UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76011

May 26, 1982

MEMORANDUM FOR: Brian K. Grimes, Director, Division of Emergency Preparedness

FROM: John T. Collins, Regional Administrator, Region IV

SUBJECT: A 10 CFR 50.54(s)(2) LETTER TO NEBRASKA PUBLIC POWER DISTRICT (NPPD) - DOCKET 50-298

In my memo to you of May 24, 1982, I indicated to you that my staff had a telephone conversation with J. Pilant, Licensing Manager, NPPD, on May 21, 1982, concerning the public notification system (PNS) for the Cooper Nuclear Station and the need for NPPD to upgrade this sytem. As a result of this conversation, NPPD committed to send me a letter by COB Monday, May 24, 1982, outlining such a program. Attached to this memo is a letter to me from J. Pilant, NPPD, dated May 24, 1982, in which they describe what actions NPPD is taking to upgrade the PNS. Based on this letter, NPPD will make tone alert (EBS) radios available for all residences within the 0-10 mile EPZ that are not covered by fixed sirens. They will also install one more fixed siren near Rockport. NPPD has committed to have the system fully operational by the end of the present refueling outage, or July 1, 1982.

It should be noted that Cooper Nuclear Station went down on Friday, May 21, 1982, for a scheduled refueling outage and will be down until July 1, 1982.

On May 26, 1982, I sent NPPD a letter (copy attached) acknowledging receipt of their May 24, 1982, letter and informing them that we will continue to monitor their activites associated with the installation of the tone-alert systems. We also requested that they promptly notify us should they find that they cannot meet the dates committed to in their letter.

On the basis of the commitment from NPPD to upgrade their public notification system, I do not intend to take any additional action at this time, such as issuing a 50.54(s)(2) letter.

John T. Collins
Regional Administrator

Attachments:
As stated

cc w/attachments
R. DeYoung, IE
J. Lieberman, IE
J. Gagliardo, RIV
E. Johnson, RIV
C. Hackney, RIV

(9)

UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION IV
611 RYAN PLAZA DRIVE, SUITE 1000
ARLINGTON, TEXAS 76011

May 26, 1982

Docket: 50-298

Nebraska Public Power District
ATTN: J. M. Pilant, Division Manager
Licensing & Quality Assurance
P. O. Box 499
Columbus, Nebraska 68601

Gentlemen:

Subject: Nebraska Public Power Update of the Public Notification System.

This letter is to acknowledge receipt of your letter dated May 24, 1982, concerning your Public Notification System (Early Warning System) modification. Presently my staff is reviewing your proposal, and I will maintain contact with you on your progress.

I understand that the tone alert radios will replace the mobile sirens for prompt public notification. If for any reason you can not meet the July 1, 1982, system operational date, contact this office, as soon as, you become aware of any schedule problems.

If you have any questions, please contact this office.

Sincerely,

John T. Collins
Regional Administrator

cc: L. C. Lessor, Superintendent
Cooper Nuclear Station
P. O. Box 98
Brownville, Nebraska 68321

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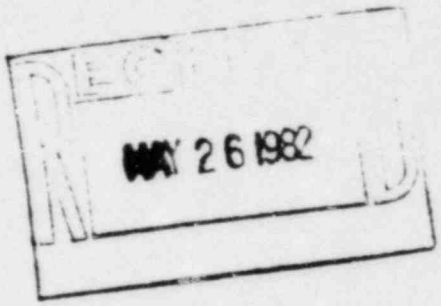
PDR-LPDR

Nebraska Public Power District

GENERAL OFFICE
P.O. BOX 499 COLUMBUS, NEBRASKA 68601-0499
TELEPHONE (402) 564-8561

May 24, 1982



Mr. John T. Collins
Regional Administrator
U.S. Nuclear Regulatory Commission
Region IV
Suite 1000
611 Ryan Plaza Drive
Arlington, Texas 76011

Reference: 1) Letter to J. M. Pilant from J. T. Collins dated March 12, 1982.

2) Letter to J. M. Pilant from J. T. Collins dated April 29, 1982.

3) Letter to J. M. Pilant from J. T. Collins dated May 13, 1982.

Dear Mr. Collins:

The purpose of this letter is to update you on what actions NPPD is taking concerning the Early Warning System (EWS) per the above-referenced letters.

