



CP&L
A Progress Energy Company

SEP 20 2002

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U.S. Nuclear Regulatory Commission
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BRUNSWICK STEAM ELECTRIC PLANT, UNIT NOS. 1 AND 2
DOCKET NOS. 50-325 AND 50-324/LICENSE NOS. DPR-71 AND DPR-62
SUBMITTAL OF TECHNICAL SPECIFICATION BASES CHANGES FOR
REVISIONS 27 (UNIT 1) AND 24 (UNIT 2)

Ladies and Gentlemen:

In accordance with Technical Specification (TS) 5.5.10 for the Brunswick Steam Electric Plant (BSEP), Unit Nos. 1 and 2, Carolina Power & Light (CP&L) Company is submitting Revisions 27 and 24 to the BSEP, Unit 1 and 2 TS Bases, respectively. Revisions 27 and 24 were implemented on August 28, 2002.

Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor - Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

Edward T. O'Neil
Manager - Regulatory Affairs
Brunswick Steam Electric Plant

WRM/wrm

Enclosures:

1. Summary of Revisions to Technical Specification Bases
2. Technical Specification Bases Pages Replacement Instructions
3. Replacement Bases Pages – Units 1 and 2

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cc (with enclosures):

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Summary of Revisions to Technical Specification Bases

Summary of Revision to Technical Specification Bases			
Revision	Affected Units	Date Implemented	Title/Description
27 24	Unit 1 Unit 2	August 28, 2002	Title: Reactor Protection System (RPS) Electrical Protective Assembly (EPA) Online Breaker Testing Description: This change clarifies the Bases for Surveillance Requirement 3.3.8.2.1 to support online performance of the CHANNEL FUNCTIONAL TEST.

Technical Specification Bases Page Replacements Instructions

Unit 1	
Remove	Insert
Bases Book 1	
Title Page, Revision 26	Title Page, Revision 27
LOEP-1, Revision 26	LOEP-1, Revision 27
LOEP-4, Revision 22	LOEP-4, Revision 27
B 3.3-212, Revision 21	B 3.3-212, Revision 27
B 3.3-213, Revision 21	B 3.3-213, Revision 27

Unit 2	
Remove	Insert
Bases Book 1	
Title Page, Revision 23	Title Page, Revision 24
LOEP-1, Revision 23	LOEP-1, Revision 24
LOEP-4, Revision 21	LOEP-4, Revision 24
B 3.3-212, Revision 0	B 3.3-212, Revision 24
B 3.3-213, Revision 0	B 3.3-213, Revision 24

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Enclosure 3

Replacement Bases Pages – Units 1 and 2

BASES
TO
THE FACILITY OPERATING LICENSE DPR-71
TECHNICAL SPECIFICATIONS
FOR
BRUNSWICK STEAM ELECTRIC PLANT
UNIT 1
CAROLINA POWER & LIGHT COMPANY

REVISION 27

LIST OF EFFECTIVE PAGES - BASES

<u>Page No.</u>	<u>Revision No.</u>	<u>Page No.</u>	<u>Revision No.</u>
Title Page	27	B 3.1-7	0
List of Effective Pages - Book 1		B 3.1-8	0
LOEP-1	27	B 3.1-9	0
LOEP-2	25	B 3.1-10	0
LOEP-3	24	B 3.1-11	0
LOEP-4	27	B 3.1-12	0
i	21	B 3.1-13	0
ii	21	B 3.1-14	0
B 2.0-1	0	B 3.1-15	0
B 2.0-2	0	B 3.1-16	0
B 2.0-3	25	B 3.1-17	25
B 2.0-4	24	B 3.1-18	25
B 2.0-5	24	B 3.1-19	0
B 2.0-6	24	B 3.1-20	0
B 2.0-7	24	B 3.1-21	0
B 2.0-8	0	B 3.1-22	0
B 3.0-1	0	B 3.1-23	0
B 3.0-2	0	B 3.1-24	23
B 3.0-3	0	B 3.1-25	0
B 3.0-4	0	B 3.1-26	23
B 3.0-5	0	B 3.1-27	23
B 3.0-6	0	B 3.1-28	0
B 3.0-7	0	B 3.1-29	0
B 3.0-8	0	B 3.1-30	0
B 3.0-9	0	B 3.1-31	0
B 3.0-10	0	B 3.1-32	0
B 3.0-11	0	B 3.1-33	25
B 3.0-12	0	B 3.1-34	25
B 3.0-13	0	B 3.1-35	25
B 3.0-14	0	B 3.1-36	25
B 3.0-15	0	B 3.1-37	24
B 3.1-1	0	B 3.1-38	24
B 3.1-2	0	B 3.1-39	24
B 3.1-3	0	B 3.1-40	24
B 3.1-4	0	B 3.1-41	24
B 3.1-5	0	B 3.1-42	24
B 3.1-6	0	B 3.1-43	24
		B 3.1-44	24
		B 3.1-45	0
		B 3.1-46	0
		B 3.1-47	0
		B 3.1-48	24

