



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

February 23, 2016

Mr. Shane M. Marik  
Site Vice President and Chief Nuclear Officer  
Omaha Public Power District  
Fort Calhoun Station  
9610 Power Lane, Mail Stop FC-2-4  
Blair, NE 68008

SUBJECT: FORT CALHOUN STATION, UNIT NO. 1 – REQUEST FOR ADDITIONAL  
INFORMATION RE: ADOPTION OF TSTF-501, REVISION 1 (CAC  
NO. MF6722)

Dear Mr. Marik:

By letter dated September 11, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15254A464), Omaha Public Power District submitted a license amendment request to adopt Technical Specifications Task Force (TSTF) Traveler TSTF-501, Revision 1, "Relocate Stored Fuel Oil and Lube Oil Volume Values to Licensee Control," at Fort Calhoun Station, Unit No. 1.

The U.S. Nuclear Regulatory Commission staff has reviewed the information provided in your application and determined that additional information is required in order to complete its formal review of your request. The enclosed questions were provided to E. Matzke of your staff on February 17, 2016. Please provide a response to the enclosed questions within 45 days of the date of this letter. If you have any questions, please contact me at 301-415-2296 or via e-mail at [Fred.Lyon@nrc.gov](mailto:Fred.Lyon@nrc.gov).

Sincerely,

A handwritten signature in black ink that reads "CF Lyon".

Carl F. Lyon, Project Manager  
Plant Licensing Branch IV-1  
Division of Operating Reactor Licensing  
Office of Nuclear Reactor Regulation

Docket No. 50-285

Enclosure:  
Request for Additional Information

cc w/encl: Distribution via Listserv

REQUEST FOR ADDITIONAL INFORMATION

LICENSE AMENDMENT REQUEST

OMAHA PUBLIC POWER DISTRICT

FORT CALHOUN STATION, UNIT NO. 1

DOCKET NO. 50-285

By letter dated September 11, 2015 (Agencywide Document Access and Management System (ADAMS) Accession No. ML15254A464), Omaha Public Power District (the licensee) submitted a license amendment request to adopt Technical Specifications Task Force (TSTF) Traveler TSTF-501, Revision 1, "Relocate Stored Fuel Oil and Lube Oil Volume Values to Licensee Control," at Fort Calhoun Station, Unit No. 1 (FCS).

The U.S. Nuclear Regulatory Commission staff has reviewed the information provided in the application and determined that additional information is required in order to complete its formal review of the request.

**RAI EPNB-1**

The submittal states that storage tanks FO-1 and FO-10 are both 18,000 gallon storage tanks. Please provide the usable capacity of each tank. If the usable capacity is greater than 16,000 gallons, discuss why more than 16,000 gallons cannot be stored in the tank to provide more margin for emergency diesel generator (EDG) testing.

**RAI EPNB-2**

In Section 3.0 of the submittal it states, in part that:

Since no piping existed between FO-1 and FO-10, operator action would be credited for the installation of a hose between the two tanks to allow transfer of fuel from FO-10 to FO-1 using a small motor-driven pump, (i.e., FO-37), which was originally installed to transfer fuel between FO-10 and the diesel driven auxiliary feedwater pump, FW-54. In the event of a failure of FO-37, a backup method of fuel transfer between the two tanks was a manually operated portable pump that required no external power source.

Please discuss how fuel will be transferred from FO-10 to FO-1 when pump FO-37 is in operation pumping fuel to the diesel driven auxiliary feedwater pump. Provide the flow rates of pump FO-37 and the manually operated portable pump.

**RAI EPNB-3**

Please provide the justification for selecting a 3 percent margin for stored fuel oil for EDG testing instead of the 10 percent margin required by the American Nuclear Standards Institute (ANSI) Standard N195-1976.

Enclosure

**RAI EPNB-4**

In Section 3.0 of the submittal, it states that the EDG fuel consumption calculation was revised to address the use of Ultra Low Sulfur Diesel fuel. The American Society for Testing and Materials (ASTM) D-975 allows up to 5 percent biodiesel in normal diesel fuel oil without labeling. Please discuss whether or not the EDG fuel consumption calculation accounts for this 5 percent biodiesel in the fuel oil, which could cause an increase in EDG fuel consumption.

**RAI EPNB-5**

In Section 4.0 of the submittal, it states that if 3,000 gallons (16,000 gallons FO-10 inventory minus 13,000 gallons dedicated to the EDG) of fuel oil in FO-10 is dedicated to the auxiliary boiler, its operating time is reduced to 20 hours at maximum fuel consumption rates. In Section 3.0, it states that, in 2002, it was recognized that the auxiliary feedwater pump diesel engine consumes fuel oil from the FO-10 tank. Please explain how the auxiliary feedwater pump diesel engine fuel oil consumption is accounted for if it is not included in the 3,000 gallons of fuel oil dedicated to the auxiliary boiler.

**RAI EPNB-6**

In Section 4.0 of the submittal, it states that the auxiliary boiler is not specifically credited for operation to mitigate design basis events. If it is not credited for operation to mitigate design basis events, please explain why fuel oil in tank FO-10 is reserved for the auxiliary boiler and cannot be reserved for the EDG.

Mr. Shane M. Marik  
 Site Vice President and Chief Nuclear Officer  
 Omaha Public Power District  
 Fort Calhoun Station  
 9610 Power Lane, Mail Stop FC-2-4  
 Blair, NE 68008

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Sincerely,

*/RA/*

Carl F. Lyon, Project Manager  
 Plant Licensing Branch IV-1  
 Division of Operating Reactor Licensing  
 Office of Nuclear Reactor Regulation

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**ADAMS Accession No. ML16048A024**

\*email dated

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