



**Progress Energy**

**JUL 11 2006**

**SERIAL: BSEP 06-0048**

**U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001**

**Subject: Brunswick Steam Electric Plant, Unit No. 1  
Docket No. 50-325/License No. DPR-71  
Notification of Deviation From Boiling Water Reactor Vessel and Internals  
Project Guidelines**

**Ladies and Gentlemen:**

**Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc., is notifying the NRC of a deviation from a Boiling Water Reactors Vessel and Internals Project (BWRVIP) program element for the Brunswick Steam Electric Plant (BSEP), Unit No. 1. This is a notification only and no action from the NRC is being requested.**

**The deviation is from a "needed" element of the BWRVIP program. The needed element is jet pump beam inspections in accordance with BWRVIP-138, *BWR Vessel and Internals Project, Updated Jet Pump Beam Inspection and Flaw Evaluation Guidelines*. A deviation disposition has been prepared, reviewed, and approved in accordance with BWRVIP Report BWRVIP-94, Revision 1, *BWR Vessel and Internals Project, Program Implementation Guide*. The enclosure of this letter describes the deviation taken from BWRVIP guidelines and actions taken in lieu of the BWRVIP requirement.**

**No regulatory commitments are contained in this letter. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.**

**Sincerely,**

**Randy C. Ivey  
Manager - Support Services  
Brunswick Steam Electric Plant**

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WRM/wrm

Enclosure: Description of Deviation From Boiling Water Reactor Vessel and Internals  
Project (BWRVIP) Guideline

cc (with enclosure):

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**Description of Deviation From Boiling Water Reactor Vessel and Internals Project (BWRVIP) Guideline**

Carolina Power & Light (CP&L) Company, now doing business as Progress Energy Carolinas, Inc., is notifying the NRC of a deviation from BWRVIP Report BWRVIP-138, *BWR Vessel and Internals Project, Updated Jet Pump Beam Inspection and Flaw Evaluation Guidelines*. A deviation disposition has been prepared, reviewed, and approved in accordance with BWRVIP-94, Revision 1, *BWR Vessel and Internals Project, Program Implementation Guide*.

BWRVIP-94, Revision 1, provides implementation guidance to ensure the consistent application of BWRVIP guidelines by BWRVIP member utilities. Section 3.5 of BWRVIP-94, Revision 1, provides specific guidance for the reporting of inspection results, new repairs, and deviations taken from BWRVIP guidelines. If a utility does not implement any portion of an applicable "mandatory" or "needed" BWRVIP guideline that has been approved by the BWRVIP Executive Committee and transmitted to the NRC, the utility is required to notify the NRC and BWRVIP within 45 days following the utility executive concurrence with the disposition of the deviation. The utility is required to describe what BWRVIP requirement they are deviating from and what is being done in lieu of the applicable requirement.

During the BSEP Unit 1 refueling outage in March 2006, CP&L attempted to performed ultrasonic inspections of the jet pump beams. A description of the deviation taken from the applicable BWRVIP inspection guideline is provided below.

BWRVIP Document	BWRVIP Requirement	Exception	Alternative In Lieu Of
BWRVIP-138, Table 6-1	Perform a baseline inspection of jet pump holddown beam regions BB-1 and BB-2, using UT, within 12 years, and a baseline inspection of region BB-3, using ultrasonic testing (UT), within 20 years.  The Brunswick Unit 1 jet pump beams are	Completing the baseline inspection of the jet pump holddown beam region BB-2, using UT, as required by Table 6-1 of BWRVIP-138, baseline inspection of region BB-2 will be completed within 14 years instead of 12 years.	Enhanced Visual Testing (EVT-1) has been performed for inspection of the BB-2 region of all 20 jet pump holddown beams, with no relevant indications being identified. UT examination of region BB-1 for all 20 jet pump beams was also completed with no relevant indications being

BWRVIP Document	BWRVIP Requirement	Exception	Alternative In Lieu Of
	Type 2 and were installed in 1994. Brunswick Unit 1 meets the criteria for the Hydrogen Water Chemistry classification.		identified. Completion of UT baseline inspection of region BB-2 has been deferred for one operating cycle and will be completed during Unit 1 Refueling Outage 16 (i.e., B117R1).