

June 29, 1981

FOR INTER-DISTRICT BUSINESS ONLY

Columbus General Office

Subject INDIVIDUAL D-4 (One letter should cover only one subject)

To - Columbus General Office
(Name - Location)

The following information concerning the early warning system of the Cooper Nuclear Station pertains to nine (9) fixed sirens, thirty-two (32) volunteer firemen using mobile sirens, and six sheriffs' cruisers.

1. Siren Status

- A. The nine (9) fixed sirens have been installed. Of the nine (9) two (2) have electric power at this time. One siren, at Longhorn, Missouri, must be moved due to an error in location and one siren at Peru, Nebraska, is on hold of further construction until July 1, 1981. At that time the mayor and city council will decide if that siren must be moved. If there are no further delays, the Longhorn siren relocations, possible relocation of the Peru siren, and power hook up will be completed by July 10, 1981.
- B. All of the mobile siren equipment has been received at the Cooper Station warehouse as of this date. This equipment will be distributed to local fire departments by July 10, 1981.
- C. Tone Encoders which control the activation of the fixed sirens have been delayed. Due to a computer misprint at the factory only one (1) encoder was shipped with the sirens. Six (6) more encoders are due to arrive by July 3, 1981.

2. Siren Control

- A. Primary control of the fixed sirens is at the Sheriff's Dispatch Office in Rock Port, Missouri, and Auburn, Nebraska. This primary control is for incidents connected to the nuclear plant.
- B. Control of mobile siren equipment will rest with the volunteer fire departments in Rock Port and Watson, Missouri; Peru, Brownville, Nemaha, and Shubert, Nebraska. This equipment will be operated by volunteer firemen.
- C. Six (6) of the fixed sirens are designed with a third fire signal to be used by the local government for local emergencies. These towns will also have encoders to control their siren. Local emergencies include fire and tornados.

3. Interim Period

During the installation period of the fixed sirens and until all mobile equipment is distributed, the local Sheriff's Departments and Fire Departments have agreed to use existing mobile equipment to warn in the event of an incident at the nuclear plant. Present plans also include using the existing phone systems.

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EXHIBIT (1)

KEEP A CARBON COPY

INDIVIDUAL D-4

Page Two
June 26, 1981

4. Due to delays incurred during installation of the fixed sirens, the system will not be ready for testing until about July 20, 1981. This is providing there are no further delays after the meeting in Peru, Nebraska, on July 1, 1981. All of the mobile equipment should be received and distributed by this date also.

INDIVIDUAL D-3

Engineering Manager

RDB/meh:sdd26/8

Nebraska Public Power District

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

LQA8100215

June 30, 1981

Mr. Darrell G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Post TMI-Requirements/NUREG 0737
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

- Reference:
- 1) Letter from D. G. Eisenhut to All Licensees
Dated October 31, 1980
 - 2) Letter from J. M. Pilant to D. G. Eisenhut
Dated December 30, 1980, "Post TMI-
Requirements/Action Plan"
 - 3) Letter from J. M. Pilant to D. G. Eisenhut
Dated June 9, 1981, "Emergency Response
Facilities"
 - 4) Letter from J. M. Pilant to H. R. Denton
Dated January 2, 1981, "Emergency
Preparedness Plans"

Dear Mr. Eisenhut:

Reference 1 required Nebraska Public Power District to complete or address certain TMI Action Plan Requirements by July 1, 1981. Attached are discussions of the applicable items.

If additional clarification on any item is necessary, please contact me.

Sincerely,

bcc: NRC Distribution
Emergency Plan Distribution
L. P. Schakat
W. L. Thalken
L. P. Kohles
R. O. Peterson
B. K. Grimes (NRC)
K. V. Seyfrit (NRC)

INDIVIDUAL D-2

Director of Licensing
and Quality Assurance

JMP:JDW:cmk

Attachment

EXHIBIT (2)

NEBRASKA PUBLIC POWER DISTRICT
COOPER NUCLEAR STATION
NUREG 0737 IMPLEMENTATION
EFFORTS REQUIRED AS OF JULY 1, 1981

II.B.1 - Reactor Coolant System Vents:

The District concurs with the BWR Owner's Group position that adequate design features presently exist for the BWR at CNS. No additional design changes are planned.

II.D.1 - Performance Testing of Reactor Relief and Safety Valves:

The BWR Owner's Group will transmit the preliminary BWR S/RV test program results by letter dated July 1, 1981 from T. J. Dente to D. G. Eisenhut. The results which demonstrate the operational adequacy of the Model 7567F 2-stage Target-Rock valves at CNS will be provided as preliminary data sheets. The District's preliminary review of the test program results confirms that the test program demonstrates the valves satisfy the acceptance criteria for operability. The test conditions were defined in a letter from D. B. Waters to R. H. Vollmer dated September 17, 1980 and Owner's Group responses to NRC questions were transmitted in a letter from D. B. Waters to D. G. Eisenhut dated March 31, 1981.

II.E.4.1 - Dedicated Hydrogen Penetrations:

The CNS licensing basis does not include hydrogen recombiners or penetrations; however, at the request of the NRC the District has implemented a design change to allow containment venting for combustible gas control without opening the large primary containment purge valves.

II.E.4.2 - Containment Isolation Dependability:

Position 7 required that the containment purge and vent isolation valves close on a high radiation signal. The design of the CNS containment system is such that both redundant (motor and air operated) drywell and suppression chamber purge inlet and outlet valves close on a reactor building exhaust plenum high radiation signal. Additional details concerning these radiation monitors and valve closure were provided in letters from J. M. Pilant to T. A. Ippolito on December 18, 1979 and February 8, 1980. Additionally, the District concurs with the BWR Owner's Group evaluation of this item which was transmitted by letter from T. J. Dente (BWROG) to D. G. Eisenhut dated June 29, 1981. Based upon the existing monitoring capabilities and dose considerations additional modifications are not considered necessary.

II.F.1 - Accident Monitoring-Noble Gas Monitoring and Iodine/Particulate Sampling:

The appropriate sampling capabilities are required to be installed by January 1, 1982, and the District stated in Reference 2 that it was anticipated that our installation of these two items will not deviate

from the NRC position stated in NUREG 0737. Although the NRC requires no response to this item at this time, the District feels constrained to inform the staff that after competitively bidding the instrumentation and finding all bids non-responsive according to Nebraska State Law, additional negotiation must take place to procure the instruments. This process may result in hardware delivery such that the January 1, 1982 installation date may not be met. In any event, it is contemplated that this system will be installed and operable by the end of the spring 1982 outage.

II.F.1 - Accident Monitoring-Containment Hydrogen Instrumentation:

This item requires measurement capability over the range of 0 to 10% hydrogen concentration by January 1, 1982. The system presently installed at CNS meets all of the NUREG 0737 requirements except that one hydrogen analyzer has a range of 0-5% while the other is 0-20%. The 0-5% range instrument was installed to meet the accuracy/sensitivity requirements associated with actuation of the CNS ACAD system. This ACAD system is installed but the NRC has not as yet licensed the system for operation. For this reason, the District does not intend to alter the present system design and hydrogen monitoring capabilities.

II.F.1 - Accident Monitoring-Containment High-Range Radiation Monitor:

NUREG 0737 required that the District submit deviations, if any, from the requirements at this time. It is anticipated that the required modification will be completed by January 1, 1982 contingent upon receipt of materials. Details of the final design, which meets the NRC requirements, are available for NRC review if required.

II.K.3.13 - Separation of HPCI and RCIC System Initiation Levels:

The analysis regarding RCIC automatic reset, which was submitted to the NRC by General Electric, has been reviewed by the District, and modifications have been completed which implement the NUREG 0737 recommendations.

II.K.3.15 - Modification of Break Detection to Prevent Spurious Isolation of HPCI and RCIC Systems:

The necessary design change has been completed to eliminate any spurious isolations during a normal system start transient.

II.K.3.24 - Space Cooling for HPCI and RCIC:

The HPCI and RCIC room coolers receive power from the emergency buses and can, therefore, operate as designed during a loss of offsite power. The capacity of the coolers are such that the systems can operate for greater than two hours.

