

April 9, 2007

Mr. Terry J. Garrett
Vice President Engineering
Wolf Creek Nuclear Operating Corporation
P.O. Box 411
Burlington, KS 66839

SUBJECT: REQUESTS FOR ADDITIONAL INFORMATION FOR THE REVIEW OF THE
WOLF CREEK GENERATING STATION, UNIT 1, LICENSE RENEWAL
APPLICATION

Dear Mr. Garrett:

By letter dated September 27, 2006, Wolf Creek Nuclear Operating Corporation submitted an application pursuant to 10 CFR Part 54, to renew the operating license for Wolf Creek Generating Station, Unit 1, for review by the U.S. Nuclear Regulatory Commission (NRC or the staff). The staff is reviewing the information contained in the license renewal application and has identified, in the enclosure, areas where additional information is needed to complete the review.

These requests for additional information were discussed with Lorrie Bell, and a mutually agreeable date for the response is within 30 days from the date of this letter. If you have any questions, please contact me at 301-415-3703 or e-mail VMR1@nrc.gov.

Sincerely,

/RA/

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

Docket No. 50-482

Enclosure:
Requests for Additional Information

cc w/encl: See next page

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NAME	SFiguroa	VRodríguez	RAuluck
DATE	04/04/07	04/09/07	04/09/07

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WOLF CREEK GENERATING STATION (WCGS), UNIT 1
LICENSE RENEWAL APPLICATION (LRA)
REQUEST FOR ADDITIONAL INFORMATION (RAI)

AGING MANAGEMENT REVIEW

Aging Management of Reactor Vessel, Internals, and Reactor Coolant System

RAI 3.1.2.2.3-1

LRA Section 3.1.2.2.3-1 states that since beltline materials remain limiting, nozzles were not evaluated separately. In accordance with 10 CFR Part 50, Appendix H, Section III, if the end of life (EOL) peak neutron fluence exceeds 10^{17} n/cm² (E > 1 MeV) the material must be monitored through a surveillance program. The staff requests that the applicant confirm that the increase in peak 60-year EOL fluence for the nozzles will not exceed this value. The staff requests that the applicant provide appropriate data for the inclusion of nozzle materials in the surveillance program, or explain how the nozzle materials are adequately monitored by the proposed aging management program.

TIME-LIMITED AGING ANALYSIS

Neutron Fluence, Upper Shelf Energy and Adjusted Reference Temperature

RAI 4.2.1-1

The staff requests that the applicant submit a table of the 60-year EOL upper shelf energy (USE) values for each beltline material. The heat numbers, material ID, copper content (weight-percent), initial USE, EOL 1/4 T fluence and the EOL 1/4 T USE should be included. In addition, the staff requests that the applicant discuss how surveillance results were evaluated in the determination of the USE values.

Pressurized Thermal Shock

RAI 4.2.2-1

The staff requests that the applicant submit a table of the 60-year EOL reference temperature for pressurized thermal shock (RT_{PTS}) values for each beltline material. The heat numbers, material ID, copper and nickel content (weight-percent), chemistry factor, initial RT_{NDT} , margin, EOL peak fluence, fluence factor, ΔRT_{PTS} , and EOL RT_{PTS} values should be included. In addition, the staff requests that the applicant discuss how surveillance capsule results were applied in the determination of the RT_{PTS} values.

Letter to T.Garrett from V.Rodriguez, date April 9, 2007

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