Concerning Items 2 and 3 of Reference Letter (1), the District conducted a mobile route reanalysis, wherein there were identified components and methods not considered optimum for performing the required notifications. This occurred primarily in the 0-5 mile EPZ. As a result of this reanalysis, the District has completed redesign of the EWS in the 0-10 mile EPZ that would better meet the needs of the District and the general public. This redesign was done using the design criteria of NUREG 0654 (i.e., to notify a large portion of the population within the 0-10 mile EPZ within 15 minutes).

Consistent with the above, the District's Board of Directors recently approved funding for procuring additional equipment deemed necessary as a result of the redesign of the EWS.

NPPD has concluded as a result of the EWS redesign that it will make tone alert (EBS) radios available for all residences within the 0-10 mile EPZ that are not covered by fixed sirens. Additionally, NPPD will install one more fixed siren near Rockport at the exit off of Interstate 29.

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PDR-LPDR

The EBS tone alert radios will be used as the primary means of notification in the 0-10 mile EPZ in areas that are not covered by fixed sirens, and the mobile siren system will only be used as a backup means of notification. The District feels that the mobile system can still be an effective backup system even though the notification times exceed the design criteria. The EBS tone alert radios with the mobile siren system as a backup provide an ideal system because these systems 1) are not affected by a loss of off-site power, 2) are not solely an outdoor warning system as are fixed sirens, and 3) can effectively function in most adverse weather situations depending upon the precise notification requirements. The mobile sirens are not a part of the CNS EWS system and will be turned over entirely to the local agencies for maintenance; however, fire departments historically have demonstrated excellent care for emergency equipment. The exact breakdown of what part of the population is covered by what system (EBS radios or fixed siren) is shown on Enclosure 1.

As a result of the placement of EBS tone alert radios, the District will be providing essentially 100% area coverage in the 0-10 mile EPZ (see Enclosure 1).

The District's intended schedule concerning procurement and distribution of the EBS radios is as follows:

1. Order for radios placed - Week of May 24, 1982.

2. System fully operational - by the end of the present refueling outage or July 1, 1982.

The District has been informed that the FCC requires tests of the EBS alert on a weekly basis. A card will be on the radio that notifies the user that if during a system test their radio does not function, they should contact the Columbus General Office.

If you have any questions or require additional information, please contact me.

Sincerely,

Jay M. Pilant
Division Manager of Licensing
and Quality Assurance

JMP/gmc:kz24/3R3
Enclosures

Enclosure 1

POPULATION COVERAGE FOR FIXED SIRENS AND EBS RADIOS

(Estimated in January, 1981)

Population Data

Nebraska 5 mile zone population	=	610
Nebraska 5-10 mile zone population	=	2315
Nebraska 10 mile zone total population	=	2925
Missouri 5 mile zone population	=	475
Missouri 5-10 mile zone population	=	3025
Missouri 10 mile zone total population	=	3500
Total Population of 10 mile EPZ	=	6425

Population Centers Within the 5 Mile Zone with Fixed Sirens

Brownville, Nebraska area	=	201
Nemaha, Nebraska area	=	212
Phelps City, Missouri area	=	90
Langdon, Missouri area	=	42

Percent Coverage = $\frac{545}{1085}$ = 50.2%

Note: 16.9% of the 10 mile EPZ population resides within the 5 mile zone

Population Centers within the 5-10 Mile Zone with Fixed Sirens

Peru, Nebraska area	=	1425
Shubert, Nebraska area	=	244
Rockport, Missouri area	=	1625
Watson, Missouri area	=	192
Nishnabotna, Missouri area	=	25

Percent Coverage = $\frac{3511}{5340}$ = 65.7%

Total 10 Mile EPZ Coverage by Siren = $\frac{4056}{6425}$ = 63.1%

Residents within the 5 Mile Zone with EBS Radios

Total Population	=	1085
Residents not Covered by a Fixed Siren	=	1085 - 545 = 540
Percent Coverage by Radio	=	49.8%

Residents within the 5-10 Mile Zone with EBS Radios

Total Population	=	5340
Residents not Covered by a Fixed Siren	=	5340 - 3511 = 1829
Percent Coverage by Radio	=	34.25%

Total 10 Mile EPZ Coverage by Radio = $\frac{2369}{6425}$ = 36.9%