II.K.3.25 - Effect of Loss of AC Power on Recirculation Pump Seals:

A copy of the BWR Owner's Group evaluation of this event has been provided directly to the NRC by the BWR Owner's Group. The District concurs with the conclusions of this evaluation.

Two systems provide cooling to the recirculation pump seal. If either one of these systems is operating, recirculation pump operation without the second cooling system may continue with no harm to the seals. If both seal cooling systems are inoperable, the pump seals will overheat approximately 7 minutes after the total loss of cooling and seal deterioration will begin.

Based on fluid loss analysis of extremely degraded seals, the leakage is less than 70 gallons per minute. This amount of leakage will not lead to a safety concern but may degrade the seals such that they would have to be repaired prior to resuming operation. Consequently, no change in design is necessary or proposed.

II.K.3.27 - Common Reference Level for Reactor Vessel Level Instrumentation:

The modifications committed to in our response of February 27, 1981 have been completed so that all level instruments are referenced to the same point.

III.A.2 - Emergency Preparedness-Meteorological Program Description:

A functional description of the upgraded programs and schedule for installation and full operational capability is required by NUREG 0737 to be provided at this time. Attachment 2 is a preliminary development plan for the meteorological monitoring system at CNS which provides the functional description. This preliminary plan is presently undergoing review and some of the information such as instrument vendors, etc., may be subject to change.

In Reference 3 the District provided a description and schedule for the integrated computer change-out program which is required to meet other aspects of NUREG 0737. Since various functions of the meteorological monitoring systems will be performed by the new process computer at CNS, the schedule for installation and full operational capability of the met. system are best defined by the schedules provided in Reference 3.

III.A.2 - Emergency Preparedness - Early Warning System:

In Reference 4 the District submitted a definition of the Early Warning System (EWS) which was being procured in order to meet the July 1, 1981 implementation date, and NRC concurrence with the plan was requested. The following status information pertains to nine (9) fixed sirens, thirty-two (32) volunteer firemen using mobile sirens, and six (6) sheriffs' cruisers which comprise the EWS.

The total of nine fixed sirens have been installed. Of the nine, two have electric power at this time; however, one siren, at Langdon, Missouri, must be moved due to an error in location and one siren at Peru, Nebraska, may require additional work pending local authorities deciding if that siren must be moved. It is anticipated that all sirens will be operational by mid-July. All of the mobile siren equipment has been received and will be distributed to local fire departments during July. The tone encoders which control the activation of the fixed sirens have been received.

Primary control of the fixed sirens is at the Sheriff's Dispatch Office in Rock Port, Missouri, and Auburn, Nebraska. This primary control is for incidents connected to CNS. Control of mobile siren equipment will rest with the volunteer fire departments in Rock Port and Watson, Missouri; Peru, Brownville, Nemaha, and Shubert, Nebraska. This equipment will be operated by the volunteer firemen. Six of the fixed sirens are designed with a third fire signal to be used by the local government for local emergencies. These towns will also have encoders to control their siren. Local emergencies include fire and tornados.

During the installation period of the fixed sirens, and until all mobile equipment is distributed, the local Sheriff's Departments and Fire Departments will utilize existing mobile equipment as warning devices as defined in the various state and local plans submitted in Reference 4. Present plans also include use of the existing phone systems.

The siren system will be ready for testing approximately July 31, 1981 pending no further delays by the Peru authorities. All of the mobile equipment should also be received and distributed by this date.

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ACTION-ID 11, A.2(P2)

EMERGENCY PREPAREDNESS -
SIRENS

BOYLE RD : 810701

NUREG 0654 APPENDIX 3

BOYLE RD

ACTION : SIRENS INSTALLED

CLOSE DATE : 810701

EXECUTIVE SUMMARY

001: *** STATUS ***

002:

003: APPENDIX 3 TO NUREG 0654 PROVIDES DETAILS. WORK ORDERED FOR \$562.2K

004: ON 810428 BUT ONLY 9 OF THE 23 FIXED SIRENS WILL BE INITIALLY

005: INSTALLED. 32 MOBILE SIRENS WILL BE USED. THE 14 ADDITIONAL FIXED

006: SIRENS IF REQUIRED BY FEMA WILL COST \$318K OF \$562K. PILANT TO

007: DENTON LETTER 810102 GAVE DEFINITION OF EWS. LETTER PILANT TO

008: EISENHUT 810630 GAVE UPDATED STATUS OF EWS PER DAVE ROHRER'S

009: REQUEST. NRC IS BACKING COMPLETION DATE OFF TO 820201.

EXHIBIT (3)

February 1, 1982

MEMORANDUM FOR: Brian K. Grimes, Director, Division of Emergency Preparedness
Office of Inspection and Enforcement

FROM: John T. Collins, Regional Administrator

SUBJECT: LICENSEE COMPLIANCE WITH THE FEBRUARY 1, 1982 DEADLINE
FOR A PROMPT NOTIFICATION SYSTEM

Region IV reports indicate that Arkansas Nuclear One Units 1&2, Fort Calhoun and Cooper have installed and tested their prompt notification systems. Presently, Ft. St. Vrain reports that they have delivered approximately 99% of their alert radios, conducted a radio reception test in their 5 mile EPZ, and verified reception at each installation (reception test when delivered). I am sending an inspector to Ft. St. Vrain on February 2, 1982, unannounced, to verify their status.

Unless Public Service of Colorado is incorrect in their status report, I conclude that all of the licensees in Region IV are in compliance with the February 1, 1982 deadline for implementation.

John T. Collins
Regional Administrator

cc: R. DeYoung
G. Haisen
J. Nickman
C. Wisner
J. Montgomery
J. B. Baird
C. Hackney

Nebraska Public Power District

GENERAL OFFICE
P.O. BOX 499, COLUMBIA, NEBRASKA 68601-0499
TELEPHONE 402-564-8551

LOA8200081

February 8, 1982

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

Subject: Early Warning System

Reference: 1) Letter, *INDIVIDUAL D-2* to H. R. Denton
dated January 2, 1981, "Emergency
Preparedness Plans"

Dear Mr. Collins:

As requested by your staff, this letter is to confirm that the early warning system for Cooper Nuclear Station, as described in Reference 1, has been installed and is operational. During a test conducted on August 15, 1981, one deficiency was noted. This deficiency was corrected and subsequently tested satisfactorily on August 22, 1981.

If you have any further questions on this matter, please contact my office.

Sincerely,

INDIVIDUAL D-2
Division Manager of Licensing
and Quality Assurance

JMP:KCW:cmk

bcc: E.P. Distribution
NRC Distribution



Nebraska Public Power District

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

January 2, 1981

Director of Nuclear Reactor Regulation
Attention: Mr. Harold R. Denton
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Emergency Preparedness Plans
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

Dear Mr. Denton:

The final regulations on Emergency Planning require the submittal of 10 copies of radiological emergency response plans for Cooper Nuclear Station and state and local entities within the emergency planning zones by January 2, 1981. Enclosed are the required number of the following plans:

1. Cooper Nuclear Station Emergency Plan - January 2, 1981
2. Nebraska Radiological Emergency Response Plan for Nuclear Power Plant Incidents - January 1981
3. State of Missouri Emergency Operations Plan, Section A to Part 3, Interim Nuclear Accident Plan - 1980 Draft Copy
4. State of Kansas - Annex A - Fixed Nuclear Facilities Incidents Response Plan - 1978 as Revised per August 1979
5. Iowa Emergency Plan - Draft 1981 version - 99% complete
6. Atchison County Nuclear Emergency Response Plan
7. Nemaha County Radiological Emergency Response Plan for Nuclear Power Plant Incidents - January 1981
8. Richardson County Radiological Emergency Response Plan for Nuclear Power Plant Incidents - December 1979

For varying reasons several of these plans do not meet all of the requirements of NUREG-0654 (Rev. 1) "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans for Preparedness in Support of Nuclear Power Plants". In the case of the District's CNS Plan the reason is that we have not as yet received the final version of NUREG-0654 (Rev. 1) from the NRC. As these various plans are revised and meshed together to meet the April 1, 1981 implementation date, revisions will be submitted.

The new rules require that the Emergency Plan implementing procedures be provided for NRC review by March 1, 1981. Ten copies of the procedures are also included at this time.

