

MARKED-UP PAGES  
EFFECTIVE AS OF  
VOGTLE 1 CYCLE 4

## POWER DISTRIBUTION LIMITS

2199 psig\* (UNIT 1) or 2224 psig\* (UNIT 2)

### 3/4.2.5 DNB PARAMETERS

#### LIMITING CONDITION FOR OPERATION

3.2.5 The following DNB-related parameters shall be maintained within the limits:

- Reactor Coolant System  $T_{avg}$  (TI-0412, TI-0422, TI-0432, TI-0442),  $< 591^{\circ}\text{F}$   $\leftarrow 592.5^{\circ}\text{F}$  (UNIT 1) or  $591^{\circ}\text{F}$  (UNIT 2)
- Pressurizer Pressure (PI-0455A, B&C, PI-0456 & PI-0456A, PI-0457 & PI-0457A, PI-0458 & PI-0458A),  $> 2224 \text{ psig}^*$
- Reactor Coolant System Flow (FI-0414, FI-0415, FI-0416, FI-0424, FI-0425, FI-0426, FI-0434, FI-0435, FI-0436, FI-0444, FI-0445, FI-0446)  $> 396,198 \text{ gpm}^{**}$   $\leftarrow 391,225 \text{ gpm}^{**}$  (UNIT 1) or  $396,198 \text{ gpm}^{**}$  (UNIT 2)

APPLICABILITY: MODE 1.

ACTION:

With any of the above parameters exceeding its limit, restore the parameter to within its limit within 2 hours or reduce THERMAL POWER to less than 5% of RATED THERMAL POWER within the next 4 hours.

#### SURVEILLANCE REQUIREMENTS

- 4.2.5.1 Reactor Coolant System  $T_{avg}$  and Pressurizer Pressure shall be verified to be within their limits at least once per 12 hours. RCS flow rate shall be monitored for degradation at least once per 12 hours. In the event of flow degradation, RCS flow rate shall be determined by precision heat balance within 7 days of detection of flow degradation.
- 4.2.5.2 The RCS flow rate indicators shall be subjected to CHANNEL CALIBRATION at each fuel loading and at least once per 18 months.
- 4.2.5.3 After each fuel loading, the RCS flow rate shall be determined by precision heat balance prior to operation above 75% RATED THERMAL POWER. The RCS flow rate shall also be determined by precision heat balance at least once per 18 months. Within 7 days prior to performing the precision heat balance flow measurement, the instrumentation used for performing the precision heat balance shall be calibrated. The provisions of 4.0.4 are not applicable for performing the precision heat balance flow measurement.

\*Limit not applicable during either a THERMAL POWER ramp in excess of 5% of RATED THERMAL POWER per minute or a THERMAL POWER step in excess of 10% of RATED THERMAL POWER.

\*\*Includes a 3.5% flow measurement uncertainty.

VOGTLE UNITS - 1 & 2

$\leftarrow 2.2\%$  (UNIT 1) or  $3.5\%$  (UNIT 2)

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2.3

POWER DISTRIBUTION LIMITS - UNIT 1BASES3/4.2.5 DNB PARAMETERS (Continued)

The 12-hour periodic surveillance of these parameters through instrument readout is sufficient to ensure that the parameters are restored within their limits following load changes and other expected transient operation. The 18 month periodic measurement of the RCS total flow rate is adequate to detect flow degradation and ensure correlation of the flow indication channels with measured flow such that the indicated percent flow will provide sufficient verification of the flow rate degradation on a 12 hour basis. A change in indicated percent flow which is greater than the instrument channel inaccuracies and parallax errors is an appropriate indication of RCS flow degradation.

*when the RCS total flow rate is measured, no additional allowances are necessary prior to the comparison with the limits of Specification 3.2.5. The measurement uncertainty includes an allowance of 0.1% to account for feedwater venturi fouling.*

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EFFECTIVE AS OF

VOGTLE 2 CYCLE 3

## POWER DISTRIBUTION LIMITS

### 3/4.2.5 DNB PARAMETERS

#### LIMITING CONDITION FOR OPERATION

3.2.5 The following DNB-related parameters shall be maintained within the limits:

- a. Reactor Coolant System  $T_{avg}$  (TI-0412, TI-0422, TI-0432, TI-0442),  
 $\leq 592.5^{\circ}\text{F}$  ~~(Unit 1)~~ or  $\leq 591^{\circ}\text{F}$  ~~(Unit 2)~~.
- b. Pressurizer Pressure (PI-0455A,B&C, PI-0456 & PI-0456A, PI-0457 & PI-0457A, PI-0458 & PI-0458A),  $\geq 2199$  psig\* ~~(Unit 1)~~ or  $2224$  psig\* ~~(Unit 2)~~.
- c. Reactor Coolant System Flow (FI-0414, FI-0415, FI-0416, FI-0424, FI-0425, FI-0426, FI-0434, FI-0435, FI-0436, FI-0444, FI-0445, FI-0446)  $\geq 391,605$  gpm\*\* ~~(Unit 1)~~ or  $396,190$  gpm\*\* ~~(Unit 2)~~.

