

Nebraska Public Power District

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GENERAL OFFICE

May 24, 1982

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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.

- Letter to J. M. Pilant from J. T. Collins dated April 29, 1982.
- 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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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 offsite 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 I.

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 I).

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 informaticn, please contact me.

Sincerely,

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Jay⁾M. Pilant Division Manager of Licensing and Quality Assurance

JMP/gmc:kz24/3R3 Enclosures

Enclosure I

POPULATION COVERAGE FOR FIXED SIRENS AND EBS RADIOS

(Estimated in January, 1981)

Population Data

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

Population Centers Within the 5 Mile Zone with Fixed Sirens

Brownville, Nebraska area = 201 Nemaha, Nebraska area = 212 Percent Coverage = $\frac{545}{1085}$ = 50.2% Phelps City, Missouri area = 90 = 42 Langdon, Missouri area

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

Rockport, Missouri area = 244 Watson, Missouri area = 1625 Percent Coverage = $\frac{3511}{5340}$ = 65.7% Nishnabotna, Missouri Peru, Nebraska area = 1425 Nishnabotna, Missouri area = 25

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 = 49.8% Percent Coverage by Radio

Residents within the 5-10 Mile Zone with EBS Radios

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

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