It is understood that in accordance with Appendix 2 to NUREG-0654 (Rev. 1) a description of our plan to meet the various meteorological criteria is to

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be submitted at this time; however, in the absence of the criteria the plan will be submitted prior to March 1, 1981. The District intends to be fully responsive to the intent of Appendix 2 and all implementation dates will be met contingent upon availability of hardware and resources for conducting the required studies and developing the required designs.

The District has commenced procurement of an Early Warning System as defined in Attachment 1. In order to meet the July 1, 1981 implementation date NRC concurrence with this plan is requested at the earliest possible date.

It should be noted that the District submitted a Class III fee in the amount of \$4,000 for review and approval of the previous CNS Emergency Plan. This fee submittal was in response to a NRC License Fee Management Branch letter dated March 19, 1979 and our plan was subsequently never reviewed or approved by the NRC.

If there are any questions, please do not hesitate to call.

Sincerely,

INDIVIDUAL D-2

Director of Licensing
and Quality Assurance

JMP:JDW:cmk

Attachment

cc: Karl V. Seyfrit
USNRC, Region IV (3 copies)

bcc: NRC Distribution w/Attachment 1
~~L. C. Lessor~~ w/entire enclosure
J. V. Sayer w/entire enclosure
K. C. Walden w/entire enclosure
E. C. Binder (NE State) w/all Plans
H. J. Bocella (Iowa) w/all Plans
W. M. Clark (Missouri) w/all Plans
L. H. Mannell (Kansas) w/all Plans
R. S. Kamber w/CNS Plan & Implementing Procedures
R. E. Buntain " " " " " "
C. D. Sayre " " " " " "
L. J. Cooper " " " " " "
W. H. Irby " " " " " "
P. W. Lyon (INPO) w/CNS Plan

17537 0995

Nebraska Public Power District
Cooper Nuclear Station
Early Warning Plan

Cooper Nuclear Station (CNS) is located on the west bank of the Missouri River in the southeast corner of Nebraska. The 10 mile Emergency Planning Zone (EPZ) is predominantly rural with the exception of the towns of Peru, NE (1380); Brownville, NE (154); Nemaha, NE (184); Shubert, NE (225); Rock Port, MO (1575); Watson, MO (164); Phelps City, MO (76); Langdon, MO (10); and Nishnabotna, MO (7). According to the population distribution figures in NUREG/CR-1498 "Population Dose Commitments Due to Radioactive Releases From Nuclear Power Plant Sites In 1977" dated October 1980, the CNS Plant site is among the four least populated sites in the country-- 6425 people reside in the 10 mile EPZ. The obvious safety advantages of the remote CNS site and the disadvantages of high intensity sirens in a rural farming/livestock environment necessitate that the District pursue the following plan for the Early Warning System per Appendix 3 of NUREG-0654.

The Basic Early Warning System consists of two parts. Part One involves large, polemounted sirens, and Part Two involves electronic, mobile sirens. Fixed sirens will be radio controlled by a coded radio signal and mobile sirens will use local controls.

PART ONE

Large (125dB) sirens will be located in population centers of greater than 25 people to augment the existing warning systems used primarily for tornado warning. Siren locations were plotted on maps and all homes within the siren circle were included in the population coverage. Coverage with these sirens is approximately 63% of the total population in the 10 mile EPZ (see attached data sheet). A total of nine (9) sirens will be used; four (4) within the 5 mile radius and five (5) within the 5-10 mile zone.

PART TWO

Electronic (115dB) sirens will be mounted on a portable skid and when in use will be mounted on the back of a three-quarter ton pickup. These sirens have a battery pack, generator and charger for their power source. These units will be located strategically throughout the 10 mile EPZ and will be under the control of local fire departments. These sirens will be driven through the rural areas and the siren tone sounded or a verbal message given, or both may be used. The sirens will be initially directed based upon the potential for exposure in the plume pathway. A total of 12 mobile sirens will be used.

Methods have been in existence for years in this stable rural community for early warning against tornados and for volunteer fire department callup. Mechanisms such as telephones and CB radios are used. Close family ties between neighbors have ensured that no one is left unaware of significant events. The combination of Parts One and Two above coupled with the existing systems will ensure adequate early warning.

0996
17537

POPULATION COVERAGE FOR FIXED SIRENS

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, NE area = 201
Nemaha, NE area = 212
Phelps City, MO area = 90
Langdon, MO 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, NE area = 1425
Shubert, NE area = 244
Rockport, MO area = 1625
Watson, MO area = 192
Nishnabotna, MO area = 25

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

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

0997
17587

NPPD Early Warning System

March 5, 1982

1. Pole Mounted Sirens

Federal Signal Corp. Thunderbolt 125 dB siren. Nine sirens located in or near the following towns:

Nebraska:	Peru	- 1 siren in town
	Brownville	- 1 siren in town
	Nemaha	- 1 siren in town
	Shubert	- 1 siren in town
Missouri:	Watson	- 1 siren near town
	Rockport	- 1 siren in town
	Phelps City	- 1 siren in town
	Langdon	- 1 siren near town
	Nishnabotna	- 1 siren near town

These sirens are activated by radio from the Sheriff's Office in Rockport, Missouri, and Auburn, Nebraska. Local fire departments also have control of their siren for fire calls.

2. Mobile Sirens

Whelen Engineering Company. One unit = two (2) 100 watt speakers mounted on a metal cross bar which is mounted on the car or truck roof. A 200 watt siren amplifier drives the speakers.

There are 32 of these units located as follows:

Nebraska:	Peru	- 5 units
	Brownville	- 5 units
	Nemaha	- 5 units
	Shubert	- 2 units
Missouri:	Rockport	- 10 units
	Watson	- 5 units

These units are assigned to the volunteer fire departments in these towns. In case of an incident at Cooper Station, the Sheriff's Dispatch Point will notify the fire departments that they are to run their routes and warn the people.

All sirens are in operation.

Audits of maintenance of all sirens is performed by NPPD.

3. Summary

Fixed sirens cover 63%.

Mobile sirens preferable for balance.

- Our test of fixed, 68%; Indian Point siren test; OPPD siren tests.

- All can be dispatched.



EXHIBIT (7)

WHEEL
DEE
SAFETY
CONNECTICUT
RETURN REQUESTED

TO: Nebraska Public Power Dis.

