

DCSMS-016

MAY 18 1984

Docket No. 50-285

DISTRIBUTION:

Mr. W. C. Jones
Division Manager, Production
Operations
Omaha Public Power District
1623 Harney Street
Omaha, Nebraska 68102

✓ Docket File	RKarsch
NRC PDR	BLaGrange
Local PDR	PShemenski
ORB#3 Rdg	ECase
DEisenhut	HDenton
OELD	
EJordan	
JNGrace	
ETourigny	
PMKreutzer	
ACRS (10)	

Dear Mr. Jones:

This is in response to your letter dated April 3, 1984 which requested an extension of the deadline for final environmental qualification of certain Fort Calhoun Station, Unit No. 1 electrical equipment. Your letter states that additional time will be required to complete documentation review, verify accuracy and complete similarity studies on a set of Foxboro transmitters installed at the Fort Calhoun Station. Your letter also states that additional time will be required to complete the environmental qualification of Conax electrical penetration assemblies, Rockbestos Pyrotrol III cable, and cable splices as installed at the Fort Calhoun Station.

You requested an extension until September 30, 1984 for the above specified equipment. Under the regulations in 10 CFR 50.49 which were published in the Federal Register on January 21, 1983 and made effective February 22, 1983, licensees of power reactors are required, among other things, to submit a schedule for either the qualification or replacement of, to the provisions of 50.49, the remaining electrical equipment important to safety not already identified as qualified. This schedule must establish a goal of final qualification of the electric equipment by the end of the second refueling outage after March 31, 1982 or by March 31, 1985 whichever is earlier. For Fort Calhoun, the second refueling outage after March 31, 1982 will end in early May 1984.

The regulations allow for the granting of requests for extension of the applicable deadline by the Director of the Office of Nuclear Reactor Regulation, to a date no later than November 30, 1985 for specified pieces of equipment if these requests are filed on a timely basis and demonstrate good cause for the extension, such as procurement lead time, test complications, and installation problems. In addition, 10 CFR 50.49 (h) provides that each licensee shall notify the Commission of any significant equipment problem that may require extension of the completion date provided in paragraph (g) of this section within sixty days of its discovery.

Enclosure 1 contains our summary of your justifications for deadline extension as contained in your April 3, 1984 letter. Regarding the Foxboro Transmitters, we note that you did not receive the test reports from the vendor until March 16, 1984. We also note that subsequent to receipt of

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P PDR

the test reports, you realized that it was necessary for you to perform a significant amount of work to complete the documentation of the equipment qualification. This includes reviews to resolve any anomalies, prove qualification by similarity, and verify accuracy. As such, you have met our requirements of notifying us within sixty days of the discovery of the problem. Therefore, we conclude that your deadline extension request regarding the Foxboro Transmitters was done on a timely basis; we also conclude that you have demonstrated good cause for your deadline extension request regarding the Foxboro Transmitters.

Your letter states that you have had a number of problems in qualifying the electrical penetration lead wire, splice, and cable systems. These systems encompass the Conax penetrations, the Rockbestos Pyrotrol III cables, and cable splices for qualification purposes. We note that you have had an excessive leakage problem that was resolved in time. We also note that some test material was inadvertently destroyed in mid-February 1984. You have subsequently resolved this later problem, and the systems are presently being tested. In addition, you recently realized that full qualification could not be completed by the current deadline. As such, you have met our requirements of notifying us within sixty days of the discovery of the problem. Therefore, we conclude that your deadline extension request regarding this equipment was done on a timely basis; we also conclude that you have demonstrated good cause for your deadline extension request for this equipment.

Based on the foregoing, I find that your request for extension was filed on a timely basis and demonstrates good cause for an extension of time to complete final environmental qualification of the specified equipment. An extension is therefore granted until September 30, 1984 for the specified Fort Calhoun Station electric equipment.

Sincerely,

Original Signed by
H. R. Denton

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Enclosure:

- 1. Fort Calhoun Electric Equipment
Requiring a Deadline Time Extension
for Environmental Qualification

cc: See next page

*See previous concurrence page

ORB#3:DL*	ORB#3:DL*	ORAB*	EQB*	OELD*	AD:OR:DL*
PKreutzer	ETourigny:dd	GHolahan	VNoonan	MKarman	GCLainas
4/24 /84	4/24/84	4/25/84	4/27/84	4/27/84	5/7/84

D:DIR:*
DEisenhut
5/8/84

NRR
HRDenton
5/11/84

Handwritten signature
NRR
ECase
5/15/84

the test reports, you realized that it was necessary for you to perform a significant amount of work to complete the documentation of the equipment qualification. This includes reviews to resolve any anomalies, prove qualification by similarity, and verify accuracy. As such, you have met our requirements of notifying us within sixty days of the discovery of the problem. Therefore, we conclude that your deadline extension request regarding the Foxboro Transmitters was done on a timely basis; we also conclude that you have demonstrated good cause for your deadline extension request regarding the Foxboro Transmitters.

