



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

July 13, 2010

LICENSEE: Nebraska Public Power District

FACILITY: Cooper Nuclear Station

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON  
MAY 26, 2010, BETWEEN THE U.S. NUCLEAR REGULATORY  
COMMISSION STAFF AND NEBRASKA PUBLIC POWER DISTRICT,  
RELATED TO A CLARIFICATION FOR CERTAIN RESPONSES TO  
REQUESTS FOR ADDITIONAL INFORMATION FOR COOPER  
NUCLEAR STATION LICENSE RENEWAL

The U.S. Nuclear Regulatory Commission staff and representatives of Nebraska Public Power District held a telephone conference call on May 26, 2010, to discuss clarifications for certain responses to requests for additional information for Cooper Nuclear Station license renewal.

Enclosure 1 provides a listing of the participants, and Enclosure 2 contains a brief description of the conference call.

The applicant had an opportunity to comment on this summary.

A handwritten signature in black ink, appearing to read "Tam Tran".

Tam Tran, Project Manager  
License Renewal Projects Branch 1  
Division of License Renewal  
Office of Nuclear Reactor Regulation

Docket No. 50-298

Enclosures:  
As stated

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LIST OF PARTICIPANTS FROM THE  
TELEPHONE CONFERENCE CALL FOR  
COOPER NUCLEAR STATION  
LICENSE RENEWAL APPLICATION

May 26, 2010

PARTICIPANTS

T. Tran

O. Yee

A. Heiser

D. Bremer

W. Victor

K. Thomas

D. Lach

AFFILIATIONS

U.S. Nuclear Regulatory Commission (NRC)

NRC

NRC

Nebraska Public Power District (NPPD)

NPPD

NPPD

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COOPER NUCLEAR STATION POWER PLANT  
LICENSE RENEWAL APPLICATION  
(Brief description of the conference call)

The U.S. Nuclear Regulatory Commission (NRC) staff and representatives of Nebraska Public Power District (NPPD) held a telephone conference call on May 26, 2010, to discuss clarifications for a certain confirmatory item in the Safety Review Evaluation (SER) with Open Items for Cooper Nuclear Station (CNS) license renewal.

**Clarification for RAI B.1.15-7 response:**

Issue:

If the action limit (or time-limited aging analysis (TLAA) results) is based on an assumed/projected 29 transient cycles and the operating experience shows that CNS reaches 29 cycles, what is the next programmatic action (of aging effect management from the fatigue monitoring program)?

Background:

Supplemental Response to RAI B.1.15-7(d) was sent by letter dated March 25, 2010 (NLS2010019).

Part B breaks down the number of transient occurrences to approximately 10 year intervals. For the loss of feedwater shutdown, the total number of occurrences through 2009 adds up to 29 cycles. The number of cycles from 1974-1994 adds up to 27 cycles for the same transient.

License renewal application (LRA) Table 4.3-1 for the "Loss of Feedwater Pumps" states that the projected number of cycles is 29. And the number of cycles through November 21, 2006, is 23 cycles.

Footnote #1 of LRA Table 4.3-3 states that the 60-year cycles from LRA Table 4.3-1 was used to calculate the 60-year cumulative usage factors (CUF) for license renewal.

Assumption: "loss of feedwater pumps" is the same as the term used in the supplemental response, "loss of feedwater shutdown."

Requests:

- 1) If there has already been 29 cycles of loss of feedwater and the projected number of 29 cycles for loss of feedwater was used to calculate the 60-year CUF in LRA Table 4.3-3, what does this mean for the calculations that were performed for license renewal that used this transient and the projected cycles in the analyses?
- 2) How is it that the LRA states that only 23 cycles have occurred through November 21, 2006, but the supplemental response states that 27 cycles have occurred from 1974-1994?

The applicant provided the following clarifications:

In re-looking at CNS transient cycles monitoring procedure and past records, the following corrections are needed in the RAI response and will be provided as RAI response supplement.

During the initial years of plant operation there were more shutdowns for equipment issues and operator errors. Also the plant was on a 12 month refueling cycle which necessitated a startup and shutdown every year. As the staff gained experience, the number of equipment issues and personnel errors diminished. From 1974 to 1984, the first ten years of operation, there were approximately 44 normal shutdowns, 12 loss of feedwater shutdowns, 20 turbine trips, and 50 other scrams. From 1985 through 1994, there were approximately 11 normal shutdowns, five loss of feedwater shutdowns, five turbine trips, and 12 other scrams. From 1995 to 2009, there were approximately 20 normal shutdowns, two loss of feedwater shutdowns, one turbine trip, and 10 other scrams. This shows that the rate of occurrence of startups and shutdowns from 1996 through 2007 is much less than the rate of occurrence prior to 1996. The more recent trend is expected to be representative of future plant performance. Nonetheless, the Fatigue Monitoring Program will continue to track the number of plant transients to ensure that fatigue analyses based on those numbers remain valid through the period of extended operation.

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Tam Tran, Project Manager  
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Division of License Renewal  
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NAME	TTran	IKing	BBrady (TTran for)	BPham	TTran
DATE	06/24/10	06/09/10	06/24/10	07/07/10	07/13/10

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Memorandum to Nebraska Public Power District from T. Tran dated July 13, 2010

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