Cooper Nuclear Station

ATW Warehouse Siren Project

Brownsville, Mo. 64001

DO NOT HANDLE WITH CARE!
CONTENTS ARE RADIOACTIVE

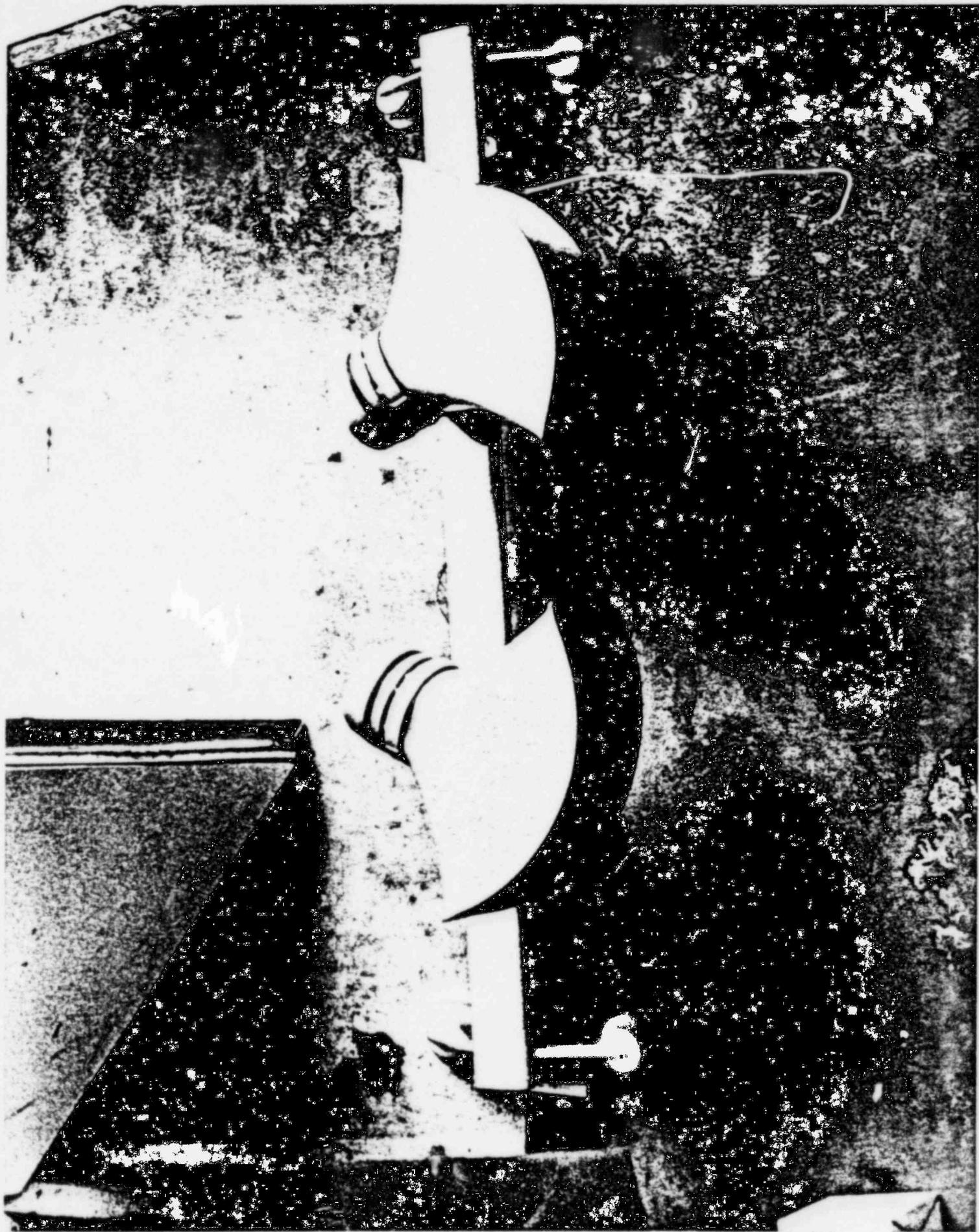


EXHIBIT (9)

Statement by Individual VF-1 at Community (A) on March 16-17, 1982.

I, Individual VF-1, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made. I have been the Community (A) volunteer Fire Chief for about the past [REDACTED]. Our department presently has [REDACTED] volunteers.

About one year ago, a Nebraska Public Power District representative turned over to me [REDACTED] mobile siren units that were to be installed on the vehicles of our towns volunteer firemen. I do not recall the mans name but he gave me his card which I cannot find at this time. The purpose of the sirens was to utilize them along routes within a ten mile radius of the Cooper Nuclear Station in case of an emergency at the plant. He asked us to have them installed and since that time he has been back to see us about four times. We currently have eight of the ten units installed, one of which is still in the box and has never been installed and the other was recently taken off of a volunteers vehicle who quit the department. Other than being given the sirens and one route map, the only other thing that we were told is that we had to make the notifications around the plant within a five mile radius in fifteen minutes and make the notifications around the plant within a five to ten mile radius in, I believe, forty five minutes. We were never given anything in writing to this effect and to my knowledge there is no letter of agreement with the utility regarding our assistance in this letter. I believe it would be helpful to us if there was such an agreement. We had installed the units that we do have installed ourselves and in one case it cost the individual \$55.00 out of his own pocket to have the unit wired and a special bracket made because it would not fit his rooftop. The guy who gave us the sirens told us

that he would like us to meet the fifteen minute requirement and to call him if we had any questions. On one occasion I did mention to him that we could use more route maps but we have not yet received them. About four or so months ago the NPPD representative asked me if we had all our sirens installed and I told him we had 9 ready to go.

I would like to have one map for each vehicle running the routes the utility requested us to. We could also use more schooling and training in the area of radiological monitoring and decontamination procedures. It has been over a year since a lot of us have had such training and some of the new men have not had any such training at all. NPPD has given us an emergency plan spelling out our responsibilities but they have not given us either the ~~pr~~cedures or training for which to carry out the plan. Further, I do not know of any information that has been distributed to the public regarding what they are to do in case of an emergency at Cooper Station.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any changes and/or corrections and this statement is the truth to the best of my recollection and belief.

Signed: Individual VF-1

Date/Time: March 17, 1982

Witness: Richard A. Matakas

Witness: Charles Hackney

STATEMENT BY INDIVIDUAL VF-2 AT AUBURN, NEB. ON MARCH 17, 1982.

I, Individual VF-2, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the Nuclear Regulatory Commission. I make this statement with no promises or threats having been made.

I have been the Community (B) voluntary Fire Chief for about [REDACTED] and my department currently has [REDACTED] volunteers.

Prior to my taking over as the Community (B) volunteer fire chief we had received [REDACTED] mobile siren units from a Individual D-6 representing Nebraska Public Power District. Shortly after taking over the department I called Individual D-6 who asked me to hook up the mobile units to the volunteers personal vehicles or the departments fire equipment. He said that NPPD would be responsible for the maintenance of the mobile units and they would be installing a base unit for us. We put one of the units on the departments International truck but we had trouble hooking it up because of the mounting brackets. I installed one of the units on my personal vehicle the last week of January. Two units were installed on two of my volunteers vehicles during the first week of February and the last unit was not installed on a vehicle until March 12. The units had remained in boxes until they were installed. Last night I attended a meeting between the local volunt^{EEK} fire chiefs and representatives of NPPD and this was the first time that I had met Individual D-6 in person. Prior to this I had only talked to him over the telephone and I have never received any written information from him or anyone else from NPPD regarding what we were supposed to do in case of an emergency at Cooper Station. Individual D-6 had previously told me over the phone that he wanted us

to run the routes and I assigned men to each route. We did have a map of the routes. I had no knowledge that they wanted us to complete the routes within fifteen minutes of notification until last night when one of the NPPD representatives told me of the fifteen minute time limitation. At the meeting we were told that anyone that was going to be out of town should not have a siren and, as it stands, everyone who has a siren works out of town. My initial understanding was that, within reason, it did not make any difference who I assigned them to. Most of us are within fifteen minutes travel time of the station while working. As it stands now, it would take fifteen minutes for most of us to get to the station during the work day and another fifteen minutes to make the notification along the assigned routes. The earliest that we would have performed the notifications NPPD was asking us to do was Mar 12, 1982, the day the last unit was installed. To date, my department has not had any emergency training sessions given by NPPD; however, one of the volunteer fire chiefs did bring that issue up to one of the NPPD representatives last night. The only information exchange that I have had with NPPD up until last night, was conversation with their representatives over the telephone, namely, Individual D-6. Just about everytime I talked to Individual D-6 he asked me if the units were in and I told him they were not.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any corrections and/or changes and this statement is the truth to the best of my knowledge and belief.

SIGNED: Individual VF-2

DATE/TIME: 3-17-82 - 3:05

WITNESS: Richard A. Matakas, 3/17/82

WITNESS: Charles Hackney

STATEMENT BY INDIVIDUAL V-3 IN AUBURN, NEB. ON MARCH 17, 1982.

I, Individual V-3, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I have been the Community (C) volunteer fire chief for about the past [REDACTED]
[REDACTED] I have about [REDACTED] volunteers on my department.

Sometime last year Individual D-6 of Nebraska Public Power District gave me [REDACTED] mobile siren units to be placed on either our fire equipment or our volunteers personal vehicles. I accepted the units which were to be used by us to warn residents along four routes in the community in case there was an emergency situation at the Cooper Nuclear Station. Essentially were told that we were to drive the routes and warn the people in case of such an emergency. He gave us a map with the routes on it and I made a stack of copies for our use. We were never given any emergency plans on what to do in case of an emergency and we have not been told what we should tell the public if an emergency should occur. Individual D-6 did tell us that we would get instructions from the sheriff in Auburn, Neb. if an emergency situation should happen at the Cooper plant. Individual D-6 asked me back in January if all of our mobile units were operational and I told him that all but one of the units had been installed and were ready to go. I had put three of the units on our fire equipment last year and in January I put the last two units together where they could^{be} utilized on any type of personal vehicle if the need should arise. One of these units can be plugged into a cigarette lighter and the second can be hooked up to a standard 12 volt car battery. I have talked

to Individual D-6 on seven or eight occasions in the past year and sometime last month I told him that all of our units were operational and ready to go.