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LIST OF EFFECTIVE PAGES - BASES (continued)

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B 3.3-158	21	B 3.3-199	21
B 3.3-159	21	B 3.3-200	21
B 3.3-160	21	B 3.3-201	21
B 3.3-161	21	B 3.3-202	21
B 3.3-162	21	B 3.3-203	21
B 3.3-163	21	B 3.3-204	21
B 3.3-164	21	B 3.3-205	21
B 3.3-165	21	B 3.3-206	21
B 3.3-166	21	B 3.3-207	21
B 3.3-167	21	B 3.3-208	21
B 3.3-168	21	B 3.3-209	21
B 3.3-169	21	B 3.3-210	21
B 3.3-170	21	B 3.3-211	21
B 3.3-171	21	B 3.3-212	27
B 3.3-172	21	B 3.3-213	27
B 3.3-173	21		
B 3.3-174	21		
B 3.3-175	21		
B 3.3-176	22		
B 3.3-177	21		
B 3.3-178	21		
B 3.3-179	22		
B 3.3-180	22		
B 3.3-181	22		
B 3.3-182	22		
B 3.3-183	22		
B 3.3-184	22		
B 3.3-185	22		
B 3.3-186	22		
B 3.3-187	21		
B 3.3-188	22		
B 3.3-189	22		
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B 3.3-192	22		
B 3.3-193	21		
B 3.3-194	21		
B 3.3-195	21		
B 3.3-196	21		
B 3.3-197	21		
B 3.3-198	21		

BASES (continued)

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.2.1

A CHANNEL FUNCTIONAL TEST is performed on each overvoltage, undervoltage, and underfrequency channel to ensure that the channel will perform the intended function. Any setpoint adjustment shall be consistent with the assumptions of the current plant specific setpoint methodology.

As noted in the Surveillance, the CHANNEL FUNCTIONAL TEST is only required to be performed while the plant is in a condition in which the loss of the RPS bus will not jeopardize steady state power operation (the design of the system is such that the power source must be removed from service to conduct the Surveillance). The 24 hours is intended to indicate an outage of sufficient duration to allow for scheduling and proper performance of the Surveillance.

The 184 day Frequency and the Note in the Surveillance are based on guidance provided in Generic Letter 91-09 (Ref. 3). BNP has evaluated as acceptable the performance of this evolution on-line, while maintaining the 184 day frequency if in cold shutdown.

SR 3.3.8.2.2 and SR 3.3.8.2.3

CHANNEL CALIBRATION is a complete check of the instrument loop and the sensor. This test verifies that the channel responds to the measured parameter within the necessary range and accuracy. CHANNEL CALIBRATION leaves the channel adjusted to account for instrument drifts between successive calibrations consistent with the plant specific setpoint methodology.

The Frequencies are based on the assumption of a 24 month calibration interval in the determination of the magnitude of equipment drift in the setpoint analysis.

SR 3.3.8.2.4

Performance of a system functional test demonstrates that, with a required system actuation (simulated or actual) signal, the logic of the system will automatically trip open the associated power monitoring assembly. Only one signal

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BASES

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.2.4 (continued)

per power monitoring assembly is required to be tested. This Surveillance overlaps with the CHANNEL CALIBRATION to provide complete testing of the safety function. The system functional test of the Class 1E circuit breakers is included as part of this test to provide complete testing of the safety function. If the breakers are incapable of operating, the associated electric power monitoring assembly would be inoperable.

The 24 month Frequency is based on the need to perform this Surveillance under the conditions that minimize the potential for an unplanned transient if the Surveillance were performed with the reactor at power. Operating experience has demonstrated that these components will usually pass the Surveillance when performed at the 24 month Frequency.

