

ENCLOSURE 1  
SERIAL: NLS-84-082

BRUNSWICK STEAM ELECTRIC PLANT  
PROPOSED TECHNICAL SPECIFICATION PAGES - UNIT 1

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SUMMARY LIST OF REVISIONS  
BRUNSWICK UNIT 1

<u>PAGE</u>	<u>COMMENT</u>
3/4 1-12	Item 4.1.3.7.1.b - Surveillance Requirement "4.1.3.1" changed to "4.1.3.1.2"
3/4 3-42	Table Number "3.3.4-1" changed to "3.3.4-2"
3/4 6-25	Item 3.6.6.1 - "standby gas treatment subsystem" changed to "standby gas treatment system subsystem"
	"OPERATIONAL" added
	Item 4.6.6.1.a - "system" changed to "subsystem"
3/4 6-26	Item 4.6.6.1.e - "Regulatory Guide 1.53" changed to "Regulatory Guide 1.52"
	Item 4.6.6.1.d.1 - "<" changed to "less than"
	Item 4.6.6.1.d.2 - Eliminated one-time exemption to surveillance interval

REACTIVITY CONTROL SYSTEMSSURVEILLANCE REQUIREMENTS

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4.1.3.7.1 The control rod reed switch position indicators shall be determined OPERABLE by verifying:

- a. At least once per 24 hours, that the position of the control rod is indicated,
- b. That the indicated control rod position changes during the movement of the control rod when performing Surveillance Requirement 4.1.3.1.2, and
- c. That the control rod reed switch position indicator corresponds to the control rod position indicated by the "full-out" reed switches when performing Surveillance Requirement 4.1.3.6.b.

4.1.3.7.2 When the RSCS is required to be OPERABLE, the position and bypassing of control rods with inoperable "Full-in" or "Full-out" reed switch position indication shall be verified by a second licensed operator or other qualified member of the technical staff.

CONTAINMENT SYSTEMS3/4.6.6 CONTAINMENT ATMOSPHERE CONTROLSTANDBY GAS TREATMENT SYSTEMLIMITING CONDITION FOR OPERATION

3.6.6.1 Two independent standby gas treatment subsystems shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 5, and \*.

ACTION:

a. With one standby gas treatment subsystem inoperable:

1. In OPERATIONAL CONDITION 1, 2, or 3, restore the inoperable subsystem to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
2. In OPERATIONAL CONDITION 5 or \*, restore the inoperable subsystem to OPERABLE status within 31 days or suspend irradiated fuel handling in the secondary containment, CORE ALTERATIONS, or operations that could reduce the SHUTDOWN MARGIN. The provisions of Specification 3.0.3 are not applicable.

b. With both standby gas treatment subsystems inoperable;

1. In OPERATIONAL CONDITION 1, 2, or 3, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
2. In OPERATIONAL CONDITION 5 or \*, suspend all irradiated fuel handling in the secondary containment, CORE ALTERATIONS, or operations that could reduce the SHUTDOWN MARGIN. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.6.6.1 Each standby gas treatment subsystem shall be demonstrated OPERABLE:

- a. At least once per 31 days by initiating, from the control room, flow through the HEPA filters and charcoal absorbers, and verifying that the subsystem operates for at least 10 hours with the heaters on automatic control.

\*When irradiated fuel is being handled in the secondary containment.

CONTAINMENT SYSTEMSSURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 18 months or (1) after any structural maintenance on the HEPA filter or charcoal absorber housings, or (2) following painting, fire or chemical release in any ventilation zone, communicating with the system by:
  1. Verifying that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a., C.5.c, and C.5.d of Regulatory Guide 1.52, Revision 1, July 1976, and the system flow rate is 3000 cfm  $\pm$  10%.
  2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
  3. Verifying a system flow rate of 3000 cfm  $\pm$  10% during system operation when tested in accordance with ANSI N510-1975.
- c. After every 720 hours of charcoal absorber operation by verifying within 31 days after removal that a laboratory analysis of representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
- d. At least once per 18 months by:
  1. Verifying that the pressure drop across the combined HEPA filters and charcoal absorber banks is less than 8.5 inches Water Gauge while operating the filter train at a flow rate of 3000 cfm  $\pm$  10%.
  - 2.\* Verifying that the filter train starts on each secondary containment isolation test signal.
  3. Verifying that the heaters will dissipate at least 15.2 kw when tested in accordance with ANSI N510-1975.