I have read over this one page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any corrections/changes and this statement is the truth to the best of my recollection and belief.

SIGNED: Individual V-3

DATE/TIME: 3-17-82 7:21 P.M.

WITNESS: Richard A. Matakas

WITNESS: Charles Hackney

STATEMENT BY INDIVIDUAL VF-4 AT COMMUNITY (D), ON MARCH 17, 1982

I, Individual VF-4, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I have been the Community (D) volunteer fire chief since [REDACTED], and before that time I was the assistant voluntary fire chief for approximately [REDACTED]. My department has [REDACTED] volunteers.

Sometime around October 1981, Individual D-6, representing Nebraska Public Power District, came to our department and gave us [REDACTED] mobile sirens that were packed in boxes. He said that he was giving them to us to use in case of a Cooper Nuclear Station emergency. He said that at a later date that he would be giving us a map with some routes on it that we were suppose to travel and notify the people along the routes of an emergency at the Cooper Station. We did not get the map until about one and one half months ago. At this time he (Individual D-6) asked me if the sirens were ready to go and I told him only three were ready and I was trying to get someone to take the other two. I do not recall the exact date but I know it was not until after our volunteer fire department meeting on the last Monday in January, which was January 25. The map had five routes on it. We installed three of the mobile siren units shortly after receiving them. Two of the units remained in the boxes until the latter part of last week when someone from NPPD came and got the units, put them together where they could be operated off of a car battery and returned them to us. As of February 1, 1982 we only had three of the units ready for use as the remaining two were still in the boxes until the last part of last week. Last

night all the voluntary fire chiefs met with representatives of NPPD and they informed us of what they would like us to do. Up until the meeting, it was my understanding that in case of an emergency at Cooper Station, we were to travel along the routes they gave us but I did not really know if we were suppose to alert the people, tell them to evacuate or exactly what instructions to give them over the loud speakers. I was never informed of any type of time limit that we had to make the notifications and right now if we were to have to make the notifications, I would estimate that it would take forty to forty five minutes to do so after initial notification from the time Cooper Station notified my department. My department has never received any type of training regarding what actions we should take upon being notified of a Cooper Station emergency and to my knowledge there has never been any type of written agreement between my department and NPPD regarding either ours or their responsibilities in case of such an emergency. Last night at the meeting we had with NPPD, I told both the Cooper Station manager and Individual D-6 that this means of alerting the public was not a practical way to go because volunteer people are hard to get. I told them that running the routes and alerting the people as they want us to do would be done on a voluntary basis only on my department and it would depend on such things as weather conditions and road conditions. As far as I am concerned, my department will do what it can do but we will not take the responsibility for notification of the public. Also, as a result of the meeting last night, it is anticipated that NPPD will mount the mobile siren equipment on our fire equipment. In the past we have had problems mounting the equipment on certain types of vehicles because of the mounting brackets that were provided.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any changes and/or corrections and this statement is the truth to the best of my recollection and belief.

SIGNED: Individual VF-4

DATE/TIME: 3/17/82, 4:40 P.M.

WITNESS: Richard A. Matakas

WITNESS: Charles Hackney

STATEMENT BY INDIVIDUAL VF-5 AT ROCK PORT, MO. ON MARCH 17-8, '82.

I, Individual VF-5, hereby make the following voluntary statement to Mr. Richard Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I am currently a volunteer with the Community (E) Fire Department.

Sometime last year, towards the middle of the year, a Individual D-6 of the Nebraska Public Power District, gave me [REDACTED] mobile siren units for the Community (E) Fire Department. About the only thing he told us to do with the sirens was to get them mounted on vehicles and we were to warn the people in our district about any emergency situation that we were told about, which took place at the Cooper Nuclear Station. At that time we were not given any route maps and we took it upon ourselves to divide the area up around Community (E) and assign fire volunteers to drive the routes and warn the people. Up until about three weeks ago, we had never received any instructions at all from NPPD regarding exactly what we should do in case of an emergency situation at the Cooper Station. It was approximately February 15 or 16, 1982, that Individual D-6 came by and provided me with the exact routes that NPPD wanted us to follow in case of such an emergency. There was a total of five routes and after examining them, some of them did not make too much sense because there was no one living along some portions of the routes. I feel that NPPD should have consulted with us prior to making the routes because we could have provided them with valuable information regarding habitability and new roads in the area that would shorten the routes. As it stands now, some of the units are mounted on vehicles of which I could not guarantee

their availability in case of an emergency at the site because the individuals may be away on business. It would make more sense if the siren units were mounted on equipment that is kept permanently at the station for emergency use by any one of the Community (E) fire volunteers. In my opinion, NPPD is asking a lot from our firemen in the way of free time and out of the pocket expenses such as gas during drills and time off from work during drills. The only training that our department has ever received from NPPD, that I know of, is when Individual D-6 came out and showed us how to operate the stationary siren unit after it was placed in our community. To my knowledge there is no written agreement of any kind regarding our responsibilities or NPPD's responsibilities in case of an emergency at the Cooper Nuclear Station.

I have read over this two page statement and have discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make corrections and/or changes and this statement is the truth to the best of my recollection and belief.

SIGNED: Individual VF-5

DATE/TIME: 3-18-82

WITNESS: Richard A. Matakas
3-18-82

WITNESS: Charles Hackney

STATEMENT BY INDIVIDUAL VF-6 AT COMMUNITY (F) ON MARCH 16, 1982.

I, Individual VF-6, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as employees of the U. S. Nuclear Regulatory Commission. I make this statement with no threats or promises having been made. I am currently the voluntary fire chief for Community (F).

It was at least six months ago that a representative of Nebraska Public Power District (NPPD) came to me and gave me [REDACTED] mobile sirens to be used to warn the community in case there was an emergency at the Cooper Nuclear Station. I believe the name of the representative was Individual D-6. Individual D-6 asked me if we would operate [REDACTED] emergency vehicles that would be mounted with the sirens, and he further told me that NPPD would provide my department with [REDACTED] the vehicles. He said that he would be sending someone out to install the siren units but it was not until sometime after the Cooper Station emergency exercise which took place this month, that NPPD actually sent someone to put together the units. The units are still not mounted on vehicles but it is my understanding that are ready to be mounted; however, to date, I do not know if the mounting brackets will fit my personal vehicle or exactly what type of vehicle they will fit. About one or two months ago, Individual D-6 provided me with one map that had [REDACTED] routes on it that we were suppose to run in case of an emergency at the plant. We were suppose to warn the people along these routes that there was an emergency situation at the Cooper plant. Individual D-6 verbally told me to basically tell the people that there was an emergency situation at the plant, tell them what we were doing but he never gave me any instructions in writing. We do not have an emergency plan and as far as I know, we do not have any written procedures of actions to take if the emergency warning

is sounded. Right now, I do not know if I could make a fifteen minute notification along the [REDACTED] routes that Individual D-6 provided to me. It would depend on the mounting brackets for the sirens. If they fit vehicles that we had available, we could make the notifications. Even if [REDACTED] units were mounted at this time on [REDACTED] vehicles, it would be doubtful if we could make the required notification because about twenty five percent of the time [REDACTED] are away from the area. As it stands now, we plan ^{ON} using [REDACTED] our vehicles to make the notifications. If NPPD would provide us with a vehicle that we could maintain permanently at the fire station, as they originally stated they would, and with the [REDACTED] units that we do have, we could probably meet the time requirement. To my knowledge there is no letter ^{of} agreement that we fulfill this requirement.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any changes and/or corrections and this statement is the truth to the best of my recollection and belief.

DECLINED TO SIGN

WITNESS: Richard A. Matakas, 3/16/82

WITNESS: Charles Hackney

Sworn Statement by Individual D-1 at Columbus, NE on March 19, 1982

I, Individual D-1, hereby make the following voluntary statement to Mr. R. A. Matakas, NRC Investigator, and Mr. Charles Hackney, NRC Inspector, both of whom have identified themselves to me. I make this statement with no threats having been made or promises having been extended to me.

I am currently the Assistant General Manager of the Nebraska Public Power District located at 1414 15th Street, Columbus, NE.

