From:	Benney, Brian
To:	Wideman Steve G
Cc:	Burkhardt, Janet; Chen, Qiao-Lynn
Subject:	ME7674 RAIs
Date:	Tuesday, October 09, 2012 12:33:34 PM

Dear Mr. Wideman:

By letter dated November 30, 2011 (Agencywide Documents Access and Management System Accession No. ML11340A033), Wolf Creek Nuclear Operating Corporation (WCNOC) submitted a request for amendment to Technical Specifications (TS) 3.8.1, of the Facility Operating License No. NPF-42 for the Wolf Creek Generating Station. The changes would modify the TS Surveillance Requirements (SR) by providing surveillance enhancements that will improve operation and testing of the Emergency Diesel Generators (EDG) and will provide a more restrictive voltage and frequency band for operation when not connected in parallel with the offsite sources.

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the information provided by the licensee and determined that the additional information identified in the attachment is needed in order for the NRC staff to complete its review. The staff is requesting a written response to the RAIs no later than November 9, 2012.

Please contact me if you would like to have a clarifying conference call.

Thank you,
Brian Benney

REQUEST FOR ADDITIONAL INFORMATION
REGARDING WOLF CREEK GENERATING STATION
LICENSE AMENDMENT REQUEST TO CHANGE EMERGENCY DIESEL GENERATOR SURVEILLANCE REQUIREMENTS
TAC NO. ME7674

The Electrical Engineering Branch requested additional information (RAI) by letter dated June 14, 2012 (ADAMS # ML12166A404) and WCNOC provided responses by letter dated August 16, 2012 (ADAMS #ML12237A298). The staff has reviewed the responses and has the following supplemental question:

RAI question 2a requested information about motor operated valve (MOV) performance (accident analyses) with EDG operation at the lower end of the steady state TS allowable frequency coupled with the frequency and voltage variations allowed in RG 1.9 Rev. 3 during load sequencing. The licensee has indicated that the voltage and frequency variations may (emphasis added) have been included in the accident analysis performed using computer codes.

The nuclear steam supply system (NSSS) at WCNOC was provided by Westinghouse. As part of a PWR Owners Group initiative, Westinghouse has submitted a report “Treatment of Diesel Generator (DG) Technical Specification Frequency and Voltage Tolerances”

dated April 2012. This report is being reviewed by NRC staff. The report states that historically, the DG frequency and voltage tolerances are not considered in the development of NSSS component performance and MOV stroke times.

In response to Generic Letter (GL) 89-10 “Safety-Related Motor Operated Valve Testing and Surveillance” licensees evaluated MOV performance under degraded voltage conditions with worst case differential pressure across the critical valves. Most licensees did not evaluate MOV performance under varying frequency conditions. Based on the evaluations performed for critical MOVs identified in response to GL 89-10, provide details on the change in stroke time as a consequence of EDG operation at the lower end of the allowable frequency. Include the impact of frequency transients during EDG load sequencing.