APPLICABILITY: MODE 1.

#### ACTION:

With any of the above parameters exceeding its limit, restore the parameter to within its limit within 2 hours or reduce THERMAL POWER to less than 5% of RATED THERMAL POWER within the next 4 hours.

#### SURVEILLANCE REQUIREMENTS

- 4.2.5.1 Reactor Coolant System  $T_{avg}$  and Pressurizer Pressure shall be verified to be within their limits at least once per 12 hours. RCS flow rate shall be monitored for degradation at least once per 12 hours. In the event of flow degradation, RCS flow rate shall be determined by precision heat balance within 7 days of detection of flow degradation.
- 4.2.5.2 The RCS flow rate indicators shall be subjected to CHANNEL CALIBRATION at each fuel loading and at least once per 18 months.
- 4.2.5.3 After each fuel loading, the RCS flow rate shall be determined by precision heat balance prior to operation above 75% RATED THERMAL POWER. The RCS flow rate shall also be determined by precision heat balance at least once per 18 months. Within 7 days prior to performing the precision heat balance flow measurement, the instrumentation used for performing the precision heat balance shall be calibrated. The provisions of 4.0.4 are not applicable for performing the precision heat balance flow measurement.

\*Limit not applicable during either a THERMAL POWER ramp in excess of 5% of RATED THERMAL POWER per minute or a THERMAL POWER step in excess of 10% of RATED THERMAL POWER.

\*\*Includes a 2.3% ~~(Unit 1)~~ or 3.5% ~~(Unit 2)~~ flow measurement uncertainty.

POWER DISTRIBUTION LIMITS ~~UNIT 1~~

BASES

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3/4.2.5 DNB PARAMETERS (Continued)

The 12-hour periodic surveillance of these parameters through instrument readout is sufficient to ensure that the parameters are restored within their limits following load changes and other expected transient operation. The 18 month periodic measurement of the RCS total flow rate is adequate to detect flow degradation and ensure correlation of the flow indication channels with measured flow such that the indicated percent flow will provide sufficient verification of the flow rate degradation on a 12 hour basis. A change in indicated percent flow which is greater than the instrument channel inaccuracies and parallax errors is an appropriate indication of RCS flow degradation.

When the RCS total flow rate is measured, no additional allowances are necessary prior to the comparison with the limits of Specification 3.2.5. The measurement uncertainty includes an allowance of 0.1% to account for feedwater venturi fouling.



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## POWER DISTRIBUTION LIMITS

### 3/4.2.5 DNB PARAMETERS

#### LIMITING CONDITION FOR OPERATION

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3.2.5 The following DNB-related parameters shall be maintained within the limits:

- a. Reactor Coolant System  $T_{avg}$  (TI-0412, TI-0422, TI-0432, TI-0442),  $\leq 592.5^{\circ}\text{F}$  (Unit 1) or  $\leq 591^{\circ}\text{F}$  (Unit 2).
- b. Pressurizer Pressure (PI-0455A,B&C, PI-0456 & PI-0456A, PI-0457 & PI-0457A, PI-0458 & PI-0458A),  $\geq 2199$  psig\* (Unit 1) or 2224 psig\* (Unit 2).
- c. Reactor Coolant System Flow (FI-0414, FI-0415, FI-0416, FI-0424, FI-0425, FI-0426, FI-0434, FI-0435, FI-0436, FI-0444, FI-0445, FI-0446)  $\geq 391,605$  gpm\*\* (Unit 1) or 396,198 gpm\*\* (Unit 2).

APPLICABILITY: MODE 1.

#### ACTION:

With any of the above parameters exceeding its limit, restore the parameter to within its limit within 2 hours or reduce THERMAL POWER to less than 5% of RATED THERMAL POWER within the next 4 hours.

