May 6, 2007

LICENSEE: Wolf Creek Nuclear Operating Corporation

FACILITY: Wolf Creek Generating Station, Unit 1

SUBJECT: SUMMARY OF TELEPHONE CONFERENCE CALL HELD ON APRIL 06, 2007, BETWEEN THE U.S. NUCLEAR REGULATORY COMMISSION AND WOLF CREEK NUCLEAR OPERATING CORPORATION, CONCERNING DRAFT REQUESTS FOR ADDITIONAL INFORMATION PERTAINING TO THE WOLF CREEK GENERATING STATION, UNIT 1, LICENSE RENEWAL APPLICATION

The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Wolf Creek Nuclear Operating Corporation held a telephone conference call on April 06, 2007, to discuss and clarify the staff’s draft requests for additional information (D-RAIs) concerning the Wolf Creek Generating Station, Unit 1, license renewal application. The telephone conference call was useful in clarifying the intent of the staff’s D-RAIs.

Enclosure 1 provides a listing of the participants and Enclosure 2 contains a listing of the D-RAIs discussed with the applicant, including a brief description on the status of the items.

The applicant had an opportunity to comment on this summary.

/RA/
Verónica M. Rodríguez, Project Manager
License Renewal Branch B
Division of License Renewal
Office of Nuclear Reactor Regulation

Docket No. 50-482

Enclosures:
1. List of Participants
2. List of Draft Requests for Additional Information

cc w/encls: See next page
The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Wolf Creek Nuclear Operating Corporation held a telephone conference call on April 06, 2007, to discuss and clarify the staff’s draft requests for additional information (D-RAIs) concerning the Wolf Creek Generating Station, Unit 1, license renewal application. The telephone conference call was useful in clarifying the intent of the staff’s D-RAIs.

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/RA/  
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License Renewal Branch B  
Division of License Renewal  
Office of Nuclear Reactor Regulation
TELEPHONE CONFERENCE CALL  
WOLF CREEK GENERATING STATION, UNIT 1  
LICENSE RENEWAL APPLICATION  

LIST OF PARTICIPANTS  
APRIL 06, 2007  

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<td>James Johnson</td>
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The U.S. Nuclear Regulatory Commission (NRC or the staff) and representatives of Wolf Creek Nuclear Operating Corporation held a telephone conference call on April 06, 2007, to discuss and clarify the following draft requests for additional information (D-RAIs) concerning the Wolf Creek Generating Station (WCGS), Unit 1, license renewal application (LRA).

SCOPING AND SCREENING RESULTS

Scoping and Screening Results: Structures

D-RAI 2.4-1

LRA Section 2.4.9 states that structural features are provided to protect safety-related components from flooding. The staff requests that the applicant identify these structural features, which are used to protect safety-related components from flooding, and discuss whether they should be within the scope of license renewal.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.

D-RAI 2.4-2

LRA Section 2.4.10 states that there is a wooden H-frame structure within each of the two transmission power lines. However, LRA Table 2.4-10 does not list the wooden H-frame as a structure within the scope of license renewal. The staff requests that the applicant justify its exclusion from the scope of license renewal.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.

D-RAI 2.4-3

The staff requests that the applicant clarify if the component type structural steel described in LRA Table 2.4-13 include the trash rack and stop log slots, guideways for the traveling water screens, and walls. If not, the staff requests that the applicant explain and justify its response.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.
The staff requests that the applicant clarify if the component type structural steel described in LRA Table 2.4-14 include the traveling screens. If not, the staff requests that the applicant explain and justify its response.

**Discussion:** The applicant stated that the traveling screens will be addressed in its response to RAI 2.3.3.14-2 submitted for the fire protection system. Therefore, this question is withdrawn and will not be sent as a formal RAI.

**AGING MANAGEMENT PROGRAMS**

**Concrete Containment Tendon Prestress**

**D-RAI B.3.3-1**

LRA Section B.3.3 states that procedures which list surveillance tendons will be extended to include random samples for the 40, 45, 50, and 55 year surveillances. The staff requests that the applicant discuss the differences between these enhanced procedures and the current procedures.

**Discussion:** The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.

**D-RAI B.3.3-2**

LRA Section B.3.3 states that “Procedures will be enhanced to explicitly require a regression analysis for each tendon group after every surveillance; and to invoke and describe regression analysis methods used to construct the lift-off trend lines, including the use of individual tendon data in accordance with Information Notice (IN) 99-10, “Degradation of Prestressing Tendon Systems in Prestressed Concrete Containments.” The staff requests that the applicant address the following:

1. Describe the enhanced procedures and requirements of the regression analysis for each tendon group after every surveillance
2. Discuss the difference between the current procedures and requirements and the enhanced procedures and requirements to be used during the period of extended operation
3. Describe the analysis methods used to construct the lift-off trend lines, and the difference between the current methods and the enhanced ones

**Discussion:** The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.
TIME-LIMITED AGING ANALYSIS

Concrete Containment Tendon Prestress Analysis

D-RAI 4.5-1

LRA Table 4.5-2 indicates that two tendon types, dome hoop and cylinder hoop, are combined into one horizontal hoop group. The total number of examined tendons for these two types was seven for the first, third, and fifth year surveillance, and three for the tenth, fifteenth, and twentieth year surveillance. Two dome hoop tendons were inspected at the first and third year surveillance; however, no dome hoop tendon was inspected after the third year surveillance. ASME Code Section XI, Subsection IWL-2520, “Examination of Unbonded Post-Tensioning Systems”, states that tendons on dome and cylinder shall be characterized into two different tendon types because of their geometry and position in the containment. In addition, Subsection IWL-2520 states that the minimum number of surveillance tendons is four for each type of tendons for the first, third, and fifth year surveillance, and three for the tenth, fifteenth, and twentieth year surveillance. The staff requests that the applicant justify this deviation from the ASME Code requirements.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.

D-RAI 4.5-2

LRA Table 3.5-2 states that the seven horizontal tendons forces at the first year surveillance were 1358.0 kips, 1359.0 kips, 1381.0 kips, 1409.0 kips, 1348.0 kips, 1422.0 kips, and 1387.0 kips. The average value of these seven tendons force is 1380.6 kips, which is different from the value of 1416.0 kips shown on LRA Figure 4.5-1. The staff requests that the applicant explain this discrepancy.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.

D-RAI 4.5-3

LRA Figure 4.5-1, Note 4, states that “The surveillance program predicted force lines were calculated per wire. The values plotted here assume 170 wires per tendon. Some tendons have fewer due to failure to meet acceptance criteria at installation, or due to removal for surveillance testing.” If the numbers of wires in a tendon is less than 170 due to failure to meet acceptance criteria at installation, or due to removal for surveillance testing, the predicted magnitude of force of that tendon based on the assumption of 170 wires would be higher than it should have been. Therefore, the staff requests that the applicant provide its basis for using the assumed 170 wires per tendon instead of using the actual numbers of wires per tendon to calculate the tendon force.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.
D-RAI 4.5-4

Based on the discussion of RAI's 4.5-2 and 4.5-3, the staff requests that the applicant establish a new trend line in LRA Figure 4.5-1 with actual prestressed tendon force. The trend line points should be calculated based on the actual number of wires multiplied by the lift-off-wire force.

Discussion: The applicant indicated that the question is clear. This D-RAI will be sent as a formal RAI.
DISTRIBUTION:

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