

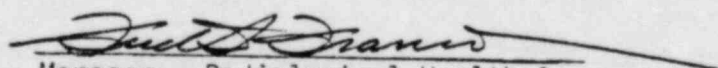
OMAHA PUBLIC POWER DISTRICT
 CONFIRMATION OF TRANSMITTAL
 EMERGENCY PLAN IMPLEMENTING PROCEDURES
 (EPIP)

Name USNRC
o/o H. R. Denton Date October 12, 1982

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EPIP-OSC-10	EPIP-OSC-10-1 thru EPIP-OSC- 10-9, Rev. 1, dated 8-26-82	Initial Assessment of Plant Parameters and Effluent Monitors to Determine Source Term	EPIP-OSC-10, Rev. 0, dated 4-23-82 (1 thru 9)
EPIP-OSC-11	EPIP-OSC-11-1 thru EPIP-OSC- 11-3, Rev. 1, dated 8-31-82	Initial Dose Assessment Based on Plant Instru- mentation	EPIP-OSC-1, Rev. 0, dated 3-11-82 (1 thru 3)
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EPIP-RR-17	EPIP-RR-17-1 thru EPIP-RR- 17-3, Rev. 1, dated 8-31-82	Recovery Organization's Security and Technical Support Administrative Supervisor	EPIP-RR-17, Rev. 0, dated 7-14-81 (1 thru 3)
EPIP-PI-1	EPIP-PI-1 thru EPIP-PI-51, Rev. 2, dated 9-14-82	Public Information (Crisis Communication Plan)	EPIP-PI-1/7, Rev. 1, dated 3-31-81 (1 thru 52)


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OMAHA PUBLIC POWER DISTRICT - FORT CALHOUN STATION

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Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-OSC-10

Initial Assessment of Plant Parameters and
Effluent Monitors to Determine Source Term

I. PURPOSE

To determine the release rates of radionuclides from the plant, following an accidental release of airborne activity, these two methods are used:

- A. Estimate release rates using stack or condenser off gas effluent monitor data.
- B. Estimate release rates using containment area monitor data, when the containment is isolated.

II. PREREQUISITES

- A. Emergency classification has been defined per EPIP-OSC-1.
- B. Emergency plan has been activated per EPIP-OSC-2.
- C. Effluent radiation monitors data is available for estimating release rates from the stack or condenser off gas.
- D. Containment exposure rates data is available from the containment area radiation monitor(s) and the containment has been isolated in order to determine the release rates from the containment.

III. PRECAUTIONS

None

IV. PROCEDURE

1. Source term using effluent monitors data.

(1) Complete the attached Form FC-220, for meteorological data and calculation of release rate, 'Q' in Ci/sec.

NOTE: Information from Form FC-220 will be used for performing initial dose assessment per EPIP-OSC-11.

2. Source term using containment area monitor data (when containment is isolated).

- NOTES:
- 1. Information from Table OSC-10.1 will be used for performing initial dose assessment per EPIP-OSC-11.
 - 2. This procedure is used for obtaining the source term for any type of accident, provided the dose rates in the containment and the release rates from the containment for LOCA conditions are defined.

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R1 8-26-82

IV. PROCEDURE (Continued)

(1) Noble gas release rates.

- a. Select the time after an accident at which release rate is to be calculated and enter in Table OSC-10.1.
- b. Determine the containment area monitor reading from the control room radiation monitor readout and record in Table OSC-10-1.
- c. Determine the containment dose rate for LOCA from Figure OSC-10.1 and record in Table OSC-10.1.
- d. Determine the noble gas release rate from the containment for LOCA from Figure OSC-10.2 and enter this value in Table OSC-10.1.
- e. Estimate the noble gas release rate from the containment for any accident by using the equation presented in Table OSC-10.1 and enter the result in Table OSC-10.1.
- f. Notify the Plant Manager or EDO about the results.
- g. Repeat steps a through e as deemed necessary.

(2) Iodine - 131 release rates.

- a. Select the time after an accident at which the release rate is to be calculated and enter in Table OSC-10.1.
- b. Determine the containment area monitor reading from the control room radiation monitor readout and record in Table OSC-10.1.
- c. Determine the containment dose rate for LOCA from Figure OSC-10.1 and record in Table OSC-10.1.
- d. Determine the Iodine -131 release rate from the containment for LOCA from Figure OSC-10.3 and enter this value in Table OSC-10.1.
- e. Estimate the iodine release rate from the containment for any accident by using the equation presented in Table OSC-10.1 and enter the result in Table OSC-10.1.
- f. Notify the Plant Manager or EDO about the results.
- g. Repeat steps a through e as deemed necessary.

