## POWER DISTRIBUTION LIMITS

## SURVEILLANCE REQUIREMENTS (Continued)

4.2.4.4 The following DNBR penalty factors shall be verified to be included in the COLSS and CPC DNBR calculations at least once per 31 days:

Burnup (GWD)	DNBR Penalty (%)
0-3.1	0
3.1-5	2.0
5-10	5.9
10-15	8.8
15-20	11.4
20-25	13.6
25-30	15.6
30-35	17.4

The penalty for each batch will be applied to the batch's maximum radial power peak. A single net penalty for COLSS and CPC will be determined from the penalties associated with each batch, accounting for the offsetting margins due to the lower radial power peaks in the higher burnup batches.

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BASIS

The DNBR penalty factors listed in section 4.2.4.4. are peralties used to accomodate the effects of rod bow. The amount of rod bow in each individual fuel assembly is dependent upon the burnup experienced by that assembly. Higher burnup assemblies will experience a higher degree of rod bow and should be assigned a higher penalty factor. Conversely, low burnup assemblies will experience a lesser degree of rod bow and should be assigned a lower penalty factor. Consistant with the discussion above the burnup dependent penalty factors should be applied to each fuel batch based upon their burnup level.