Your letter states that you have had a number of problems in qualifying the electrical penetration lead wire, splice, and cable systems. These systems encompass the Conax penetrations, the Rockbestos Pyrotrol III cables, and cable splices for qualification purposes. We note that you have had an excessive leakage problem that was resolved in time. We also note that some test material was inadvertently destroyed in mid-February 1984. You have subsequently resolved this later problem, and the systems are presently being tested. In addition, you recently realized that full qualification could not be completed by the current deadline. As such, you have met our requirements of notifying us within sixty days of the discovery of the problem. Therefore, we conclude that your deadline extension request regarding this equipment was done on a timely basis; we also conclude that you have demonstrated good cause for your deadline extension request for this equipment.

Based on the foregoing, I find that your request for extension was filed on a timely basis and demonstrates good cause for an extension of time to complete final environmental qualification of the specified equipment. An extension is therefore granted until September 30, 1984 for the specified Fort Calhoun Station electric equipment.

Sincerely,

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

Enclosure:

1. Fort Calhoun Electric Equipment
Regarding a Deadline Time Extension
for Environmental Qualification

cc: See next page

ORB#3:DL
RKreutzer
4/24/84

ORB#2:DL
ETourigny:dd
4/20/84

ORB#1:DL
GHolahan
4/25/84

EQB
VNoonan
4/27/84

DEisenhut
5/8/84
M. KARMAN
4/27/84

NRR
HRDenton
4/ /84
ADJ:DL
GCLainas
5/7/84

NRR
ECase
5/ /84

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4/25/84

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Omaha Public Power District

cc:

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ENCLOSURE 1FORT CALHOUN ELECTRIC EQUIPMENT REQUIRING A DEADLINETIME EXTENSION FOR ENVIRONMENTAL QUALIFICATION

<u>Equipment Description</u>	<u>TER Equipment Item No.</u>	<u>NRC Category</u>	<u>Justification</u>
Foxboro Transmitters (See Table 1)	1, 2, 3, 4	II.A	<p>The transmitters were procured from 1979 to 1982 to meet I&E Bulletin 79-01B or TMI requirements. At the time of procurement, these were required to be qualified to IEEE-323-1971 with IEEE-323 1974 qualification pending. Testing on these transmitters to IEEE-1974 was completed on August 10, 1983. OPPD received the test reports from the vendor on March 16, 1984. Presently, OPPD is in the process of reviewing the test reports and has concluded that, because of the complexity of testing, it will take significant effort on OPPD's part to complete this review to resolve any anomalies, prove qualification by similarity, and to verify accuracy. Because of the above, a deadline time extension is necessary.</p>

Enclosure 1 Cont'd

<u>Equipment Description</u>	<u>TER Equipment Item No.</u>	<u>NRC Category</u>	<u>Justification</u>
Electrical Penetration Lead Wire, Splice and Cable Systems	85, 86, 87, 88, 89, 92, 99, 103	II.A for all items except II.C for item number 86	In order to meet a strict interpretation of the DOR Guidelines, OPPD concluded in 1981 that additional electrical penetration testing was necessary. The initial testing began in 1982 and consisted of the 40 year accelerated aging test. Excessive leakage was found in contrast to no leakage found as part of the plant's surveillance test program. The Commission was notified regarding this excessive leakage problem in 1982. The test program was delayed and a research program was conducted to identify the failure mechanism. The problem was identified as a cold flow problem and was corrected in 1983. The test program was then restarted. Due to a communication problem, the aged cable splices were destroyed in mid-February 1984. This problem was resolved and aging began on March 20, 1984. Because of the problems encountered, a deadline time extension is necessary.

TABLE 1
FOXBORO TRANSMITTERS

<u>Transmitter</u>	<u>FRC#</u>	<u>Category</u>
FT-313	1	2
FT-316	1	2
FT-319	1	2
FT-322	1	2
A/B/C/D PT-102	2	2
PT-103X	2	2
PT-103Y	2	2
A/B/C/D PT-902	2	2
A/B/C/D PT-905	2	2
LT-101X	3	3
LT-101Y	3	3
A/B/C/D LT-901	4	3
A/B/C/D LT-904	4	3
FT-416	-	2
FT-417	-	2
FT-418	-	2
FT-419	-	2
FT-328	-	2
FT-330	-	2
FT-332	-	2
FT-334	-	2
FT-1109	-	3
FT-1110	-	3
LT-1183	-	3
LT-1188	-	3
PT-105	-	3
PT-115	-	3
PT-783	-	1
PT-784	-	1
PT-785	-	1
PT-786	-	1
A/B/C/D LT-911	-	1
A/B/C/D LT-912	-	1
A/B/C/D PT-913	-	1
A/B/C/B PT-914	-	1

Category 1: 4-20 mA output Foxboro Model N-E13DM and N-E11GM Transmitters.

Category 2: 10-50 mA output Foxboro Model N-E11GM, N-E13DH, and N-E13DM Transmitters shipped after Dec. 1981.

Category 3: 10-50 mA output Foxboro Model N-E13DM, N-E11GH, N-E13DH Transmitters shipped prior to Jan. 1982.