Commission (NRC) issued Confirmatory Action Letter (CAL) No. NRR-07-001 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML070610585) regarding dissimilar metal welds in the pressurizer surge, spray, and safety/relief nozzle-to-safe end welds at Seabrook Unit No. 1. The CAL and the supporting commitment letter (ADAMS Accession No. ML070530548) indicate that inspection and mitigation actions may be conducted during your spring 2008 refueling outage, contingent on the industry providing an analysis that demonstrates an acceptable level of safety to the NRC for the operation of these welds until the spring of 2008. This letter acknowledges receipt of your letter dated August 2, 2007 (ADAMS Accession No. ML072220071), informing the NRC that the analysis referred to by this CAL and the supporting commitment letter has been completed, and that the analysis is applicable to your plant.

The NRC received MRP-216, Rev. 1, "Materials Reliability Program: Advanced FEA [Finite Element Analysis] Evaluation of Growth of Postulated Circumferential PWSCC [Primary Water Stress-Corrosion Cracking] Flaws in Pressurizer Nozzle Dissimilar Metal Welds" on August 13, 2007 (ADAMS Accession No. ML072410235). Based on our review of this report, the NRC concludes that the analysis provides adequate justification to permit inspections during your spring 2008 refueling outage, and that the analysis is applicable to Seabrook Unit No. 1. The results of the staff's review are contained in a safety assessment dated August 31, 2007 (ADAMS Accession No. ML072400199), and the associated contractor report (ADAMS Accession No. ML072470394).

Based on the above, the NRC concludes that a plant shutdown by December 31, 2007, is no longer required. Therefore, the pressurizer surge, spray, and safety/relief nozzle-to-safe end Alloy 82/182 butt weld inspections for Seabrook Unit No. 1 must be performed prior to exiting your scheduled spring 2008 refueling outage. All other requirements of the CAL and the supporting commitment letter regarding enhanced inspection and leakage monitoring requirements for the reactor coolant system and associated reports remain valid.

The CAL will remain open until all CAL commitments pertaining to Seabrook Unit No. 1 are complete.

Current NRC guidance regarding CALs is contained in the NRC Enforcement Policy and the NRC Enforcement Manual, which are available at the NRC web site at <http://www.nrc.gov/about-nrc/regulatory/enforcement.html> (click on Enforcement Policy or Enforcement Guidance) or by contacting the Government Printing Office (GPO) toll-free at 1-888-293-6498. The GPO is open from 7:00 a.m. to 9:00 p.m. EST, Monday through Friday (except Federal holidays).

In accordance with Title 10 of the *Code of Federal Regulations*, Part 2, Section 390, of the NRC's "Rules of Practice," a copy of this letter will be made available electronically for public inspection in the NRC Public Document Room or from the NRC's document system (ADAMS), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm.html>.

Sincerely,

/ra/

Catherine Haney, Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

Docket No. 50-443

cc: See next page

Seabrook Station, Unit No. 1

cc:

Mr. J. A. Stall
Senior Vice President, Nuclear and
Chief Nuclear Officer
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. Peter Brann
Assistant Attorney General
State House, Station #6
Augusta, ME 04333

Resident Inspector
U.S. Nuclear Regulatory Commission
Seabrook Nuclear Power Station
P.O. Box 1149
Seabrook, NH 03874

Town of Exeter
10 Front Street
Exeter, NH 03823

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

Office of the Attorney General
One Ashburton Place, 20th Floor
Boston, MA 02108

Board of Selectmen
Town of Amesbury
Town Hall
Amesbury, MA 01913

Mr. Robert Poole
Federal Emergency Management Agency
Region I
99 High Street, 6th Floor
Boston, MA 02110

Mr. Tom Crimmins
Polestar Applied Technology
One First Street, Suite 4
Los Altos, CA 94019

John Giarrusso
Massachusetts Emergency Management Agency
400 Worcester Road
Framingham, MA 01702-5399

Ms. Kelly Ayotte, Attorney General
Mr. Orvil Fitch, Deputy Attorney General
33 Capitol Street
Concord, NH 03301

Mr. Christopher M. Pope, Director
Homeland Security & Emergency Mgmt.
New Hampshire Department of Safety
Bureau of Emergency Management
33 Hazen Drive
Concord, NH 03301

Mr. M. S. Ross, Managing Attorney
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. Rajiv S. Kundalkar
Vice President - Nuclear Technical Services
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

James M. Peschel
Regulatory Programs Manager
FPL Energy Seabrook, LLC
PO Box 300
Seabrook, NH 03874

Ms. Marjan Mashhadi
Senior Attorney
Florida Power & Light Company
801 Pennsylvania Ave., NW Suite 220
Washington, DC 20004

Seabrook Station, Unit No. 1

cc:

Mr. Mark E. Warner
Vice President, Nuclear Operations,
North Region
(Seabrook & Duane Arnold Plants)
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 33408-0420

Mr. Gene F. St. Pierre
Site Vice President
FPL Energy Seabrook, LLC
P.O. Box 300
Seabrook, NH 03874

Mr. Joseph Roy
Director of Operations
Massachusetts Municipal
Wholesale Electric Company
Moody Street
Ludlow, MA 01056

Mr. Don E. Grissette
Vice President, Nuclear Training and
Performance Improvement
Florida Power & Light Company
P.O. Box 14000
Juno Beach, FL 3340

Mr. Michael W. Kiley
Plant General Manager
FPL Energy Seabrook, LLC
P.O. Box 300
Seabrook, NH 03874

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Sincerely,

/ra/

Catherine Haney, Director
Division of Operating Reactor Licensing
Office of Nuclear Reactor Regulation

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cc: See next page

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