



FPL Energy
Seabrook Station

FPL Energy Seabrook Station
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Docket No. 50-443

SBK-L-06070

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

Seabrook Station
Reactor Vessel Surveillance Capsule Report

FPL Energy Seabrook, LLC has enclosed a copy of WCAP-16526-NP "Analysis of Capsule V from FPL Energy Seabrook Unit 1 Reactor Vessel Radiation Surveillance Program". This report provides the adjusted reference temperature for nil ductility transition (RT_{NDT}) and fluence calculations for reactor vessel plate, weld, and heat affected zone material that was contained in capsules U, Y and V. This report is submitted pursuant to the requirements of 10 CFR 50.60(a) and 10 CFR Part 50 Appendix H, Reactor Vessel Material Surveillance Program Requirements, paragraph I.A..

WCAP-16526 concludes that the adjusted RT_{NDT} values for the Seabrook Station reactor vessel materials, based on the surveillance capsule data are within the Regulatory Guide 1.99 Revision 2 predictions. The embrittlement and fluence projections were evaluated and the current Technical Specification PT limit curves and LTOP analysis remain conservative and valid for the current 20 EFPY period of applicability. Therefore, no changes to Seabrook Station Technical Specification pressure-temperature limits or the operating procedures are required

The embrittlement calculations in WCAP-16526-NP for the non-limiting beltline welds include updated chemistry values as reported in SBK-L-06071.

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

Very truly yours,
FPL Energy Seabrook, LLC


Gene St. Pierre
Site Vice President

Enclosure

cc: S. J. Collins, NRC Region I Administrator
G. E. Miller, NRC Project Manager
G. T. Dentel, NRC Resident Inspector