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U.S. Nuclear Regulatory Commission (NRC)
ATTN: Document Control Desk
11555 Rockville Pike
Rockville, MD 20852-2738

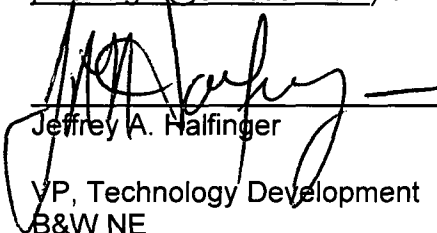
Babcock & Wilcox Nuclear Energy, Inc.
Docket Number-PROJ0776
Project Number-776

Subject: Submittal of Babcock & Wilcox Nuclear Energy Inc. (B&W NE) Instrument Setpoint Methodology Topical Report Revision 1 (Report Number 08-002089-001)

On October 28, 2010, B&W NE submitted to NRC Revision 0 of the above referenced topical report for technical staff review as part of our pre-application effort. Enclosed is Revision 1 of the referenced report for review. We have revised the report based on preliminary feedback from the NRC staff. Accordingly, limited portions of this report have been modified to:

1. clarify Section 4.2.1 of the report to describe the mathematical relationship between the nominal trip set point (NTSP) and the limiting trip set point (LTSP),
2. clarify the definition of margin,
3. add to the report a typical calculation (not design-specific) showing the determination of uncertainties, and application of the setpoint methodology for a typical instrument channel with resulting sample results for the analytical limit (AL), the channel uncertainty (CU), LTSP, NTSP, and the allowable value (AV),
4. remove references to use of a "graded approach",
5. clarify the relationships between design and safety analysis methods and methods applied during surveillance and calibration (Figure 5.1),
6. clarify that as-found tolerance is derived from the NTSP to establish the allowable value,(Figure 5.1), and
7. clarify that the allowable value is the limiting safety system setting (LSSS) in Figure 5.1.

Questions concerning this submittal may be directed to Jeff Halfinger at 434-316-7507 (email: jahalfinger@babcock.com) or T. J. Kim at 434-382-9791 (email: tjkim@babcock.com).


Jeffrey A. Halfinger

VP, Technology Development
B&W NE

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Enclosure: Babcock & Wilcox Nuclear Energy Inc. (B&W NE) Instrument Setpoint
Methodology Topical Report Revision 1 (Report Number 08-002089-001)

cc: Joelle L. Starefos, NRC, TWFN 9-F-27
Stewart L. Magruder, Jr., NRC, TWFN 9-F-27