

ADMINISTRATIVE CONTROLS

CORE OPERATING LIMITS REPORT

6.9.1.9 Core operating limits shall be established and documented in the CORE OPERATING LIMITS REPORT before each reload cycle or any remaining part of a reload cycle for the following:

1. Moderator Temperature Coefficient BOL and EOL limits and 300 ppm surveillance limit for Specification 3/4.1.1.3,
2. Shutdown Bank Insertion Limit for Specification 3/4.1.3.5,
3. Control Bank Insertion Limits for Specification 3/4.1.3.6,
4. Axial Flux Difference limits, target band*, and APL^{ND} * for Specification 3/4.2.1,
5. Heat Flux Hot Channel Factor, F_q^{RTP} , $K(Z)$, $W(Z)^{**}$, APL^{ND**} and $W(Z)_{BL}^{**}$ for Specification 3/4.2.2, and
6. Nuclear Enthalpy Rise Hot Channel Factor, $F_{\Delta H}^L$ ***, or $F_{\Delta H}^{RTP}$ ****, and Power Factor Multiplier, $MF_{\Delta H}^{****}$, limits for Specification 3/4.2.3.
7. Overtemperature and Overpower Delta T setpoint parameter values for Specification 2.2.1.
8. Boric Acid Storage System and Refueling Water Storage Tank volume and boron concentration limits for Specifications 3/4.1.2.5 and 3/4.1.2.6.
9. Accumulator and Refueling Water Storage Tank boron concentration limits for Specification 3/4.5.1 and 3/4.5.5.

The analytical methods used to determine the core operating limits shall be those previously reviewed and approved by NRC in:

1. WCAP-9272-P-A, "WESTINGHOUSE RELOAD SAFETY EVALUATION METHODOLOGY," July 1985 (W Proprietary).

(Methodology for Specifications 3.1.1.3 - Moderator Temperature Coefficient, 3.1.3.5 - Shutdown Bank Insertion Limit, 3.1.3.6 - Control Bank Insertion Limits, 3.2.1 - Axial Flux Difference, 3.2.2 - Heat Flux Hot Channel Factor, and 3.2.3 - Nuclear Enthalpy Rise Hot Channel Factor.)

ADD ITEMS
10 AND 11,
ATTACHED

* Reference 5 is not applicable to target band and APL^{ND} .

** References 4 and 5 are not applicable to $W(Z)$, APL^{ND} , and $W(Z)_{BL}$.

*** Reference 1 is not applicable to $F_{\Delta H}^L$.

**** Reference 5 is not applicable to $F_{\Delta H}^{RTP}$ and $MF_{\Delta H}$.

10. Reactor Coolant System and refueling canal boron concentration limits for Specification 3/4.9.1.
11. Spent fuel pool boron concentration limits for Specification 3/4.9.12.

ADMINISTRATIVE CONTROLS

MONTHLY OPERATING REPORTS

6.9.1.8 Routine reports of operating statistics and shutdown experience, including documentation of all challenges to the PORVs or safety valves, shall be submitted on a monthly basis to the NRC in accordance with 10 CFR 50.4, no later than the 15th of each month following the calendar month covered by the report.

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2. Shutdown Bank Insertion Limit for Specification 3/4.1.3.5,
3. Control Bank Insertion Limits for Specification 3/4.1.3.6,
4. Axial Flux Difference Limits, target band*, and APL^{ND*} for Specification 3/4.2.1,
5. Heat Flux Hot Channel Factor, F_q^{RTP} , $K(Z)$, $W(Z)**$, APL^{ND**} , $F_q^L(X,Y,Z)$ and $W(Z)_{BL}^{**}$ for Specification 3/4.2.2, and
6. Nuclear Enthalpy Rise Hot Channel Factor, $F_{\Delta H}^{L***}(X,Y)$ or, $F_{\Delta H}^{RTP****}$, and Power Factor Multiplier, $MF_{\Delta H}^{****}$, limits for Specification 3/4.2.3.
7. Overtemperature and Overpower Delta T setpoint parameter values for Specification 2.2.1.
8. Boric Acid Storage System and Refueling Water Storage Tank volume and boron concentration limits for Specifications 3/4.1.2.5 and 3/4.1.2.6.
9. Reactor Water Makeup Pump flowrate limits for Specifications 3/4.3.3.12 and 3/4.9.2.

← ADD ITEMS 10 AND 11, ATTACHED

* Reference 5 is not applicable to target band and APL^{ND} .

** References 4 and 5 are not applicable to $W(Z)$, and APL^{ND} , and $W(Z)_{BL}$.

*** Reference 1 is not applicable to $F_{\Delta H}^L$.

**** Reference 5 is not applicable to $F_{\Delta H}^{RTP}$ and $MF_{\Delta H}$.

10. Reactor Coolant System and refueling canal boron concentration limits for Specification 3/4.9.1.

11. Spent fuel pool boron concentration limits for Specification 3/4.9.12.

McGuire 1 Cycle 9 Core Operating Limits Report

3.10 Refueling Operations - Boron Concentration (Specification 3/4.9.1)

- 3.10.1 Minimum boron concentrations for the filled portions of the Reactor Coolant System and refueling canal. Applicable for mode 6 with the reactor vessel head closure bolts less than fully tensioned, or with the head removed.

<u>Parameter</u>	<u>Limit</u>
Refueling boron concentration for the filled portions of the Reactor Coolant System and refueling canal for LCO 3.9.1.b.	2000 ppm

3.11 Fuel Storage - Spent Fuel Storage Pool (Specification 3/4.9.12)

- 3.11.1 Minimum boron concentration limit for the spent fuel pool. Applicable when fuel is stored in the spent fuel pool.

<u>Parameter</u>	<u>Limit</u>
Spent fuel pool minimum boron concentration for LCO 3.9.12.a.	2000 ppm
Spent fuel pool minimum boron concentration for surveillance 4.9.12b.	2000 ppm

SAMPLE; MNS UNIT 2 AND CATAWBA
WILL BE SIMILAR.