During 1980 and 1981, I attended several meetings regarding the formulation of a plan for an early warning system for the Cooper Nuclear Station. There were a number of meetings regarding this plan that I did not attend. NPPD personnel who provided information during these meetings included Individual D-6, Individual D-3, Individual D-2, Individual D-4, Individual D-5, Mr. Kamber and myself. I'm sure there were other division meetings held in the formulation of an early warning system and I would not have attended these meetings. During the meetings that I attended plans were discussed. At some point in these meetings, an early warning system consisting of nine fixed

Continuation of Sworn Statement by Individual D-1

sirens, thirty-two mobile siren units operated by local volunteer fire departments and six police cruisers was presented to me. The original discussions on the plan concerned mainly the aspects of hardware that would be needed to implement the plan. During these meetings we did not discuss details of what procedures or training would be involved relating to the volunteer firemen carrying out the plan. Some very general discussion was held identifying that the volunteers would have to do something. I presented the plan to the NPPD Board members and they accepted the plan. Individual D-6 was assigned the job of leading the project. During the meetings preceding the acceptance of the plan and during the meetings subsequent to the acceptance of the plan, I believe that some minutes were kept during some of the meetings and some progress reports were presented during some of the meetings. NPPD does have a report tracking system; however, I do not know if either such minutes or progress reports were entered into the tracking system. Mr. Matakas has asked me what management controls existed over the project. For the most part the management controls over the project were handled orally and informally as to the progress and implementation of the plan. The project leader, Individual D-6, to my knowledge was not required to submit a procedural plan regarding implementation of the system.

As far as the February 8, 1982 letter from Individual D-2 to the NRC goes, I had no knowledge of this letter until I received my copy in distribution. As far as I was concerned, conversations that I had with my subordinates led me to believe that the system had been installed and was operational. I had not had any conversation with anyone else that would have indicated to me otherwise.

Continuation of Sworn Statement by Individual D-1

I have read over this two page statement and have discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make any changes/corrections and this statement is the truth to the best of my knowledge and belief.

SIGNED: /s/ Individual D-1

DATE/TIME: March 19, 1982 11:15 AM CST

Subscribed and sworn to before me at 11:15 AM,
this 19th day of March, 1982, at Columbus, NE

 /s/ Richard A. Matakas

RICHARD A. MATAKAS, NRC INVESTIGATOR

AUTH: SEC. 161c AEA 1954 AS AMENDED

WITNESS: /s/ Charles A. Hackney

CHARLES HACKNEY

Sworn Statement by Individual D-2 at Columbus, NE on March 18, 1982

I, Individual D-2, hereby make the following voluntary statement to Mr. R. A. Matakas, NRC Region I Investigator, and Mr. Charles Hackney, NRC Region IV Inspector. I make this statement with no threats having been made or promises having been extended to me.

I am currently the NPPD Division Manager of Licensing and Quality Assurance.

During the last part of 1980 and the first part of 1981, I personally attended several meetings the subject of which was the early warning system at the Cooper Nuclear Station. People who attended these meetings included Individual D-6 (Engineering), Individual D-3 (Engineering), Individual D-4 (Licensing), Individual D-5 (Licensing), Mr. Kamber (Senior Division Manager), Individual D-1 (Assistant General Manager) and myself. I did not attend every meeting. The requirement covering the Early Warning System is covered in 10 CFR 50, Appendix E. As the official corporation representative for all matters involving the NRC, it was my job to answer all correspondence with the NRC. There was no minutes kept of the meetings and I did not take any notes. During the meetings we basically decided that we would provide an Early Warning System at the Cooper Nuclear Station that consisted of nine fixed sirens and

thirty-two mobile sirens that would be operated by community based volunteer fire departments around the Cooper Station. I believe it was Individual D-3 who assigned the job of volunteer fire department liaison to Individual D-6. Sometime in the January 1982 time frame, I learned from Individual D-5 that either he or Individual D-4 had informed Mr. Charles Hackney of the NRC, Region IV, that the Cooper Station Early Warning System was installed and operational. He told me that we had to respond to Region IV, in writing, to that effect. I respond to all NRC inquiries so it was up to me to make the reply. Individual D-5 volunteered to draft the letter and he subsequently brought it to me for signature. The letter was dated February 8, 1982 and the QA tracking number is LQA8200081. The letter states that the Cooper Nuclear Station has been installed and is operational. My understanding of installed and operational was that the nine fixed units were installed and operational, the thirty-two mobile units were either installed on vehicles or put together for immediate installation and use and were operational, and that the appropriate local authorities had been instructed as to their use in case of Cooper Station Emergency. By instructed, I mean the routes had been defined, they knew how to make the appropriate siren and verbal notifications, they knew the speed restrictions on use of the equipment, and they knew the time limitations on making the notifications and the purpose behind, or type, of notification such as telling the people to turn on the appropriate radio station. Based on Individual D-6's background and the fact that he was aware of the above requirements, I assumed that he was providing this information to, at least, the local fire chiefs and that he had verified that the mobile and fixed units were in fact installed and operational. In the February 8 letter mentioned

above, I did not notice that the reference was to an earlier description of the EWS. This system was subsequently modified, the NRC was notified of the modification by letter dated June 30, 1981 (QA #LQA8100215) and actually the June 30 letter should have been referenced. This was just an oversight on my part. I asked him, Individual D-5, if in fact the language in the letter was correct and he told me that he had checked with someone in Engineering (don't recall who) and they had assured him that was in fact correct. After he told me this I signed the letter and sent it out. To my knowledge, only Individual D-5 and myself saw the letter. There were no discussions or meetings that I know of, except as mentioned above, regarding the letter. A copy of the distribution of the letter is attached hereto. I would like to say that I realize now that the mobile units were not all operational at the time I drafted the letter but when I signed the letter stating they were, I was convinced in my own mind that they were based on the information that I had received/assumed as stated above. It was not until the time period surrounding the Cooper Station emergency drill on March 10, 1982 that I became aware that some of the mobile units were not operational.

I have read over this three page statement and discussed its contents with both Mr. Matakas and Mr. Hackney as Mr. Matakas typed it for me. I have

Continuation of Sworn Statement by Individual D-2 4

acknowledged its contents with my initials, corrected errors and it is the truth to the best of my knowledge and belief.

SIGNED: /s/ Individual D-2

DATE/TIME: 3/18/82 1706 Hours

SUBSCRIBED AND SWORN TO BEFORE ME AT 5:06 PM
THIS 18th DAY OF MARCH, 1982, AT COLUMBUS, NE

 /s/ Richard A. Matakas

RICHARD A. MATAKAS, NRC INVESTIGATOR

AUTH: SEC. 161c AEA 1954 AS AMENDED

WITNESS: /s/ Charles Hackney

CHARLES HACKNEY, NRC INSPECTOR

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—		D. L. DuBois*	
		(NRC Resident Inspector)	

*Letters sent to NRC only.

Sworn Statement by Individual D-3 at Columbus, NE on March 19, 1982

I, Individual D-3, hereby make the following voluntary statement to Mr. R. A. Matakas and Mr. Charles Hackney who have identified themselves to me as Investigator/Inspector with the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I am currently the Engineering Manager, Power Projects Group, for NPPD. My supervisor is Mr. Larry Kunc1.

In 1980-1981 I attended NPPD meetings relating to the formulation of early warning system plan for Cooper Nuclear Station. There was no formal chairman for any of the meetings. Those people who attended the meetings were Individual D-6, Individual D-2, Individual D-4, Individual D-1, Individual D-5, Mr. Kamber and myself. Sometime between January and June 1981 it was decided on that we would present a plan to the Board of Directors which consisted of nine fixed sirens, thirty-two mobile sirens mounted on vehicles belonging to local volunteer fire departments and six police cruisers. After the plan was accepted, there was no discussion in any of the meetings that I attended regarding the actual implementation of the mobile units relating to training, procedural instructions to the volunteer fire departments, etc.; however, there was some discussion that these items had to be considered. I was assigned the responsibility of Project Manager but I was not assigned or delegated the authority over the other divisions that were participating in the project. Because of this, one of the problems that I had after assigning

Individual D-6 the job of lead engineer over the project, was that Individual D-6 was getting instructions from the different divisions (such as Licensing, Operations and Public Relations) which I was not aware of. The actual implementation of the project was more or less left up to Individual D-6. On occasion Individual D-6 asked for help but I was not able to give it to him. I had six other engineers working for me and they were all assigned other projects. I did not ask upper management for assistance because in the past when I have requested such assistance, I had not received any. I have provided Mr. Matakas documentation to this effect. Individual D-6 did not provide me with any status reports regarding the project; however, he did tell me verbally what he was doing. In his verbal reports he led me to believe that he was satisfactorily accomplishing the task of getting the mobile siren units installed and operational. From July through September 1981 I was in the hospital and did not receive any information from Individual D-6. In retrospect, I feel that this project was beyond Individual D-6's ability but I did not have anyone else to assign and Individual D-6 did have experience in the area of civil defense.

