

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

JUL 2 9 2005

Docket No. 50-443 SBK-L-05145

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

Seabrook Station Inservice Inspection Examination Report

Enclosed is the FPL Energy Seabrook, LLC Inservice Inspection Examination Report for inspections conducted prior to and during the tenth refueling outage that concluded on May 3, 2005. The enclosed report is submitted pursuant to the requirements of paragraph IWA-6240 of the 1995 Edition (including the 1996 addenda) of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code. Additionally, a copy of this letter and the enclosed report are being submitted to the State of New Hampshire.

Should you have any questions regarding this information, please contact Mr. Michael Ossing, Engineering Support Manager, at (603) 773-7512.

Very truly yours,

FPL Energy Seabrook, LLC

Gene F. St. Pierre

Site Vice President

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cc: S. J. Collins, NRC Region I Administrator
 V. Nerses, NRC Project Manager, Project Directorate I-2
 G.T. Dentel, NRC Senior Resident Inspector

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Wayne Brigham, Boiler Inspector New Hampshire Department of Labor Inspection Division PO Box 2076 Concord, NH 03302-2076 Enclosure to SBK-L-05145

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|---|---|--|--|--|---|
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| Report Number: | ISI-SBK-2 | 2005 | - | | |
| Owner: | FPL Ener | zy Seabrook, LLC | | | |
| | P.O. Box | 14000 | | | |
| | | rrse Boulevard h, FL 33408-0420 | | | |
| Plant: | | zy Seabrook | | | |
| | P.O. Box | 300 💶 🐪 | | | |
| | Seabrook, | NH 03874 | | | |
| Unit No. 1 | <u> </u> | Commercial service date | August 19, 1990 | Refueling outage no. | OR10 |
| • •• | licable) | | | | |
| Current inspection | interval | | | | <u></u> |
| | | (1 [∎] , 2 nd , | 3 rd , 4 th , other) | | |
| Current inspection | period | | | | |
| | | (1 ^{**} , | , 2 nd , 3 rd) | | |
| Edition and Adden | ida of Sectio | n XI applicable to the inspect | ion plan 1995 Edit | ion with 1996 Addenda | |
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| | finenection | nian March 23, 2005, Rev | ision 09 | | |
| Date and revision (| ofinspection | plan <u>March 23, 2005 Rev</u> | ision 09 | | <u></u> |
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| | | | SBK - 2 | nd Interval, 2 nd Period | |
|-------------------------|---|--|---|--|--|
| Examination Category | Total Examinations Required for The Interval | Total Examinations Credited for This Period | Total Examinations Credited (%) For The Period | Total Examinations Credited (%) To Date for The Interval | Remarks |
| B-A | 24 | 0 | 0% | 17% | Percentage acceptable per IWB-2412 (a)(2). Relief Request 2IR-1 applied. |
| B-B | 5 | 1 | 100% | 60% | Relief Request 2IR-2 applied. |
| B-D | 44 | 10 | 100% | 36% | Percentage acceptable per IWB-2412 (a)(2). Relief Request the 2IR-2 applied. |
| B-F | Included in the Ris | sk-Informed ISI Pro | gram. | | See Category R-A. |
| B-G-1 | 241 | 54 | 50% | 45% | |
| B-G-2 | 74 | 11 | 46% | 49% | |
| B-H | Category B-H iten | ns are included with | Category B-K. | | · · · · · · · · · · · · · · · · · · · |
| B-J | Included in the Ris | sk-Informed ISI Pro | gram. | | See Category R-A. |
| B-K | 1 | 0 | 0% | 0% | Percentage acceptable per IWB-2412 (a)(5). Relief Request 2IR-12 applied. |
| B-L-1 | There are no B-L- | 1 pump casing weld | ls. | | |
| B-L-2 | 1 | 0 | 0% | 0% | Percentage acceptable per IWB-2412 (a)(4). |
| B-M-1 | There are no B-M- | -1 valve body welds | 5. | | |
| B-M-2 | 6 | 0 | 0% | 50% | Percentage acceptable per IWB-2412 (a)(4). One of each group required when disassembled. |
| B-N-1 | 3 | 0 | 0% | 33% | Percentage acceptable per IWB-2412 (a)(3). |
| B-N-2 | 6 | 0 | 0% | 0% | Percentage acceptable per IWB-2412 (a)(3). |
| B-N-3 | 1 | 0 | 0% | 0% | Percentage acceptable per IWB-2412 (a)(3). |
| B-O | 2 | 0 | 0% | 50% | Percentage acceptable per IWB-2412 (a)(3). |
| B-P | 7 | 1 | 100% | 57% | Required each refueling outage. |
| B-Q | Steam Generator t | ubing is examined i | n accordance with Pla | nt Technical Specific | ations. |
| C-A | 16 | 0 | 0% | 25% | |
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TABLE 1 ABSTRACT OF EXAMINATIONS AND TESTS