\*For the performance of this surveillance scheduled to be completed by February 25, 1981, a onetime-only exemption is allowed to extend this surveillance until "before the completion of the Spring 1981 outage," scheduled to commence in March, 1981.



TABLE 3.3.4-2

CONTROL ROD WITHDRAWAL BLOCK INSTRUMENTATION SETPOINTS

<u>TRIP FUNCTION AND INSTRUMENT NUMBER</u>	<u>TRIP SETPOINT</u>	<u>ALLOWABLE VALUE</u>
1. <u>APRM (C51-APRM-CH. A,B,C,D,E,F)</u>		
a. Upscale (Flow Biased)	$\leq (0.66W + 42\%) \frac{T^*}{MTPF}$	$\leq (0.66W + 42\%) \frac{T^*}{MTPF}$
b. Inoperative	NA	NA
c. Downscale	$> 3/125$ of full scale	$> 3/125$ of full scale
d. Upscale (Fixed)	$\leq 12\%$ of RATED THERMAL POWER	$\leq 12\%$ of RATED THERMAL POWER
2. <u>ROD BLOCK MONITOR (C51-RBM-CH.A,B)</u>		
a. Upscale	$\leq (0.66W + 41\%) \frac{T^*}{MTPF}$	$\leq (0.66W + 41\%) \frac{T^*}{MTPF}$
b. Inoperative	NA	NA
c. Downscale	$> 3/125$ of full scale	$> 3/125$ of full scale
3. <u>SOURCE RANGE MONITORS (C51-SRM-K600A,B,C,D)</u>		
a. Detector not full in	NA	NA
b. Upscale	$\leq 1 \times 10^5$ cps	$\leq 1 \times 10^5$ cps
c. Inoperative	NA	NA
d. Downscale	$\geq 3$ cps	$\geq 3$ cps
4. <u>INTERMEDIATE RANGE MONITORS (C51-IRM-K601A,B,C,D,E,F,G,H)</u>		
a. Detector not full in	NA	NA
b. Upscale	$\leq 108/125$ of full scale	$\leq 108/125$ of full scale
c. Inoperative	NA	NA
d. Downscale	$\geq 3/125$ of full scale	$\geq 3/125$ of full scale
5. <u>SCRAM DISCHARGE VOLUME (C11-LSH-N013E)</u>		
a. Water Level - High	$\leq 73$ gallons	$\leq 73$ gallons

\*T=2.43 for 8x8 fuel  
 T=2.39 for 8x8R fuel  
 T=2.39 for P8x8R fuel

ENCLOSURE 2  
SERIAL: NLS-84-082

BRUNSWICK STEAM ELECTRIC PLANT  
PROPOSED TECHNICAL SPECIFICATION PAGES - UNIT 2

SUMMARY LIST OF REVISION  
BRUNSWICK UNIT 2

<u>PAGE</u>	<u>COMMENT</u>
3/4 1-12	Item 4.1.3.7.1.b - Surveillance Requirement "4.1.3.1" changed to "4.1.3.1.2"
3/4 6-25	Item 3.6.6.1 - "standby gas treatment subsystem" changed to "standby gas treatment system subsystem"  "OPERATIONAL" added  Item 4.6.6.1.a - "system" changed to "subsystem"
3/4 6-26	Item 4.6.6.1.c - "Regulatory Guide 1.53" changed to "Regulatory Guide 1.52"  Item 4.6.6.1.d.1 - "<" changed to "less than"



REACTIVITY CONTROL SYSTEMSLIMITING CONDITION FOR OPERATION (Continued)

- b. In CONDITION 5\* with a withdrawn control rod reed switch position indicator inoperable, fully insert the withdrawn control rod. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

4.1.3.7.1 The control rod reed switch position indicators shall be determined OPERABLE by verifying:

- a. At least once per 24 hours, that the position of the control rod is indicated,
- b. That the indicated control rod position changes during the movement of the control rod when performing Surveillance Requirement 4.1.3.1.2, and
- c. That the control rod reed switch position indicator corresponds to the control rod position indicated by the "Full-out" reed switches when performing Surveillance Requirement 4.1.3.6.b.

