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**OMAHA PUBLIC POWER DISTRICT  
TECHNICAL SPECIFICATION BASIS CHANGE INDEX**

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## TECHNICAL SPECIFICATIONS

### 2.0 LIMITING CONDITIONS FOR OPERATION

#### 2.10 Reactor Core (Continued)

##### 2.10.4 Power Distribution Limits (Continued)

###### (5) DNBR Margin During Power Operation Above 15% of Rated Power

(a) The following limits on DNB-related parameters shall be maintained:

- |       |  |                                 |
|-------|--|---------------------------------|
| (i)   | Cold Leg Temperature<br>(Core Inlet Temperature) | as specified in the COLR        |
| (ii)  | Pressurizer Pressure                             | $\geq 2075$ psia <sup>(1)</sup> |
| (iii) | Reactor Coolant Flow rate                        | $\geq 202,500$ gpm indicated    |
| (iv)  | Axial Shape Index                                | as specified in the COLR        |

\* (b) With any of the above parameters exceeding the limit, restore the parameter to within its limit within 2 hours or reduce power to less than 15% of rated power within the next 8 hours.

#### Basis

The limitation on linear heat rate ensures that in the event of a LOCA, the peak temperature of the fuel cladding will not exceed 2200°F.

Either of the two core power distribution monitoring systems, the Excore Detector Monitoring System or the Incore Detector Monitoring System, provides adequate monitoring of the core power distribution and is capable of verifying that the linear heat rate does not exceed its limit. The Excore Detector Monitoring System performs this function by continuously monitoring the axial shape index (ASI) with the operable quadrant symmetric excore neutron flux detectors. The axial shape index is maintained within the allowable limits of the Limiting Condition for Operation for Excore Monitoring of LHR Figure provided in the COLR. This ASI is adjusted by Specification 2.10.4(1)(c) for the allowed linear heat rate of the Allowable Peak Linear Heat Rate vs. Burnup Figure provided in the COLR and the  $F_R^T$  and Core Power Limitations Figure provided in the COLR. In conjunction with the use of the excore monitoring system and in establishing the axial shape index limits, the following assumptions are made: (1) the CEA insertion limits of Specification 2.10.2(6) and long term insertion limits of Specification 2.10.2(7) are satisfied, and (2) the flux peaking augmentation factors are as shown in Figure 2-8.

(1) Limit not applicable during either a thermal power ramp in excess of 5% of rated thermal power per minute or a thermal power step of greater than 10% of rated thermal power.