SBK - 2nd Interval, 2nd Period

| | | | | Interval, 2 Period | |
|-------------------------|---|--|---|--|--|
| Examination Category | Total Examinations Required for The Interval | Total Examinations Credited for This Period | Total Examinations Credited (%) For The Period | Total Examinations Credited (%) To Date for The Interval | Remarks |
| C-B | 7 | 0 | 0% | 29% | |
| C-C | 5 | 0 | 0% | 40% | |
| C-D | There are no categ | ory C-D items. | | | |
| C-F-1 | 140 | 22 | 42% | 42% | |
| C-F-2 | 157 | 12 | 50% | 37% | |
| C-G | There are no categ | ory C-G items. | <u></u> | | |
| C-H | 25 | 13 | 52% | 51% | Required each Period. |
| D-A | 11 | 3 | 50% | 27% | |
| D-B | 17 | 7 | 41% | 47% | Required each Period. Code Case N-498-4 applied to hydrostatic tests. |
| E-A | 161 | 152 | 94% | 65% | Required each Period per 10CFR50.55a(b)(ix)(E). |
| E-C | 6 | 6 | 100% | 50% | Locations identified in Period 1 and require examination in Period 2 and Period 3. |
| E-D | 3 | 1 | 100% | 67% | |
| E-G | 15 | 3 | 100% | 73% | Required percentage amended by Code Case N-598. |
| F-A | 202 | 28 | 42% | 57% | |
| L-A | 24 | 0 | 0% | 33% | Required every 5 years per IWL-2410(a). |
| R-A | 72 | 12 | 50% | 50% | Risk-Informed Relief Request approved by NRC TAC No. MB1799. |

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 TABLE 1

 ABSTRACT OF EXAMINATIONS AND TESTS (continued)

 SBK - 2nd Interval, 2nd Period

TABLE 2 ITEMS WITH FLAWS OR RELEVANT CONDITIONS THAT REQUIRED EVALUATION FOR CONTINUED SERVICE

| | | | Flaw | Flaw or Relevant Condition Found |
|-------------|--------|-------------|------------------|----------------------------------|
| Examination | Item | Item | Characterization | During Scheduled Section XI |
| Category | Number | Description | (IWA-3300) | Examination or Test (Yes or No) |

There were no flaws or relevant conditions that required evaluation for continued service.

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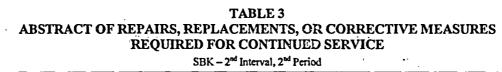
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TABLE 3 ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE

SBK - 2nd Interval, 2nd Period

| | | | SBK=2 Interval, 2 Feriod | · · · · · · · · · · · · · · · · · · · | | |
|---------------|---|---------------------|---|--|-------------------|---------------------------------------|
| Code Class | Repair, Replacement, or Corrective Measure | Item Description | Description of Work | Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No) | Date Completed | Repair/ Replacement Plan Number |
| 2 | ☑ Repair ☑ Replacement ☑ Corrective Measure | MS-PV-3003 | Replacement and Machining of Plug Assembly | CHECK IF YES 🗖 | 11/10/2003 | 00W000275 |
| 1 | Repair Replacement Corrective Measure | RC-E-11B | Attachment of Access Platform to Steam Generator Support | CHECK IF YES 🗌 | 4/21/2005 | 01C2836 |
| 1 | Repair Replacement Corrective Measure | RC-E-11C | Attachment of Access Platform to Steam Generator Support | CHECK IF YES 🗌 | 4/21/2005 | 01C2837 |
| 1 | Repair Replacement Corrective Measure | RC-E-11D | Attachment of Access Platform to Steam Generator Support | CHECK IF YES | 4/20/2005 | 01C2838 |
| 1 | Repair Replacement Corrective Measure | RC-E-11A | Attachment of Access Platform to Steam Generator Support | CHECK IF YES | 4/20/2005 | 01C2990 |
| 2 | Repair Replacement Corrective Measure | 2-RC-V-24 | Machining of Relief Valve | CHECK IF YES 🗌 | 12/29/2003 | 01RE00116600 |
| 2 | ☑ Repair ☑ Replacement ☑ Corrective Measure | MS-PV-3001 | Replacement and Machining of Plug Assembly | CHECK IF YES | 11/10/2003 | 01W000815 |
| 3 | Repair Replacement Corrective Measure | CC-V-256 | Bolting Replacement for Pipe to Valve Flange | CHECK IF YES 🗌 | 4/21/2005 | 0219315 |
| 3 | Repair Replacement Corrective Measure | 816-SG-11 | Addition of Pipe Support | CHECK IF YES | 12/10/2003 | 0228266 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | 816-SG-3 | U-Bolt Replacement on Pipe Support | CHECK IF YES 🗌 | 12/10/2003 | 0228266 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | CC-TV-130 | CS-TV-130 Replacement | CHECK IF YES | 12/10/2003 | 0228266 |
| 2 | ☐ Repair ⊠ Replacement ☐Corrective Measure | 1-MS-V-394 | Trim Replacement | CHECK IF YES | 12/9/2003 | 0229034 |
| 2 | ☐ Repair ⊠ Replacement ☐Corrective Measure | RC-E-11A | Machining of Secondary Handhole Cover on S/G "A" | CHECK IF YES | 10/29/2003 | 0230433 |



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| SBK - 2" | ^d Interval, 2 | Period |
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| | | | SBK = 2 Interval, 2 Period | · · · · · · · · · · · · · · · · · · · | | |
|---------------|---|---------------------|--|--|-------------------|---------------------------------------|
| Code Class | Repair, Replacement, or Corrective Measure | Item Description | Description of Work | Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No) | Date Completed | Repair/ Replacement Plan Number |
| 2 | Repair Replacement Corrective Measure | RC-E-11B | Bolting Replacement on Secondary Handhole Cover of Steam Generator | CHECK IF YES 🗌 | 10/29/2003 | 0230439 |
| 2. | Repair Replacement Corrective Measure | RC-E-11B | Machining of Secondary Handhole Cover on S/G "B" | CHECK IF YES 🗖 | 10/29/2003 | 0230439 |
| 2 | Repair Replacement Corrective Measure | RC-E-11D | Replacement of Secondary Manway Cover Bolting | CHECK IF YES | 10/29/2003 | 0230452 |
| 2 | ☐ Repair ⊠ Replacement ☐Corrective Measure | RC-E-11D | Replacement of Secondary Manway Cover | CHECK IF YES | 10/29/2003 | 0230452 |
| I | ☐ Repair ⊠ Replacement ☐ Corrective Measure | RC-V-116 | Replacement of Code Safety Valve | CHECK IF YES | 12/10/2003 | 0230466 |
| 1 | □ Repair ⊠ Replacement □Corrective Measure | RC-V-117 | Replacement of Code Safety Valve | CHECK IF YES | 12/10/2003 | 0230466 |
| 1 | Repair Replacement Corrective Measure | RC-V-115 | Replacement of Code Safety Valve | CHECK IF YES | 12/10/2003 | 0230466 |
| 1 | Repair Replacement Corrective Measure | RC-P-1B | Replacement of Pump Seal Cartridge | CHECK IF YES | 11/6/2003 | 0230608 |
| 1 | Repair Replacement Corrective Measure | RC-P-1D | Replacement of Pump Seal Cartridge | CHECK IF YES | 11/6/2003 | 0230663 |
| 3 | ☐ Repair ⊠ Replacement ☐ Corrective Measure | DG-V-124 | Bolting Replacement | CHECK IF YES 🗌 | 12/18/2003 | 0231217 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | DG-V-124 | Relief Valve Replacement | CHECK IF YES | 12/18/2003 | 0231217 |
| 2 | ☐ Repair ⊠ Replacement ☐Corrective Measure | 1-CS-FCV-121 | Replacement of Valve Internals | CHECK IF YES | 11/6/2003 | 0232918 |
| 3 | ☐ Repair ⊠ Replacement ☐ Corrective Measure | CC-V-143 | Relief Valve Replacement | CHECK IF YES | 12/4/2003 | 0233871 |
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TABLE 3 ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE - '

