

ATTACHMENT

MARKED-UP TECHNICAL SPECIFICATION PAGES FOR CATAWBA

TABLE 3.3-3 (Continued)

## ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
8. Auxiliary Feedwater (Continued)					
g. Auxiliary Feedwater Suction Pressure-Low					
1) CAPS 5220, 5221, 5222	3/pump	2/pump	2/pump	1, 2, 3	15 <i>a</i>
2) CAPS 5230, 5231, 5232	3/pump	2/pump	2/pump	1, 2, 3	15 <i>a</i>
9. Containment Sump Recirculation					
a. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	14
b. Refueling Water Storage Tank Level-Low	4	2	3	1, 2, 3, 4	16 <i>a</i>
Coincident With Safety Injection	See Item 1. above for all Safety Injection initiating functions and requirements.				
10. Loss of Power					
a. 4 kV Bus Undervoltage- Loss of Voltage	3/Bus	2/Bus	2/Bus	1, 2, 3, 4	15
b. 4 kV Bus Undervoltage- Grid Degraded Voltage	3/Bus	2/Bus	2/Bus	1, 2, 3, 4	15
11. Control Room Area Ventilation Operation					
a. Automatic Actuation Logic and Actuation Relays	2	1	2	All	24

CATAMBA UNITS 1 &amp; 2

3/4 3-21

Amendment No. 48 (Unit 1)  
Amendment No. 49 (Unit 2)

TABLE 3.3-3 (Continued)

## ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
11. Control Room Area Ventilation Operation (Continued)					
b. Loss-of-Offsite Power	3	2	2	1, 2, 3	15 a
c. Safety Injection	See Item 1. above for all Safety Injections initiating functions and requirements.				
12. Containment Air Return and Hydrogen Skimmer Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	14 a
c. Containment Pressure- High-High	4	2	3	1,2,3	16
13. Annulus Ventilation Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	14 a
c. Safety Injection	See Item 1. above for all Safety Injection initiating functions and requirements.				
14. Nuclear Service Water Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	21 a

CATAMBA UNITS 1 &amp; 2

3/4 3-22

Amendment No. 48 (Unit 1)  
Amendment No. 21 (Unit 2)

THESE ADDITIONAL ACTION STATEMENTS TO BE INSERTED FOLLOWING THE  
RESPECTIVELY-NUMBERED ACTION STATEMENTS OF TABLE 3.3-3:

- ACTION 14a - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 6 hours and in COLD SHUTDOWN within the following 30 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1, provided the other channel is OPERABLE.
- ACTION 15a - With the number of OPERABLE channels one less than the Total Number of Channels, operation may proceed until performance of the next required ANALOG CHANNEL OPERATIONAL TEST provided the inoperable channel is placed in the tripped condition within 1 hour.
- ACTION 16a - With the number of OPERABLE channels one less than the Total Number of Channels, operation may proceed provided the inoperable channel is placed in the bypassed condition and the Minimum Channels OPERABLE requirement is met. One additional channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1.
- ACTION 16b - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- a. The inoperable channel is placed in the tripped condition within 1 hour, and
  - b. The Minimum Channels OPERABLE requirement is met; however, one additional channel may be bypassed for up to 2 hours for surveillance testing of other channels per Specification 4.3.2.1.
- ACTION 21a - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 6 hours and in at least HOT SHUTDOWN within the following 6 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1 provided the other channel is OPERABLE.

**II**  
Duke Power Company  
Catawba Nuclear Generation Department  
4800 Concord Road  
York, SC 29745

CCMAN  
Vice President  
(803)831-3205 Office  
(803)831-3426 Fax



**DUKE POWER**

May 12, 1993

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Subject: Catawba Nuclear Station, Units 1 and 2  
Docket Nos. 50-413 and 50-414  
Proposed Changes to Technical Specifications 3/4.3.1 and 3/4.3.2  
Increased Surveillance Test Intervals and Allowed Outage Times for Reactor Trip  
System (RTS) and Engineered Safety Features Actuation System (ESFAS)  
Instrumentation

References: 1. Letter from M.S. Tuckman to NRC, dated January 25, 1993  
2. Letter from Charles E. Rossi to Roger A. Newton, dated February 22, 1989

Gentlemen:

During a recent conversation between R.E. Martin (NRC) and L.J. Rudy (DPCo), it was noted that in Reference 1, the proposed Action 14a of Table 3.3-3 (Engineered Safety Features Actuation System Instrumentation, Containment Sump Recirculation Functional Unit 9a, Automatic Actuation Logic and Actuation Relays) contained an eight-hour requirement to be in hot standby when the conditions of the action statement are not met. In Reference 2, a twelve-hour requirement to be in hot standby had been previously approved by the NRC for this functional unit. Therefore, the proposed Action 14a is actually more conservative than what was previously approved by the NRC. Also, the proposed Action 14a contains a two-hour allowance for bypass of a channel for surveillance testing whereas Reference 2 previously approved a four-hour allowance.

By this letter, Catawba is modifying the technical specification amendment request submitted in Reference 1 to request the full amount of relief previously approved by the NRC for this functional unit. The marked-up technical specification pages which reflect this request are attached. (Note that Functional Unit 9a will now refer to Action 14 of the Reference 1 submittal; Action 14a of Reference 1 will be deleted; and Action 14b of Reference 1 will be renumbered as the new Action 14a.) The conclusions of the original safety analysis and No Significant Hazards Consideration Analysis continue to remain valid as a result of this additional

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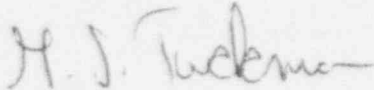
May 12, 1993

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request.