#### SURVEILLANCE REQUIREMENTS

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- 4.2.5.1 Reactor Coolant System  $T_{avg}$  and Pressurizer Pressure shall be verified to be within their limits at least once per 12 hours. RCS flow rate shall be monitored for degradation at least once per 12 hours. In the event of flow degradation, RCS flow rate shall be determined by precision heat balance within 7 days of detection of flow degradation.
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- 4.2.5.3 After each fuel loading, the RCS flow rate shall be determined by precision heat balance prior to operation above 75% RATED THERMAL POWER. The RCS flow rate shall also be determined by precision heat balance at least once per 18 months. Within 7 days prior to performing the precision heat balance flow measurement, the instrumentation used for performing the precision heat balance shall be calibrated. The provisions of 4.0.4 are not applicable for performing the precision heat balance flow measurement.

\*Limit not applicable during either a THERMAL POWER ramp in excess of 5% of RATED THERMAL POWER per minute or a THERMAL POWER step in excess of 10% of RATED THERMAL POWER.

\*\*Includes a 2.3% (Unit 1) or 3.5% (Unit 2) flow measurement uncertainty.



POWER DISTRIBUTION LIMITS - UNIT 1

BASES

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3/4.2.5 DNB PARAMETERS (Continued)

The 12-hour periodic surveillance of these parameters through instrument readout is sufficient to ensure that the parameters are restored within their limits following load changes and other expected transient operation. The 18 month periodic measurement of the RCS total flow rate is adequate to detect flow degradation and ensure correlation of the flow indication channels with measured flow such that the indicated percent flow will provide sufficient verification of the flow rate degradation on a 12 hour basis. A change in indicated percent flow which is greater than the instrument channel inaccuracies and parallax errors is an appropriate indication of RCS flow degradation.

When the RCS total flow rate is measured, no additional allowances are necessary prior to the comparison with the limits of Specification 3.2.5. The measurement uncertainty includes an allowance of 0.1% to account for feedwater venturi fouling.

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VOGTLE 2 CYCLE 3

## POWER DISTRIBUTION LIMITS

### 3/4.2.5 DNB PARAMETERS

#### LIMITING CONDITION FOR OPERATION

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3.2.5 The following DNB-related parameters shall be maintained within the limits:

- a. Reactor Coolant System  $T_{avg}$  (TI-0412, TI-0422, TI-0432, TI-0442),  $\leq 592.5^{\circ}\text{F}$ .
- b. Pressurizer Pressure (PI-0455A,B&C, PI-0456 & PI-0456A, PI-0457 & PI-0457A, PI-0458 & PI-0458A),  $\geq 2199$  psig\*.
- c. Reactor Coolant System Flow (FI-0414, FI-0415, FI-0416, FI-0424, FI-0425, FI-0426, FI-0434, FI-0435, FI-0436, FI-0444, FI-0445, FI-0446)  $\geq 391,605$  gpm\*\*.

APPLICABILITY: MODE 1.

#### ACTION:

With any of the above parameters exceeding its limit, restore the parameter to within its limit within 2 hours or reduce THERMAL POWER to less than 5% of RATED THERMAL POWER within the next 4 hours.

#### SURVEILLANCE REQUIREMENTS

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\*Limit not applicable during either a THERMAL POWER ramp in excess of 5% of RATED THERMAL POWER per minute or a THERMAL POWER step in excess of 10% of RATED THERMAL POWER.

\*\*Includes a 2.3% flow measurement uncertainty.

THIS PAGE BECOMES APPLICABLE FOLLOWING SHUTDOWN FROM UNIT 2 CYCLE 2 OPERATION.

## POWER DISTRIBUTION LIMITS

### BASES

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#### 3/4.2.5 DNB PARAMETERS (Continued)

The 12-hour periodic surveillance of these parameters through instrument readout is sufficient to ensure that the parameters are restored within their limits following load changes and other expected transient operation. The 18 month periodic measurement of the RCS total flow rate is adequate to detect flow degradation and ensure correlation of the flow indication channels with measured flow such that the indicated percent flow will provide sufficient verification of the flow rate degradation on a 12 hour basis. A change in indicated percent flow which is greater than the instrument channel inaccuracies and parallax errors is an appropriate indication of RCS flow degradation.

When the RCS total flow rate is measured, no additional allowances are necessary prior to the comparison with the limits of Specification 3.2.5. The measurement uncertainty includes an allowance of 0.1% to account for feedwater venturi fouling.

THIS PAGE BECOMES APPLICABLE FOLLOWING SHUTDOWN FROM UNIT 2 CYCLE 2 OPERATION.