| SBK-2* | Interval, | 2 nd Period |
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|--------|-----------|------------------------|

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| Code Class | Repair, Replacement, or Corrective Measure | Item Description | Description of Work | Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No) | Date Completed | Repair/ Replacement Plan Number |
|---------------|---|-------------------------|--|--|-------------------|---------------------------------------|
| 3 | ☐ Repair ⊠ Replacement ☐ Corrective Measure | CC-V-410 | Relief Valve Replacement | CHECK IF YES 🗌 | 12/17/2003 | 0233885 |
| 3 | Repair Replacement Corrective Measure | CS-V-148 | Relief Valve Replacement | CHECK IF YES 🗌 | 12/5/2003 | 0233893 |
| 2 | Repair Replacement Corrective Measure | CS-V-173 | Relief Valve Replacement | CHECK IF YES 🗌 | 12/19/2003 | 0233894 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | DM-V-18 | Relief Valve Replacement | CHECK IF YES 🗌 | 12/11/2003 | 0233904 |
| 3 | ☐ Repair ⊠ Replacement ☐ Corrective Measure | SW-V-32 | Replacement of Safety Valve | CHECK IF YES 🗌 | 12/5/2003 | 0233930 |
| 3 | Repair Replacement Corrective Measure | 810-RM-3 | Replacement of Pipe Snubber | CHECK IF YES | 11/4/2003 | 0236422 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | DG-V-24A | Replacement of Valve | CHECK IF YES | 11/10/2003 | 0240968 |
| 3 | Repair Replacement Corrective Measure | DG-V-23A | Replacement of Valve | CHECK IF YES | 11/25/2003 | 0240969 |
| 3 | Repair Replacement Corrective Measure | DG-V-23A | Modification of Valve Disk | CHECK IF YES | 11/13/2003 | 0240969 |
| 3 | Repair Replacement Corrective Measure | DG-V-4A | Replacement of Valve | CHECK IF YES | 11/13/2003 | 0240972 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | DG-V-1A | Replacement of Valve | CHECK IF YES | 11/13/2003 | 0240973 |
| 3 | ☑ Repair ☑ Replacement ☑ Corrective Measure | RMW-1109 & 1109-SG-2 | Modification to RMW-1109 and Cutting of Support 1109- SG-2 | CHECK IF YES | 12/29/2003 | 0300908 |
| 3 | ☑ Repair ☑ Replacement ☑ Corrective Measure | CS-FCV-111A | Replace and Rotate Valve | CHECK IF YES 🗌 | 12/29/2003 | 0300908 |



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TABLE 3 ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES **REQUIRED FOR CONTINUED SERVICE**