If you have any questions concerning this material, please call L.J. Rudy at (803) 831-3084.

Very truly yours,

A handwritten signature in dark ink, appearing to read "M.S. Tuckman". The signature is fluid and cursive, with a horizontal line extending from the end.

M.S. Tuckman

LJR/s

Attachment

xc (W/Attachment):

S.D. Ebnetter, Regional Administrator  
Region II

W.T. Orders, Senior Resident Inspector

R.E. Martin  
ONRR

Heyward Shealy, Chief  
Bureau of Radiological Health, SC

American Nuclear Insurers

M&M Nuclear Consultants

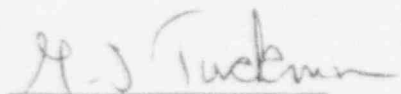
INPO Records Center

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May 12, 1993

Page 3

M.S. Tuckman, being duly sworn, states that he is Vice President of Duke Power Company; that he is authorized on the part of said Company to sign and file with the Nuclear Regulatory Commission this revision to the Catawba Nuclear Station License Nos. NPF-35 and NPF-52 and that all statements and matters set forth therein are true and correct to the best of his knowledge.



M.S. Tuckman, Vice President

Subscribed and sworn to before me this 12th day of May, 1993.



Notary Public

My commission expires:

Notary Public, South Carolina State at Large

My Commission Expires Aug. 5, 1993

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ATTACHMENT

MARKED-UP TECHNICAL SPECIFICATION PAGES FOR CATAWBA

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TABLE 3.3-3 (Continued)

## ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION	4
8. Auxiliary Feedwater (Continued)						
g. Auxiliary Feedwater Suction Pressure-Low						
1) CAPS 5220, 5221, 5222	3/pump	2/pump	2/pump	1, 2, 3	15 a	
2) CAPS 5230, 5231, 5232	3/pump	2/pump	2/pump	1, 2, 3	15 a	
9. Containment Sump Recirculation						
a. Automatic Actuation Logic and Actuation Relays	2	1	2	1, 2, 3, 4	14	
b. Refueling Water Storage Tank Level-Low  Coincident With Safety Injection	4	2	3	1, 2, 3, 4	16 a	
See Item 1. above for all Safety Injection initiating functions and requirements.						
10. Loss of Power						
a. 4 kV Bus Undervoltage- Loss of Voltage	3/Bus	2/Bus	2/Bus	1, 2, 3, 4	15	✓
b. 4 kV Bus Undervoltage- Grid Degraded Voltage	3/Bus	2/Bus	2/Bus	1, 2, 3, 4	15	✓
11. Control Room Area Ventilation Operation						
a. Automatic Actuation Logic and Actuation Relays	2	1	2	All	24	

CATAWBA UNITS 1 &amp; 2

3/4 3-21

Amendment No. 48 (Unit 1)  
Amendment No. 49 (Unit 2)

TABLE 3.3-3 (Continued)

## ENGINEERED SAFETY FEATURES ACTUATION SYSTEM INSTRUMENTATION

FUNCTIONAL UNIT	TOTAL NO. OF CHANNELS	CHANNELS TO TRIP	MINIMUM CHANNELS OPERABLE	APPLICABLE MODES	ACTION
11. Control Room Area Ventilation Operation (Continued)					
b. Loss-of-Offsite Power	3	2	2	1, 2, 3	15 a
c. Safety Injection	See Item 1. above for all Safety Injections initiating functions and requirements.				
12. Containment Air Return and Hydrogen Skimmer Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	14 a
c. Containment Pressure- High-High	4	2	3	1,2,3	16
13. Annulus Ventilation Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	14 a
c. Safety Injection	See Item 1. above for all Safety Injection initiating functions and requirements.				
14. Nuclear Service Water Operation					
a. Manual Initiation	2	1	2	1,2,3,4	18
b. Automatic Actuation Logic and Actuation Relays	2	1	2	1,2,3,4	21 a

CATAMBA UNITS 1 &amp; 2

3/4 3-22

Amendment No. 1 (Unit 1)  
Amendment No. 2 (Unit 2)

THESE ADDITIONAL ACTION STATEMENTS TO BE INSERTED FOLLOWING THE  
RESPECTIVELY-NUMBERED ACTION STATEMENTS OF TABLE 3.3-3:

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- ACTION 16a - With the number of OPERABLE channels one less than the Total Number of Channels, operation may proceed provided the inoperable channel is placed in the bypassed condition and the Minimum Channels OPERABLE requirement is met. One additional channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1.
- ACTION 16b - With the number of OPERABLE channels one less than the Total Number of Channels, STARTUP and/or POWER OPERATION may proceed provided the following conditions are satisfied:
- a. The inoperable channel is placed in the tripped condition within 1 hour, and
  - b. The Minimum Channels OPERABLE requirement is met; however, one additional channel may be bypassed for up to 2 hours for surveillance testing of other channels per Specification 4.3.2.1.
- ACTION 21a - With the number of OPERABLE channels one less than the Minimum Channels OPERABLE requirement, be in at least HOT STANDBY within 6 hours and in at least HOT SHUTDOWN within the following 6 hours; however, one channel may be bypassed for up to 2 hours for surveillance testing per Specification 4.3.2.1 provided the other channel is OPERABLE.