



11/22/85 - WCJ, RLA, MOG, JKG, RLJ, WGG, TLP, DDW, PMS, FAT, FFF,
JJF, MAT, RKS, DJM, TPM (2), TRR, RRM, FCFfile (2)

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

KRC-SS C306

November 5, 1985
NRC-85-0306

85-306 (3)
D-794

Docket No. 50-285

(LIC-84-0338)
(LIC-85-0142) ✓
(LIC-85-0364) ✓

Mr. R. L. Andrews
Division Manager - Nuclear Production
Omaha Public Power District
1623 Harney Street
Omaha, Nebraska 68102

Dear Mr. Andrews:

SUBJECT: ALTERNATE SHUTDOWN CAPABILITY FOR THE UPPER ELECTRICAL PENETRATION ROOM

We have reviewed your submittals of January 9, April 8, and August 30, 1985 regarding the above subject. Based upon our review of your submittals, we conclude that the alternate shutdown capability in the event of a fire in Fire Area 34B-West is acceptable. Our safety Evaluation is enclosed.

Sincerely,

Edward J. Butcher

Edward J. Butcher, Acting Chief
Operating Reactors Branch No. 3
Division of Licensing

Enclosure:
As stated

cc w/enclosure:
See next page

DATE	CODE
11/15/85	X, T, R
05/20/87	X, T, R
8/27/87	X, D

DRW# 397 REEL# _____
NOT REC.
X
R



RELATED TO: LIC-84-0338
LIC-85-0142
LIC-85-0364

052201

Mr. R. L. Andrews
Omaha Public Power District

Fort Calhoun Station
Unit No. 1

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

SAFETY EVALUATION BY THE OFFICE OF NUCLEAR REACTOR REGULATION
OMAHA PUBLIC POWER DISTRICT
FORT CALHOUN STATION, UNIT NO. 1
DOCKET NO. 50-285

1000001

We have reviewed the licensee's submittals dated January 9, April 8, and August 30, 1985, concerning an exemption requested for alternate shutdown capability for Fire Area 34B as required in 10 CFR 50 Appendix R. Fire Area 34B is the upper electrical penetration room and contains safe shutdown motor control centers and associated cables. This fire area has been divided by a three-hour rated fire barrier into Fire Areas 34B-East and 34B-West. In Fire Area 34B-West, the redundant backup pressurizer heater power feeder cables do not meet the separation requirements of Appendix R, Section III.G.2. In addition, a fire in this fire area could result in spurious opening of a PORV.

In the procedure developed by the licensee for a fire in Fire Area 34B-West, the first operation is for an operator to isolate the PORV by opening a breaker and thereby terminating the LOCA. The safe shutdown procedure requires only two operators and therefore adequate personnel will always be available independent of the fire brigade.

The reactor pressure, which is normally controlled by operation of the pressurizer heaters, will be controlled by controlling the flow rate of the auxiliary feedwater system (AFWS) in the event of the loss of all control to the backup pressurizer heaters. The AFWS and the controls to the AFWS to control reactor pressure are currently available and no modifications are required. No repairs are required for systems or equipment needed to achieve cold shutdown. The use of the AFWS as an alternative shutdown method for reactor pressure control has been previously reviewed and found acceptable in our SE for Fort Calhoun dated November 17, 1980 for a fire in the control room and cable spreading room.

Based on the above, we conclude that the alternate shutdown capability in the event of a fire in Fire Area 34B-West is acceptable.

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