| | SBK - 2 nd Interval, 2 nd Period | | | | | | | |
|---------------|---|---------------------|--|--|-------------------|---------------------------------------|--|--|
| Code Class | Repair, Replacement, or Corrective Measure | Item Description | Description of Work | Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No) | Date Completed | Repair/ Replacement Plan Number | | |
| 3 | Repair Replacement Corrective Measure | CC-V-271 | Machining of Valve Nozzle | CHECK IF YES | 11/26/2003 | 0302993 | | |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | CS-FCV-111A | Replacement of Valve Plug Assembly | CHECK IF YES | 12/29/2003 | 0304469 | | |
| 3 | Repair Replacement Corrective Measure | 1109-SG-3 | Attachment of CS-FT-111-2 to Pipe Support 1109-SG-3 | CHECK IF YES | 12/29/2003 | 0304475 | | |
| 2 | Repair Replacement Corrective Measure | 1-CBS-E-16A | Replacement of Bolting on Heat Exchanger | CHECK IF YES | 11/10/2003 | 0312432 | | |
| 2 | Repair Replacement Corrective Measure | RC-E-11A | Replacement of Secondary Manway Cover Bolting | CHECK IF YES 🗌 | 10/29/2003 | 0312825 | | |
| 3 | Repair Replacement Corrective Measure | SW-1803 & 1805 | Bolting Replacement | CHECK IF YES | 4/28/2005 | 0319755 | | |
| 3 | Repair Replacement Corrective Measure | SW-V-28 | Replacement of Valve | CHECK IF YES | 12/3/2004 | 0324441 | | |
| 2 | ☐ Repair ⊠ Replacement ☐ Corrective Measure | RC-V-24 | Replacement of Valve | CHECK IF YES | 12/29/2003 | 0324467 | | |
| 3 | Repair Replacement Corrective Measure | SW-P-41B | Replacement of Pump Assembly | CHECK IF YES | 12/30/2003 | 0325166 | | |
| 3 | Repair Replacement Corrective Measure | SW-P-41(spare) | Rebuilding of Pump Assembly | CHECK IF YES 🗌 | 11/9/2004 | 0341142 | | |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | CC-V-264 | Relief Valve Replacement | CHECK IF YES | 4/29/2005 | 0404751 | | |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | CC-V-271 | Relief Valve Replacement | CHECK IF YES | 4/29/2005 | 0404753 | | |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | CC-V-845 | Relief Valve Replacement | CHECK IF YES 🗌 | 4/18/2005 | 0404762 | | |

TABLE 3 ABSTRACT OF REPAIRS, REPLACEMENTS, OR CORRECTIVE MEASURES REQUIRED FOR CONTINUED SERVICE

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| SBK - 2nd Interval, 2nd Period | • |
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|---------------|---|------------------------------------|---|--|-------------------|---------------------------------------|
| Code Class | Repair, Replacement, or Corrective Measure | Item Description | Description of Work | Flaw or Relevant Condition Found During Scheduled Section XI Examination or Test (Yes/No) | Date Completed | Repair/ Replacement Plan Number |
| 2 | Repair Replacement Corrective Measure | Manway Cover | Machining of Spare Secondary Manway Cover | CHECK IF YES 🗍 | 1/18/2005 | 0407374 |
| 3 | Repair Replacement Corrective Measure | SW-1802-06 & SKM-05066- 2001 | Annubar SW-FE-6151 Modification | CHECK IF YES | 4/20/2005 | 0415635 |
| 2 | Repair Replacement Corrective Measure | SW-V-30 | Valve Replacement | CHECK IF YES 🗌 | 3/2/2005 | 0418202 |
| 3 | Repair Replacement Corrective Measure | SW-1817 | Bolting Replacement on Service Water Piping | CHECK IF YES | 4/20/2005 | 0441456 |
| 3 | ☐ Repair ⊠ Replacement ☐Corrective Measure | SW-1817-06 | Service Water Elbow and 2" Piping Replacement | CHECK IF YES | 4/20/2005 | 0441456 |
| 3 | Repair Replacement Corrective Measure | Pipe Flange | Bolting Replacement on Pipe Flange to Valve SW-V-49 | CHECK IF YES | 4/20/2005 | 0504009 |
| 3 | Repair Replacement Corrective Measure | SW-1810 | Attachment of Branch Connection to Service Water Piping | CHECK IF YES | 4/28/2005 | 0511095 |
| 2 | ☑ Repair ☑ Replacement ☑ Corrective Measure | MS-PV-3002 | Replacement and Machining of Plug Assembly | CHECK IF YES 🗋 | 11/24/2003 | 99W002711 |