REFERENCES

1. UFSAR, Section 7.2.1.1.1.3.
 2. 10 CFR 50.36(c)(2)(ii).
 3. NRC Generic Letter 91-09, Modification of Surveillance Interval for the Electrical Protective Assemblies in Power Supplies for the Reactor Protection System.
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BASES
TO
THE FACILITY OPERATING LICENSE DPR-62
TECHNICAL SPECIFICATIONS
FOR
BRUNSWICK STEAM ELECTRIC PLANT
UNIT 2
CAROLINA POWER & LIGHT COMPANY

REVISION 24

LIST OF EFFECTIVE PAGES - BASES

<u>Page No.</u>	<u>Revision No.</u>	<u>Page No.</u>	<u>Revision No.</u>
Title Page	24	B 3.1-7	0
List of Effective Pages - Book 1		B 3.1-8	0
LOEP-1	24	B 3.1-9	0
LOEP-2	3	B 3.1-10	0
LOEP-3	12	B 3.1-11	0
LOEP-4	24	B 3.1-12	0
		B 3.1-13	0
		B 3.1-14	0
i	0	B 3.1-15	0
ii	0	B 3.1-16	0
		B 3.1-17	0
B 2.0-1	0	B 3.1-18	0
B 2.0-2	0	B 3.1-19	0
B 2.0-3	0	B 3.1-20	0
B 2.0-4	0	B 3.1-21	0
B 2.0-5	0	B 3.1-22	0
B 2.0-6	0	B 3.1-23	0
B 2.0-7	0	B 3.1-24	22
B 2.0-8	0	B 3.1-25	0
		B 3.1-26	22
		B 3.1-27	22
B 3.0-1	0	B 3.1-28	0
B 3.0-2	0	B 3.1-29	0
B 3.0-3	0	B 3.1-30	0
B 3.0-4	0	B 3.1-31	0
B 3.0-5	0	B 3.1-32	0
B 3.0-6	0	B 3.1-33	0
B 3.0-7	0	B 3.1-34	0
B 3.0-8	0	B 3.1-35	0
B 3.0-9	0	B 3.1-36	0
B 3.0-10	0	B 3.1-37	0
B 3.0-11	0	B 3.1-38	0
B 3.0-12	0	B 3.1-39	0
B 3.0-13	0	B 3.1-40	0
B 3.0-14	0	B 3.1-41	0
B 3.0-15	0	B 3.1-42	0
		B 3.1-43	0
B 3.1-1	0	B 3.1-44	0
B 3.1-2	0	B 3.1-45	0
B 3.1-3	0	B 3.1-46	0
B 3.1-4	0	B 3.1-47	0
B 3.1-5	0	B 3.1-48	0
B 3.1-6	0		

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LIST OF EFFECTIVE PAGES - BASES (continued)

<u>Page No.</u>	<u>Revision No.</u>	<u>Page No.</u>	<u>Revision No.</u>
B 3.3-157	12	B 3.3-199	0
B 3.3-158	12	B 3.3-200	0
B 3.3-159	0	B 3.3-201	0
B 3.3-160	0	B 3.3-202	0
B 3.3-161	0	B 3.3-203	0
B 3.3-162	0	B 3.3-204	0
B 3.3-163	0	B 3.3-205	0
B 3.3-164	0	B 3.3-206	0
B 3.3-165	0	B 3.3-207	0
B 3.3-166	0	B 3.3-208	0
B 3.3-167	0	B 3.3-209	0
B 3.3-168	0	B 3.3-210	0
B 3.3-169	0	B 3.3-211	0
B 3.3-170	0	B 3.3-212	24
B 3.3-171	0	B 3.3-213	24
B 3.3-172	0		
B 3.3-173	0		
B 3.3-174	0		
B 3.3-175	0		
B 3.3-176	21		
B 3.3-177	0		
B 3.3-178	0		
B 3.3-179	21		
B 3.3-180	21		
B 3.3-181	21		
B 3.3-182	21		
B 3.3-183	21		
B 3.3-184	21		
B 3.3-185	21		
B 3.3-186	21		
B 3.3-187	0		
B 3.3-188	21		
B 3.3-189	21		
B 3.3-190	21		
B 3.3-191	21		
B 3.3-192	21		
B 3.3-193	0		
B 3.3-194	0		
B 3.3-195	0		
B 3.3-196	0		
B 3.3-197	0		
B 3.3-198	0		

BASES (continued)

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.2.1

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SR 3.3.8.2.2 and SR 3.3.8.2.3

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SR 3.3.8.2.4

Performance of a system functional test demonstrates that, with a required system actuation (simulated or actual) signal, the logic of the system will automatically trip open the associated power monitoring assembly. Only one signal

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BASES

SURVEILLANCE
REQUIREMENTS

SR 3.3.8.2.4 (continued)

per power monitoring assembly is required to be tested. This Surveillance overlaps with the CHANNEL CALIBRATION to provide complete testing of the safety function. The system functional test of the Class 1E circuit breakers is included as part of this test to provide complete testing of the safety function. If the breakers are incapable of operating, the associated electric power monitoring assembly would be inoperable.

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1. UFSAR, Section 7.2.1.1.1.3.
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 3. NRC Generic Letter 91-09, Modification of Surveillance Interval for the Electrical Protective Assemblies in Power Supplies for the Reactor Protection System.
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