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June 10, 1999
Bw990028

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D. C. 20555

Braidwood Station, Unit 2
Facility Operating License No. NPF-77
NRC Docket No. STN 50-457

Subject: Core Operating Limits Report for Braidwood Station, Unit 2, Cycle 8

Braidwood Station Unit 2 has recently completed its 7th Cycle of operation and is currently in its 8th Cycle of operation. The startup date was May 18, 1999. The purpose of this letter is to advise you of our review of the Cycle 8 reload under the provision of 10 CFR 50.59 and to transmit the Core Operating Limits Report (COLR) for Cycle 8 in accordance with Technical Specification Section 5.6.5, "Core Operating Limits Report (COLR)."

The Braidwood Station, Unit 2, Cycle 8 core, which consists of NRC-approved fuel designs, was designed to operate within approved fuel design criteria, Technical Specifications and related bases such that:

- 1) core operating characteristics will be equivalent to or less limiting than those previously reviewed and accepted or
- 2) re-analyses or re-evaluations have been performed to demonstrate that the limiting postulated UFSAR events, which could be affected by the included values, are within allowable limits.

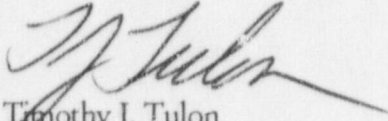
We have performed a detailed review of the revised reload licensing documents, the associated bases, and references. Based on that review, a safety evaluation was prepared, which concluded that the reload presents no unreviewed safety questions and requires no Technical Specification changes. The review of the 10 CFR 50.59 Safety Evaluation by Braidwood Station personnel was completed in accordance with station procedures. Finally, further verification of the reload core design was performed during startup testing.

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If there are any questions regarding this letter, please contact Mr. T. W. Simpkin at (815) 458-2801 ext. 2980.

Sincerely,



Timothy J. Tulon
Vice President
Braidwood Nuclear Generating Station

Attachment: Braidwood Station Unit 2 Core Operating Limits Report for Cycle 8

cc: Regional Administrator - NRC, Region III
NRC Senior Resident Inspector - Braidwood Station

Attachment
Braidwood Station Unit 2 Core Operating Limits Report for Cycle 8