Docket No. 50-368

Enclosure 1-NP to
A-CE-R-92

Typical Data Base Constants for Arkansas Nuclear One Unit 2

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1. INTRODUCTION

This report is provided to facilitate review of Reference 1. The report contains a summary of typical data base constants for Arkansas Nuclear One Unit 2 (ANO-2) Cycle 5 associated with the Reference 1 CPC methodology changes. These values have been extracted from the Reference 2 data base listing. The CPC algorithms for ANO-2 Cycle 5 are identical to those being reviewed for San Onofre Nuclear Generating Station Units 2 and 3 (Ref. 3). The methodology used for generating these constants is the same as used for San Onofre Nuclear Generating Station Units 2 and 3 (Reference 4).

2. TYPICAL DATA BASE CONSTANTS CHANGES FOR ANO-2

2.1 Data Base Constants for the Temperature Shadowing Factor Algorithm Constants.

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2.2 Data Base Constants for Power Dependent Biases

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2.3 Data Base Constants for DNBR Penalty in UPDATE

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2.4 Change in UPDATE DNBR Uncertainty and Threshold Constants

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2.5 Data Base Constants for RPC Algorithm

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2.6 Data Base Constants for Non-Uniform Heating (F_K) Correction Factor

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2.7 Data Base Constants for Reactor Coolant Pump Pressure Rise Calculation

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3. REFERENCES

1. CEN-288(A)-P, "CPC Methodology Changes for Arkansas Nuclear One Unit 2 Cycle 5,"October 1984.

2. CEN-296(A)-P, "ANO-2 CPC and CEAC Data Base Listing," March 1985.

3. CEN-281(S)-P, "CPC/CEAC Software Modifications for SONGS 2 and 3," July 1984.

4. CEN-284(S)-P, "Safety Analysis and CPC Methodology Changes for SONGS 2 and 3," June 1984.