

ENCLOSURE 4

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2  
NRC DOCKET NOS. 50-325 & 50-324  
OPERATING LICENSE NOS. DPR-71 & DPR-62  
REQUEST FOR LICENSE AMENDMENT  
ECCS ACTUATION INSTRUMENTATION OPERABILITY

PAGE CHANGE INSTRUCTIONS

UNIT 1

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UNIT 2

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ENCLOSURE 5

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2  
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TECHNICAL SPECIFICATION PAGES - UNIT 1 (MARKUPS)

TABLE 3.3.3-1

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

<u>TRIP FUNCTION</u>	<u>MINIMUM NUMBER OPERABLE CHANNELS PER TRIP SYSTEM<sup>(a)</sup></u>	<u>APPLICABLE OPERATIONAL CONDITIONS</u>	<u>ACTION</u>
<u>1. CORE SPRAY SYSTEM</u>			
a. Reactor Vessel Water Level - Low, Level 3	2	1, 2, 3, 4, 5	30
b. Reactor Steam Dome Pressure - Low (Injection Permissive)	2 <sup>(f)</sup>	1, 2, 3, 4, 5	31
c. Drywell Pressure - High	2	1, 2, 3	30
d. Time Delay Relay	1	1, 2, 3, 4, 5	31
e. Bus Power Monitor <sup>(d)</sup>	1/bus	1, 2, 3, 4, 5	32
<u>2. LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM</u>			
a. Drywell Pressure - High	2	1, 2, 3	30
b. Reactor Vessel Water Level - Low, Level 3	2	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	30
c. Reactor Vessel Shroud Level (Drywell Spray Permissive)	1	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
d. Reactor Steam Dome Pressure - Low (Injection Permissive)	2 <sup>(f)</sup>	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
1. RHR Pump Start and LPCI Injection Valve Actuation	2 <sup>(f)</sup>	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
2. Recirculation Loop Pump Discharge Valve Actuation	2 <sup>(f)</sup>	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
e. RHR Pump Start - Time Delay Relay	1	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
f. Bus Power Monitor <sup>(d)</sup>	1/bus	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	32

TABLE 3.3.3-1 (Continued)

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

NOTES

- (a) A channel may be placed in an inoperable status for up to two hours for required surveillance without placing the trip system in the tripped condition, provided at least one OPERABLE channel in the same trip system is monitoring the affected parameter.
- (b) Not applicable when two core spray system subsystems are OPERABLE per Specification 3.5.3.1.
- (c) Provides signal to HPCI pump suction valves only.
- (d) Alarm only.
- (e) Required when ESF equipment is required to be OPERABLE.
- (f) — SEE ATTACHED PAGE —

Proposed Note to Table 3.3.3-1:

- (f) On a one-time basis, prior to start-up from the outage that began on April 21, 1992, the Minimum Number OPERABLE Channels per Trip System for one reactor steam dome pressure - low (injection permissive) trip function may be reduced, for no longer than 7 days, from two (2) channels to one (1) channel without declaring the associated ECCS inoperable in accordance with ACTION 31. This will be done on one occasion for Unit 1 and two occasions for Unit 2. During these periods, the following actions shall be implemented:
- (1) The inoperable channel shall be placed in the condition that will satisfy the logic for allowing injection by the associated ECCS with the reactor steam dome pressure below  $410 \text{ psig} \pm 15 \text{ psig}$ .
  - (2) Both channels in the other trip system shall be maintained OPERABLE.
  - (3) The reactor vessel head vent shall be maintained in the open position.

ENCLOSURE 6

BRUNSWICK STEAM ELECTRIC PLANT, UNITS 1 AND 2  
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ECCS ACTUATION INSTRUMENTATION OPERABILITY

TECHNICAL SPECIFICATION PAGES - UNIT 2 (MARKI/PS)

TABLE 3.3.3-1

## EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

TRIP FUNCTION	MINIMUM NUMBER OPERABLE CHANNELS PER TRIP SYSTEM <sup>(a)</sup>	APPLICABLE OPERATIONAL CONDITIONS	ACTION
1. CORE SPRAY SYSTEM			
a. Reactor Vessel Water Level - Low, Level 3	2	1, 2, 3, 4, 5	30
b. Reactor Steam Dome Pressure - Low (Injection Permissive)	2 <sup>(f)</sup>	1, 2, 3, 4, 5	31
c. Drywell Pressure - High	2	1, 2, 3	30
d. Time Delay Relay	1	1, 2, 3, 4, 5	31
e. Bus Power Monitor <sup>(d)</sup>	1/bus	1, 2, 3, 4, 5	32
2. LOW PRESSURE COOLANT INJECTION MODE OF RHR SYSTEM			
a. Drywell Pressure - High	2	1, 2, 3	30
b. Reactor Vessel Water Level - Low, Level 3	2	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	30
c. Reactor Vessel Shroud Level (Drywell Spray Permissive)	1	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
d. Reactor Steam Dome Pressure - Low (Injection Permissive)	2 <sup>(f)</sup>	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
1. RHR Pump Start and LPCI Injection Valve Actuation	2 <sup>(f)</sup>	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	11
2. Recirculation Loop Pump Discharge Valve Actuation			
e. RHR Pump Start - Time Delay Relay	1	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	31
f. Bus Power Monitor <sup>(d)</sup>	1/bus	1, 2, 3, 4 <sup>(b)</sup> , 5 <sup>(b)</sup>	32

TABLE 3.3.3-1 (Continued)

EMERGENCY CORE COOLING SYSTEM ACTUATION INSTRUMENTATION

NOTES

- (a) A channel may be placed in an inoperable status for up to two hours for required surveillance without placing the trip system in the tripped condition, provided at least one OPERABLE channel in the same trip system is monitoring the affected parameter.
- (b) Not applicable when two core spray system subsystems are OPERABLE per Specification 3.5.3.1.
- (c) Provides signal to HPCI pump suction valves only.
- (d) Alarm only.
- (e) Required when ESF equipment is required to be OPERABLE.
- (f) — SEE ATTACHED PAGE —



Proposed Note to Table 3.3.3-1:

- (f) On a one-time basis, prior to start-up from the outage that began on April 21, 1992, the Minimum Number OPERABLE Channels per Trip System for one reactor steam dome pressure - low (injection permissive) trip function may be reduced, for no longer than 7 days, from two (2) channels to one (1) channel without declaring the associated ECCS inoperable in accordance with ACTION 31. This will be done on one occasion for Unit 1 and two occasions for Unit 2. During these periods, the following actions shall be implemented:
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  - (3) The reactor vessel head vent shall be maintained in the open position.