



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

November 24, 2015

Mr. Louis P. Cortopassi
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: FIFTH INSERVICE TESTING INTERVAL RELIEF
REQUESTS P-1 AND P-2 (CAC NOS. MF6651 AND MF6652)

Dear Mr. Cortopassi:

By letter dated August 27, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15239B214), Omaha Public Power District submitted relief requests for the fifth 10-year inservice testing program interval at Fort Calhoun Station, Unit No. 1 (FCS).

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 relief requests P-1 and P-2. The enclosed questions were provided to B. Hansher of your staff on November 19, 2015. 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.

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

RELIEF REQUESTS P-1 AND P-2

OMAHA PUBLIC POWER DISTRICT

FORT CALHOUN STATION, UNIT NO. 1

DOCKET NO. 50-285

By letter dated August 27, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15239B214), Omaha Public Power District submitted relief requests for the fifth 10-year inservice testing (IST) program interval at Fort Calhoun Station, Unit No. 1 (FCS).

The U.S. Nuclear Regulatory Commission staff has reviewed the information provided in your application and determined that the following additional information is required in order to complete its formal review of relief requests P-1 and P-2.

RAI P-1-1

Please provide the units of measure for the minimum flow and shutoff head values given in the table in Section 4.

RAI P-1-2

In Section 4, it states that while in an extended refueling outage, internal inspections and pump refurbishment were performed for pumps SI-1A, SI-1B, SI-3B, and SI-3C. Please explain why pump SI-3A was not inspected internally and not refurbished, and what has been done to conclude that pump SI-3A does not have degradation due to operating on mini-flow conditions during Group A testing. Also, provide the IST vibration data for the past 10 years for pump SI-3A.

RAI P-1-3

Please provide performance curves and net positive suction head curves for the pumps.

RAI P-1-4

Please provide the minimum continuous stable flow for each pump.

RAI P-1-5

Please describe the purpose of the minimum flow recirculation lines and to where they discharge.

Enclosure

RAI P-1-6

Please explain why these pumps are operated on mini-flow for Group A testing.

RAI P-1-7

Section 4 states, in part, that

The absolute limits for vibration of .325 in/sec for Alert and .70 in/sec for Required Action are too restrictive for the Ft. Calhoun Low Pressure Safety Injection (LPSI) and Containment Spray (CS) pumps during Group A testing as they are normally above those limits when tested.

Later in Section 4 it states, in part, that:

A review of Inservice Test (IST) history to date has determined these pumps have never exceeded the Required Action limits of ISTB-5131-1 during Group A or Comprehensive Pump Tests (CPTs).

Please explain this apparent contradiction.

RAI P-1-8

If spectral analysis is performed on the pumps, please provide the results for the past 10 years and discuss the results.

RAI P-2-1

Please discuss if plant operators will try to achieve the exact test flow or differential pressure (or discharge pressure) reference values during testing, or if they will only try to achieve a value in the reference band.

November 24, 2015

Mr. Louis P. Cortopassi
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: FIFTH INSERVICE TESTING INTERVAL RELIEF
REQUESTS P-1 AND P-2 (CAC NOS. MF6651 AND MF6652)

Dear Mr. Cortopassi:

By letter dated August 27, 2015 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML15239B214), Omaha Public Power District submitted relief requests for the fifth 10-year inservice testing program interval at Fort Calhoun Station, Unit No. 1 (FCS).

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 relief requests P-1 and P-2. The enclosed questions were provided to B. Hansher of your staff on November 19, 2015. 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.

Sincerely,

/RA/

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

DISTRIBUTION:

PUBLIC
RidsNrrDorLp4-1 Resource
RidsRgn4MailCenter Resource
LPL4-1 Reading
RidsNrrPMFortCalhoun Resource
RidsNrrDeEpn Resource
RidsACRS_MailCTR Resource
RidsNrrLAJBurkhardt Resource
RWolfgang, EPNB

ADAMS Accession No. ML15323A036

*email dated

OFFICE	NRR/DORL/LPL4-1/PM	NRR/DORL/LPL4-1/LA	NRR/DE/EPNB/BC	NRR/DORL/LPL4-1/BC	NRR/DORL/LPL4-1/PM
NAME	FLyon	JBurkhardt	DAlley*	RPascarelli	FLyon
DATE	11/23/15	11/19/15	11/18/15	11/24/15	11/24/15

OFFICIAL RECORD COPY