



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

FPL Energy Seabrook Station  
 P.O. Box 300  
 Seabrook, NH 03874  
 (603) 773-7000

*sent  
 certified  
 rec'd  
 6/20/08*

June 18, 2008

Docket No. 50-443  
 SBK-L-08103

U.S. Nuclear Regulatory Commission  
 Attn.: J. E. Dyer, Director  
 Office of Nuclear Reactor Regulation  
 One White Flint North  
 11555 Rockville Pike  
 Rockville, MD 20852-2837

Seabrook Station

Notification of Completed Actions and Commitments Addressed in Confirmatory Action Letter  
 In Regard to Alloy 82/182 Butt Welds in the Pressurizer at Seabrook Unit No. 1

Reference: NRC CAL No. NRR-07-001, Confirmatory Action Letter, Seabrook Station,  
 Unit No. 1, dated March 12, 2007.

FPL Energy Seabrook, LLC (FPL Energy Seabrook) has completed the actions and commitments addressed in the above reference. FPL Energy Seabrook is providing in the enclosure to this letter the results of the pressurizer butt weld inspections and mitigation actions.

Should you have any questions regarding the examination results, please contact Michael Ossing, Engineering Support Manager, at (603) 773-7512.

Sincerely,

FPL Energy Seabrook, LLC

*Gene St Pierre*

Gene St. Pierre  
 Site Vice President

cc: S.J. Collins, NRC Region I Administrator  
 G.E. Miller, NRC Project Manager, Project Directorate I-2  
 W.J. Raymond, NRC Senior Resident Inspector

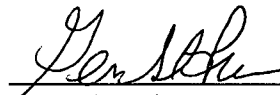
*A001  
 A110 NRR  
 Rec'd JCD  
 8/13/08*

OATH AND AFFIRMATION

I, Gene St. Pierre, Site Vice President of FPL Energy Seabrook, LLC, hereby affirm that the information and statements contained within this Notification of Completed Actions and Commitments Addressed in Confirmatory Action Letter NRR-07-001 are based on facts and circumstances which are true and accurate to the best of my knowledge and belief.

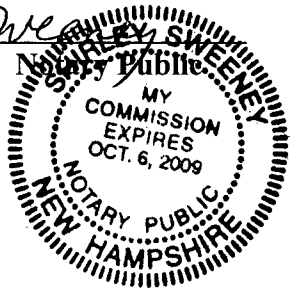
Sworn and Subscribed  
before me this

18<sup>th</sup> day of June, 2008



Gene St. Pierre  
Site Vice President





**ENCLOSURE TO SBK-L-08103**



Location	PT of Base Metal Results	PT of Barrier Layer and In-Process Repair Results	Post Overlay Surface Exam Results	Post Overlay UT Exam Results
PZR C Safety Nozzle	NRI	NRI, Barrier Layer PT of SWOL excavation to remove volumetric (UT) indication - NRI	NRI prior to excavation of volumetric indications  NRI after volumetric indication removal	One circumferential lack of bond indication was reported in the nozzle radius to taper transition area. The indication dimensions and disposition is below.  Ind. # 1 – 13.2”L x .40”W, Reject  Indication # 1 excavated and repaired. The UT of the repair area was acceptable. Two lack of bond indications were reported, their dimensions are listed below  Ind. # 1 – .50”L x .30”W Ind. # 2 - .40”L x .30”W  UT examination achieved full coverage of both the ISI and PSI examination volumes
PZR D Safety Nozzle	NRI	NRI, Barrier Layer PT of SWOL excavation to remove volumetric (UT) indication - NRI	NRI prior to excavation of volumetric indications  NRI after volumetric indication removal	Two circumferential lack of bond indication were reported. One was at the nozzle radius to taper transition area and the other was over the safe end material at the interface of the weld overlay and the base material. Below are the dimensions and dispositions of the indications.  Ind. # 1 – 4.7”L x .30”W, Reject Ind. # 2 – 29.0”L(360°) x .40”W, Reject  Indications # 1 & # 2 excavated and repaired. The UT of the repair areas was acceptable. Two lack of bond indications were reported, their dimensions are listed below  Ind. # 1 – .70”L x .20”W Ind. # 2 - .70”L x .20”W  UT examination achieved full coverage of both the ISI and PSI examination volumes
PZR Spray Nozzle	NRI	NRI	NRI	The UT exam was acceptable. Three indications were recorded in the original dissimilar metal weld base material. These indications are below the ISI examination volume.  UT examination achieved full coverage of both the ISI and PSI examination volumes.

Location	PT of Base Metal Results	PT of Barrier Layer and In-Process Repair Results	Post Overlay Surface Exam Results	Post Overlay UT Exam Results
PZR Surge Nozzle	NRI	<p>NRI, Barrier Layer</p> <p>PT of SWOL excavation to remove volumetric (UT) indication - NRI</p>	<p>NRI prior to excavation of volumetric indications</p> <p>NRI after volumetric indication removal</p>	<p>Four circumferential indications were reported/recorded. One was a lack of bond (LOB) and the other three were located within the original dissimilar metal weld base material outside the ISI examination volume. Below are the dimensions and dispositions of the indications.</p> <p>Ind. # 1 – 51.8'L (360°)x .30"W, Reject</p> <p>Ind. # 2, # 3 and # 4 were recorded for future reference and were not evaluated.</p> <p>Indication # 1 excavated and repaired. The UT of the repair was acceptable.</p> <p>UT examination achieved full coverage of both the ISI and PSI examination volumes.</p>

### Mitigation Summary

The Seabrook Station pressurizer has six piping nozzle welds that were originally made with alloy 82/182 material as identified in the table below. During OR12 refueling outage all six piping nozzles were mitigated using alloy 52 by the method shown below.

Nozzle		Mitigation Completed	Mitigation Performed
Function/Designation	Susceptible Material Description	Outage Designation	
Surge "S" Line # RC-49-01	Nozzle to safe end weld only	OR12	Structural Weld Overlay
Spray "SP" Line # RC-48-03	Nozzle to safe end weld only	OR12	Structural Weld Overlay
Safety "A" Line # RC-74-01	Nozzle to safe end weld only	OR12	Structural Weld Overlay
Relief "B" Line # RC-80-01	Nozzle to safe end weld only	OR12	Structural Weld Overlay
Safety "C" Line # RC-75-01	Nozzle to safe end weld only	OR12	Structural Weld Overlay
Safety "D" Line # RC-76-01	Nozzle to safe end weld only	OR12	Structural Weld Overlay