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CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS

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50-413/414



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Catawba Nuclear Station
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York, SC 29745
(803) 831-3000

October 30, 2000

RE: Catawba Nuclear Station
Selected Licensee Commitments Manual
Revision Date 10/16/00

Attached are revisions to the Catawba Nuclear Station Selected Licensee Commitments Manual.
Please remove and replace the following pages:

REMOVE

INSERT

LIST OF EFFECTIVE PAGES

Page 5 of 8 dated 09/25/00

Page 5 of 8 dated 10/16/00

TAB 16.9

Chapter 16.9-8, pages 1&2 of 2
dated 01/16/99

Chapter 16.9-8, pages 1&2 of 2
dated 10/16/00

Chapter 16.9-10, page 1 of 1
dated 01/16/99

Chapter 16.9-10, pages 1&2 of 2
dated 10/16/00

If you have any questions concerning the contents of this package update, contact Toni Pasour at (803) 831-3566.

Gary D. Gilbert
Regulatory Compliance Manager

**CATAWBA NUCLEAR STATION
SELECTED LICENSEE COMMITMENTS MANUAL**

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16.9 AUXILIARY SYSTEMS

16.9-8 BORATION SYSTEMS FLOW PATHS – OPERATING

COMMITMENT:

At least two of the following three boron injection flow paths shall be OPERABLE:

- a. The flow path from the boric acid tanks via a boric acid transfer pump and a charging pump to the Reactor Coolant System, and
- b. Two flow paths from the refueling water storage tank via charging pumps to the Reactor Coolant System.

APPLICABILITY:

MODES 1, 2, 3,
MODE 4 with all RCS cold leg temperatures > 285°F.

REMEDIAL ACTION:

- a. With only one of the above required boron injection flow paths to the Reactor Coolant System OPERABLE, restore at least two boron injection flow paths to the Reactor Coolant System to OPERABLE status within 72 hours* or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to at least 1% $\Delta k/k$ at 200°F within the next 6 hours; restore at least two flow paths to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.
- b. In MODE 4 during plant startup, the provisions of SLC 16.2-3 are not applicable for 15 minutes for the purpose of racking in or otherwise aligning the second of two charging pumps after increasing all four RCS cold leg temperatures above 285°F.

*For each boron injection flow path on Unit 2, the Completion Time that one boron injection flow path can be inoperable as specified by the Remedial Action may be extended beyond the 72 hours up to 288 hours as part of the NSW system upgrades. System upgrades include maintenance and modification activities associated with cleaning of NSW piping, valves and branch lines, necessary repairs and/or replacement, valve repair and/or replacement, and replacement of portions of the NSW piping to the AFW system. Upon completion of the cleaning, upgrades, and system restoration in refueling outage 1 EOC12, this footnote is no longer applicable.

TESTING REQUIREMENTS:

At least two of the above required flow paths shall be demonstrated OPERABLE:

- a. At least once per 7 days by verifying that the temperature of the flow path from the boric acid tanks is greater than or equal to 65°F when it is a required water source:
- b. At least once per 31 days by verifying that each valve (manual, power-operated, or automatic) in the flow path that is not locked, sealed, or otherwise secured in position, is in its correct position;
- c. At least once per 18 months during shutdown by verifying that each automatic valve in the flow path actuates to its correct position on a Safety Injection test signal; and

TESTING REQUIREMENTS (con't)

- d. At least once per 18 months by verifying that the flow path required by SLC 16.9-8.a delivers at least 30 gpm to the Reactor Coolant System.

REFERENCES:

1. Letter from NRC to Gary R. Peterson, Duke, Issuance of Improved Technical Specifications Amendments for Catawba, September 30, 1998.
2. Problem Investigation Process (PIP) C-00-01820.

BASES:

The Boration System Flow Paths ensures that negative reactivity control is available during each mode of facility operation. The components required to perform this function include separate flow paths and boric acid transfer pumps.

In MODES 1, 2, and 3, and MODE 4 with all RCS cold leg temperatures above 285°F, a minimum of two boron injection flow paths are required to ensure single functional capability in the event an assumed failure renders one of the flow paths inoperable. The boration capability of either flow path, in association with a charging pump and borated water source, is sufficient to provide a SHUTDOWN MARGIN from expected operating conditions of 1.3% $\Delta k/k$ after xenon decay and cooldown to 200°F.

The exception to the provisions of SLC 16.2-3 for 15 minutes allows time for racking in or otherwise aligning the second of two charging pumps after increasing all four RCS cold leg temperatures above 285°F.

16.9 AUXILIARY SYSTEMS

16.9-10 BORATION SYSTEMS CHARGING PUMPS – OPERATING

COMMITMENT:

At least two charging pumps shall be OPERABLE.

APPLICABILITY:

MODES 1, 2, 3,
MODE 4 with all RCS cold leg temperatures > 285°F.

REMEDIAL ACTION:

- a. With only one charging pump OPERABLE, restore at least two charging pumps to OPERABLE status within 72 hours* or be in at least HOT STANDBY and borated to a SHUTDOWN MARGIN equivalent to at least 1% $\Delta k/k$ at 200°F within the next 6 hours; restore at least two charging pumps to OPERABLE status within the next 7 days or be in COLD SHUTDOWN within the next 30 hours.
- b. In MODE 4 during plant startup, the provisions of SLC 16.2-3 are not applicable for 15 minutes for the purpose of racking in or otherwise aligning the second of two charging pumps after increasing all four RCS cold leg temperatures above 285°F.

*For each charging pump on Unit 2, the Completion Time that one charging pump can be inoperable as specified by the Remedial Action may be extended beyond the 72 hours up to 288 hours as part of the NSW system upgrades. System upgrades include maintenance and modification activities associated with cleaning of NSW piping, valves and branch lines, necessary repairs and/or replacement, valve repair and/or replacement, and replacement of portions of the NSW piping to the AFW system. Upon completion of the cleaning, upgrades, and system restoration in refueling outage 1 EOC12, this footnote is no longer applicable.

TESTING REQUIREMENTS:

At least two charging pumps shall be demonstrated OPERABLE by verifying that a differential pressure across each pump of greater than or equal to 2380 psid is developed when tested pursuant to Technical Specification 5.5.8.

REFERENCES:

1. Letter from NRC to Gary R. Peterson, Duke, Issuance of Improved Technical Specifications Amendments for Catawba, September 30, 1998.

2. Problem Investigation Process (PIP) C-00-01820.

BASES:

The Boration System Charging Pumps ensures that negative reactivity control is available during each mode of facility operation.

In MODES 1, 2, and 3, and MODE 4 with all RCS cold leg temperatures above 285°F, two charging pumps are required to ensure single functional capability in the event an assumed failure renders one of the charging pumps inoperable. The boration capability of either charging pump, in association with a flow path and borated water source, is sufficient to provide a SHUTDOWN MARGIN from expected operating conditions of 1.3% $\Delta k/k$ after xenon decay and cooldown to 200°F.

The exception to the provisions of SLC 16.2-3 for 15 minutes allows time for racking in or otherwise aligning the second of two charging pumps after increasing all four RCS cold leg temperatures above 285°F.