Regarding the February 8, 1982 letter from Individual D-2 to the NRC wherein he states the Cooper Early Warning System has been installed and is operational, I was aware that this letter was being sent. One or two days prior to February 8 I was informed that Individual D-2 had to respond to the NRC and I had conversation with Individual D-6 about it. He told me that he had made some checks and that the sirens "would be installed," indicating that they would be installed very shortly. As far as the information he gave to

Individual D-2's Licensing Division, I was not present and do not know what he actually told them. I received a copy of the February 8 letter on a later date but did not talk to Individual D-6 about it.

The briefing that Individual D-4 gave to the NRC on March 9, 1982 was based on a draft that was prepared by Individual D-6. The draft was essentially identical to the handout Individual D-4 gave to the NRC which in effect stated that the system had been installed and was operational. I attended a meeting with both Individual D-4 and Individual D-6 prior to the briefing and Individual D-6 did state that the system was installed and was operational.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make corrections/changes and this statement is the truth to the best of my knowledge and belief.

SIGNED: Individual D-3

DATE/TIME: 3/19/82 1314 hrs.

SUBSCRIBED AND SWORN TO BEFORE ME
AT 1:14 PM, THIS 19th DAY OF MARCH, 1982
AT COLUMBUS, NE

/s/ Richard A. Matakas
RICHARD A. MATAKAS, NRC Investigator

/s/ Charles Hackney
CHARLES HACKNEY, NRC Inspector

Sworn Statement of Individual D-4 at Columbus, NE on March 30, 1982

I, Individual D-4, hereby make the following voluntary statement to Mr. R. A. Matakas, NRC Investigator, and Mr. Charles Hackney, NRC Inspector. I make this statement with no threats or promises having been made. I am currently the Licensing Manager for NPPD and my supervisor is Individual D-2. I have been employed at NPPD for approximately four years.

During the latter part of 1980 and first half of 1981 I attended NPPD management meetings regarding the installation of an early warning system at the Cooper Nuclear Station. Sometime between January and June 1981 we decided on the current system which consists of nine fixed sirens, thirty-two mobile sirens (which would be operated by volunteer fire departments in the communities surrounding Cooper Station) and six police cruisers operated by local Sheriff's departments. To my knowledge no official minutes were kept of these meetings. The Early Warning System was a NRC/NPPD action item and I physically maintain the action item tracking system. I have attached to this statement a copy of the only documentation in the tracking system that we have regarding the Cooper Nuclear Station early warning system. At this time I felt that the commitment was complete when the nine fixed sirens were in place and the thirty-two mobile units were distributed. In June ¹⁹⁸¹~~1980~~ I received a memo to the effect that the nine fixed sirens had been installed and the thirty two mobiles units had been received and would be distributed to the local volunteer fire departments by July 10, 1981. This memo was from Individual D-3 and is also attached to this statement. Based on this information I closed out the

Cooper Nuclear Station early warning system as an action item and drafted the June 30, 1980 letter (LQA8100215). Attached to this ~~statement~~ ^{LETTER WAS} is the NPPD Cooper Nuclear Station NUREG 0737 implementation reports required as of July 1, 1981. I was not aware of any written procedures (as of March 9, 1982) that had been generated by NPPD regarding operational procedures of the thirty-two mobile units in case of an emergency at the Cooper Nuclear Station. At the time of the June 30, 1981 letter I opined that by the end of July 1981, all of the mobile siren units would be either installed on volunteer firemen vehicles or put together and ready to be installed in case of an emergency at the Cooper Nuclear Station. I formed this opinion based on conversations with Individual D-3 and Individual D-6. To my knowledge no one from either QA or Licensing ever physically checked on the progress of Individual D-6's work as the Lead Engineer over the project. As far as the letter to the NRC (dated February 8, 1982) stating that the Cooper Nuclear Station early warning was installed and operational, I had no input as to the content of the letter and did not see it until I got my copy of the letter. When I read this letter I felt that the system was in fact installed and would meet ~~the~~ the commitment set forth in 10 CFR 50, Appendix E. On March 9, 1982 I gave a briefing to the NRC relating to the Cooper Nuclear Station early warning system. In the briefing I stated that the CNS EWS had been installed, was operational and the volunteer fire departments operating the mobile system knew how to react in case of a site emergency, given the proper instruction. The handout that I gave to the NRC (dated March 5, 1982) was basically a smooth copy that I made from a draft that was provided to me by Individual D-³ and which had been drafted by Individual D-6. Also, on the Friday before the briefing I received

information verbally from Individual D-3 that the mobile siren system had been completed. The conversations I had with Individual D-3 left me with the opinion that the information he was giving to me had been given to him by Individual D-6. I did not realize until two days after the briefing that the information I had provided to the NRC regarding the mobile siren system was not true. At this time I learned from the NRC that several of the mobile siren units were either still in the boxes or questionable as to their use. At the time (March 9, 1982), I felt that the information that I was providing to the NRC was true and accurate.

I have read over this two page statement and discussed its contents with both Mr. Matakas and Mr. Hackney. I have had the opportunity to make corrections/changes and this statement is the truth to the best of my recollection and belief.

SIGNED: /s/ Individual D-4

DATE/TIME: March 30, 1982

SUBSCRIBED AND SWORN TO BEFORE ME

THIS 30th DAY OF MARCH '82

AT COLUMBUS, NE

/s/ R. A. MATAKAS
INVESTIGATION SECTION CHIEF, USNRC

ACTION-ID 110 n 21P21

TITLE: EMERGENCY PREPAREDNESS -
 SIRENS
 DATE: 810701
 NUREG 0654 APPENDIX 3
 REPORT AVAILABILITY: BOYLE RD
 ACTION: SIRENS INSTALLED
 LOG DATE: 810701

EXECUTIVE SUMMARY

01: *** STATUS ***
 02:
 03: APPENDIX 3 TO NUREG 0654 PROVIDES DETAILS. WORK ORDERED FOR \$562.2K
 04: ON 810428 BUT ONLY 9 OF THE 23 FIXED SIRENS WILL BE INITIALLY
 05: INSTALLED. 32 MOBILE SIRENS WILL BE USED. THE 14 ADDITIONAL FIXED
 06: SIRENS IF REQUIRED BY FEMA WILL COST \$318K OF \$562K. PILANT TO
 07: BENTON LETTER 810102 GAVE DEFINITION OF EWS. LETTER PILANT TO
 08: EISENHUT 810630 GAVE UPDATED STATUS OF EWS PER DAVE ROHRER'S
 09: REQUEST. NRC IS BACKING COMPLETION DATE OFF TO 820201.

Sworn Statement by Individual D-5 at Columbus, NE on March 30, 1982

I, Individual D-5, hereby make the following voluntary statement to Mr. R. A. Matakas, NRC Investigator, and Mr. Charles Hackney, NRC Inspector. I make this statement with no threats or promises having been made. I am currently employed as a Licensing Engineer with NPPD and my supervisor is Individual D-4. I have been employed by NPPD for about eighteen months.

I did not attend any of the NPPD meetings regarding either the formation or implementation of the Cooper Nuclear Station (CNS) Early Warning System (EWS). Basically, I became aware of the CNS EWS through reading correspondence between the NRC and NPPD regarding the system. .And in August of 1981, I went to the Nemaha County Sheriff's office to observe a test of the fixed siren system. Around the July-August 1981 time frame I recall talking to Individual D-6 about the CNS EWS but I do not specifically recall the exact conversations.