4.1.3.7.2 When the RSCS is required to be OPERABLE, the position and bypassing of control rods with inoperable "Full-in" or "Full-out" reed switch position indication shall be verified by a second licensed operator or other qualified member of the technical staff.

\*At least each withdrawn control rod. Not applicable to control rods removed per Specification 3.9.10.1 or 3.9.10.2.

CONTAINMENT SYSTEMS3/4.6.6 CONTAINMENT ATMOSPHERE CONTROLSTANDBY GAS TREATMENT SYSTEMLIMITING CONDITION FOR OPERATION

3.6.6.1 Two independent standby gas treatment subsystems shall be OPERABLE.

APPLICABILITY: OPERATIONAL CONDITIONS 1, 2, 3, 5, and \*.

ACTION:

- a. With one standby gas treatment subsystem inoperable:
  1. In OPERATIONAL CONDITION 1, 2, or 3, restore the inoperable subsystem to OPERABLE status within 7 days or be in at least HOT SHUTDOWN within the next 12 hours and in COLD SHUTDOWN within the following 24 hours.
  2. In OPERATIONAL CONDITION 5 or \*, restore the inoperable subsystem to OPERABLE status within 31 days or suspend irradiated fuel handling in the secondary containment, CORE ALTERATIONS, or operations that could reduce the SHUTDOWN MARGIN. The provisions of Specification 3.0.3 are not applicable.
- b. With both standby gas treatment subsystems inoperable;
  1. In OPERATIONAL CONDITION 1, 2, or 3, be in at least HOT SHUTDOWN within 12 hours and in COLD SHUTDOWN within the next 24 hours.
  2. In OPERATIONAL CONDITION 5 or \*, suspend all irradiated fuel handling in the secondary containment, CORE ALTERATIONS, or operations that could reduce the SHUTDOWN MARGIN. The provisions of Specification 3.0.3 are not applicable.

SURVEILLANCE REQUIREMENTS

- 4.6.6.1 Each standby gas treatment subsystem shall be demonstrated OPERABLE:
- a. At least once per 31 days by initiating, from the control room, flow through the HEPA filters and charcoal adsorbers and verifying that the subsystem operates for at least 10 hours with the heaters on automatic control.

\*When irradiated fuel is being handled in the secondary containment.

CONTAINMENT SYSTEMSSURVEILLANCE REQUIREMENTS (Continued)

- b. At least once per 18 months or (1) after any structural maintenance on the HEPA filter or charcoal adsorber housings, or (2) following painting, fire, or chemical release in any ventilation zone communicating with the system by:
  - 1. Verifying that the cleanup system satisfies the in-place testing acceptance criteria and uses the test procedures of Regulatory Positions C.5.a, C.5.c, and C.5.d of Regulatory Guide 1.52, Revision 1, July 1976, and the system flow rate is  $3000 \text{ cfm} \pm 10\%$ .
  - 2. Verifying within 31 days after removal that a laboratory analysis of a representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
  - 3. Verifying a system flow rate of  $3000 \text{ cfm} \pm 10\%$  during system operation when tested in accordance with ANSI N510-1975.
- c. After every 720 hours of charcoal adsorber operation by verifying within 31 days after removal that a laboratory analysis of representative carbon sample obtained in accordance with Regulatory Position C.6.b of Regulatory Guide 1.52, Revision 1, July 1976, meets the laboratory testing criteria of Regulatory Position C.6.a of Regulatory Guide 1.52, Revision 1, July 1976.
- d. At least once per 18 months by:
  - 1. Verifying that the pressure drop across the combined HEPA filters and charcoal adsorber banks is less than 8.5 inches Water Gauge while operating the filter train at a flow rate of  $3000 \text{ cfm} \pm 10\%$ .
  - 2. Verifying that the filter train starts on each secondary containment isolation test signal.
  - 3. Verifying that the heaters will dissipate at least 15.2 kw when tested in accordance with ANSI N510-1975.