I believe it was sometime around February 1, 1982, that I was involved in a telephone conversation between myself, Individual D-4 and Mr. Charles Hackney of the NRC. I believe Individual D-4 and I took the call over the speaker phone in Individual D-4's office. Essentially, Mr. Hackney was asking us about the status of the CNS EWS and further inquired as to whether the volunteer

fire department personnel operating the mobile siren units knew their responsibilities. Pretty much what we told Mr. Hackney was that the fixed and mobile siren units were installed and operational and had been turned over to the local governments. We further discussed how one fixed unit did not work during an August 1981 test but we told him that the deficiency had since been corrected and retested. Mr. Hackney asked us to make our response in writing and I believe that same day I had conversation with Individual D-6 about the CNS EWS. I'm fairly sure that I told him the reason I was asking him about the system was because of an inquiry from the NRC. During this conversation Individual D-6 indicated to me that the fixed sirens were in place and the mobile siren units were either mounted on volunteer fire department vehicles or they were put together ready for immediate use on vehicle^s. I specifically recall asking Individual D-6 if the volunteer fire department personnel knew what their responsibilities were in case of a CNS emergency and he told me that they did. The information that Individual D-6 provided to me as stated above, confirmed what we had already told Mr. Hackney to be true. I don't recall the exact circumstance, but Individual D-2 was informed of our commitment to the NRC to respond in writing what we had told Mr. Hackney and it was decided that I would draft the letter. Based on the aforementioned conversation between myself, Individual D-4 and Mr. Hackney and the conversation that I had with Individual D-6 I wrote the February 8, 1982 (LQA8200081) letter to the NRC for Individual D-2's signature, stating in effect that the CNS EWS was installed and was operational. I inadvertently referenced a January 2, 1981 letter from Individual D-2 to Mr. H. Denton describing the system when I had intended to reference a June 30, 1981 letter

from Individual D-2 to Mr. Eisenhut (LQA8100215) which correctly describes the CNS EWS in Item III.A.2. The January 2 letter described an earlier system which we had previously considered. As far as I was concerned, at the time I drafted the February 8 letter the entire CNS EWS was installed, operational and the volunteer firemen operating the mobile sirens knew their responsibilities. Up until the time of the March CNS EWS exercise, as far as I know, the Cooper Nuclear Station was not involved at all with the implementation of the system and I did not know of any quality assurance program that we had regarding the system as of the time of the March CNS EWS exercise.

I have read over this two page statement and discussed its contents with Mr. Matakas and Mr. Hackney. I have had the opportunity to make corrections/changes and this statement is the truth to the best of my knowledge and belief.

SIGNED: /s/ Individual D-5

DATE/TIME: 30 March 1982/1411

SUBSCRIBED AND SWORN TO BEFORE ME

THIS 30th DAY OF MARCH '82

AT COLUMBUS, NE

/s/ R. A. MATAKAS
INVESTIGATION SPECIALIST, USNRC

Sworn Statement by Individual D-6 at Columbus, NE on March 18, 1982

I, Individual D-6, hereby make the following voluntary statement to Mr. R. A. Matakas who has identified himself to me as an Investigator with the Nuclear Regulatory Commission. I make this statement with no threats or promises having been made.

I am currently an engineering technician in the NPPD Nuclear Engineering Department. I have been employed by NPPD for twenty-two years. I am also the Civil Defense Director for Platte County, NE.

During the last part of 1980/first part of 1981 I attended meetings regarding development of an early warning system for the Cooper Nuclear Station. Primarily these meetings were attended by Individual D-3, Individual D-4, Individual D-5, Mr. Kamber, Individual D-2, Individual D-1 and myself. I did not attend all of the meetings. The early warning system had to be developed in compliance with 10 CFR 50, Appendix E. However, I had not read the complete appendix until just now when Mr. Matakas showed it to me. My boss, Individual D-3, assigned me to be, in effect, the Project Engineer for the Cooper Nuclear Station Early Warning System. At first we were going to use a complete stationary alert system, then we switched to a partial stationary and partial mobile (skid mounted) alert system and finally sometime between January and June 1981 we decided on the present system which consists of nine stationary units and thirty-two vehicle mounted mobile units. I spent a great deal of

time out in the field looking at the feasibility of the first two plans prior to the decision being made to execute the latter of the three plans mentioned above. At no time was I ever told how to implement the Early Warning System as to training the individuals on the operation of the equipment, telling them what to say or documentation of letters of agreement of responsibility or documentation of procedures that the volunteers should take in case of an emergency. This was all left up to me. I know all of these things had to be done in order to complete the early warning system but I just did not have time to do it all. The main emphasis was on the installation of the hardware. My main contacts with the surrounding communities around the site were with the volunteer fire chiefs within those communities. In each case I personally gave the mobile units to a member of the voluntary fire department. The communities were those of Watson, Missouri, Rock Port, Missouri, Peru, Nebraska, Brownville, Nebraska, Nemaha, Nebraska and Shubert, Nebraska. About fifty percent of my contacts with the fire chiefs was by telephone. On occasion I would ask the chiefs if they had all of their units installed. I cannot say that at any time was I absolutely sure that any of the communities had their mobile units all installed. When I was out in the field I had observed quite a few of the mobile units installed and during various conversations with the fire personnel in these communities, I had been informed that they were trying to get them all installed. At no time had anyone from any of the communities told me that they either had all the units installed or that they had them all ready to be installed. I don't recall the exact circumstances, but shortly before February 8, 1982, Individual D-5 came to me and asked me to give him a report on the status of the siren system. It was late in the day when he

asked me and I immediately attempted to contact the above mentioned fire chiefs. I believe ^{INDIVIDUAL VF-5} from ^{COMMUNITY (E)} told me that he thought all his departments were installed and operational but he was not sure. I believe ^{INDIVIDUAL VF-3} from ^{COMMUNITY (C)} told me that all of his units were either mounted and ready to go or put together and ready for quick mount. I believe that ^{INDIVIDUAL VF-1} from ^{COMMUNITY (A)} told me that he lacked having one or two units ready to go but that he was working on getting those ready. I contacted ^{INDIVIDUAL VF-4} from ^{COMMUNITY (D)} and he told me that he had three units operational, two units were not operational but he was trying to get someone to take the remaining two units. I called ^{INDIVIDUAL VF-2} from ^{COMMUNITY (B)} and I believe that he told me that he only had one unit installed but that he was working on the other units. I could not get ^{A HOLD} of anyone from ^{COMMUNITY (F)} I guess it was just wishful thinking that they had theirs done based on the fact that sometime previous to this I had asked one of the firemen from another department to give ^{COMMUNITY (E)} a hand on installing their units. I believe the person that I asked to do this was ^{INDIVIDUAL VF-5} from ^{COMMUNITY (E)} but I am not sure. Based on this information, I told Individual D-5 that all the mobile and stationary sirens for the Cooper Station Early Warning System were installed and operational. I knew I was not giving Individual D-5 accurate information and I guess I told him what I did was because I was under a lot of pressure and I wanted to meet their deadline. I guess in my own mind I felt that in the next couple of days all of the units would be installed and operational. I really don't know if I turned the information in to Individual D-5 verbally, or in writing. I definitely did not tell either Individual D-2, Mr. Hill, Individual D-1, Individual D-4 or

Mr. Kamber how I came about the conclusion that I told Individual D-5 regarding the Cooper Early Warning System. I do not recall telling Individual D-3 anything either but if I did, it would have just been that either the system was complete or that it would be complete in the next day or two. If I did tell him the latter, I did not discuss with him how I came about my conclusion.

I have read over this three page statement and have discussed its contents with both Mr. Matakas and Mr. Hackney as Mr. Matakas typed it for me. I have acknowledged its contents with my initials, corrected errors and it is the truth to the best of my knowledge and belief.

SIGNED: /s/ Individual D-6

DATE/TIME: 3/18/82 8:07 p.m.

SUBSCRIBED AND SWORN TO BEFORE ME AT 8:07 p.m., THIS 18th DAY OF MARCH, 1982,
COLUMBUS, NE

 /s/ Richard A. Matakas

RICHARD A. MATAKAS, NRC INVESTIGATOR

AUTH: SEC 161c AEA 1954 AS AMENDED

WITNESS: /s/ Charles Hackney

CHARLES HACKNEY, NRC INSPECTOR