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Fort Calhoun Station Unit No. 1

FC-220
1 of 3

Meteorological Data and Release Rates Calculation Sheet

Time _____ Date _____, 19____ Monitor _____

METEOROLOGICAL DATA (From Control Room)

1. Wind direction at 10 meters is _____ ° at _____ hours.

2. Temperature Difference (ΔT) is _____ °C at _____ hours.

STABILITY CLASS (from ΔT and table below) _____

3. Wind speed at 10 meters is _____ mph at _____ hours.

(present)

4. Wind speed at 10 meters is _____ mph at _____ hours.

(previous hour)

AVERAGE WIND SPEED (\bar{u}) = _____ mph x 0.447 = _____ meters/second

5. Stack flow rate = _____ cfm.

6. Condenser off gas flow rate = _____ cfm RM-057 ONLY

7. χ/Q (at site boundary) = _____ sec/m³

STABILITY CLASSES

$\Delta T(^{\circ}C)$	Class
<-1.9	A
-1.9 to -1.7	B
-1.7 to -1.5	C
-1.5 to -0.5	D
-0.5 to 1.5	E
0.5 to 4.0	F
>4.0	G

PROCESS MONITOR DATA (From Control Room)

1. RM-052 reads _____ cpm at _____ hours

RM-052 background _____ cpm at _____ hours

RM-052 net cpm is _____ ncpm.

$$Q = \frac{\text{Stack Flow Rate}}{\left[\frac{2.4E+06 \text{ cpm}}{(1) \text{ } \mu\text{Ci/cc}} \right]} \times 4.72E-04$$

RELEASE RATE (Q) = _____ Ci/sec

(1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

2. RM-062 reads _____ cpm at _____ hours
 RM-062 background _____ cpm at _____ hours
 RM-062 net cpm is _____ ncpm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{1.45E+07 \frac{\text{cpm}}{\mu\text{Ci/cc}}} \right] \times 4.72E-04$$

RELEASE RATE (Q) = _____ Ci/sec

3. RM-060 reads _____ cpm at _____ hours.
 RM-060 background _____ cpm at _____ hours.
 RM-060 net cpm is _____ ncpm.
 RM-060 sample volume:

$$\text{Sample Volume (cc)} = [\text{RM-060 flow rate (cfm)* }] \times [\text{Time cartridge in service (min)}] \times [(28,317 \text{ (cc/ft}^3\text{)})]$$

$$= \text{_____ cc}$$

* The average flow rate for RM-060 is approximately 2.3 cfm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{2.26E+03 \frac{\text{cpm} \times \text{cc}}{\mu\text{Ci (Sample Vol.)}}} \right] \times 4.72E-04$$

RELEASE RATE (Q) = _____ Ci/sec

NOTE: If the specific activity for iodine-131 has been determined from the sample cartridge using isotopic gamma spectroscopy, the release rate from the plant may be calculated using the following equation:

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \frac{\mu\text{Ci/cc} \times 4.72E-04}{\text{I-131 Spec. Activity}}$$

RELEASE RATE (Q) = _____ Ci/sec

(1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

4. RM-061 reads _____ cpm at _____ hours.

RM-061 background _____ cpm at _____ hours.

RM-061 net cpm is _____ ncpm.

RM-061 Sample volume

$$\begin{aligned} \text{Sample Volume (cc)} &= [\text{RM-061 flow rate (cfm)*}] \times [(\text{Sample collection} \\ &\quad \text{time (min)**}] \times [28,317 \text{ (cc/ft}^3\text{)}] \\ &= \text{_____ cc} \end{aligned}$$

* The average flow rate for RM-061 is approximately 7 cfm.

$$Q = \frac{\text{_____ cfm}}{\text{Stack Flow Rate}} \times \left[\frac{\text{_____ ncpm}}{4.56\text{E}+05 \frac{\text{cpm} \times \text{cc}}{\mu\text{Ci (Sample Vol.)}}} \right] \times 4.72\text{E}-04$$

RELEASE RATE (Q) = _____ Ci/sec

**The normal sample collection time used for RM-061 is 60 minutes.

5. RM-057 reads _____ cpm at _____ hours.

RM-057 background _____ cpm at _____ hours.

RM-057 net cpm is _____ ncpm

$$Q = \frac{\text{_____ cfm}}{\text{condenser off gas flow rate}} \times \left[\frac{\text{_____ ncpm}}{4.0\text{E}+07 \frac{\text{cpm}}{\mu\text{Ci/cc}}} \right] \times 4.72 \text{ E}-04$$

RELEASE RATE (Q) = _____ Ci/sec.

ISSUED

(1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

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TABLE OSC-10.1

Release Rate Calculation Using Containment
Area Radiation Monitors

Date and Time of Accident _____.

1. Noble Gas Release Rates:

Time after the Accident (t): _____ hrs.

Area Monitor Reading: _____ R/hr.

Dose Rate from Figure OSC-10.1 at time 't': _____ R/hr.

Noble Gas Release Rate at Time 't' from
Figure OSC-10.2: _____ Ci/sec.

Therefore:

$$\text{Noble Gas Release Rate (Q)} = \frac{\text{Area Monitor Reading}}{\text{Dose Rate for LOCA, Figure OSC-10.1}} \times \text{Noble Gas Release Rate for LOCA, Figure OSC-10.2}$$

(For any accident)

or: $Q = \frac{\text{R/hr}}{\text{R/hr}} \times \text{Ci/sec}$

or: Release Rate (Q) = _____ Ci/sec.

2. Iodine - 131 Release Rates

Time after the Accident (t): _____ hrs

Area Monitor Reading: _____ R/hr

Dose Rate from Figure OSC-10.1 at time 't': _____ R/hr

Release Rate from Figure OSC-10.3 at time 't': _____ Ci/sec

Therefore:

$$\text{I-131 Release Rate (Q)} = \frac{\text{Area Monitor Reading}}{\text{Dose Rate for LOCA, Figure OSC-10.1}} \times \text{I-131 Release Rate for LOCA, Figure OSC-10.3}$$

(For any accident)

or: $Q = \frac{\text{R/hr}}{\text{R/hr}} \times \text{Ci/sec}$

or: Release Rate (Q) = _____ Ci/sec.

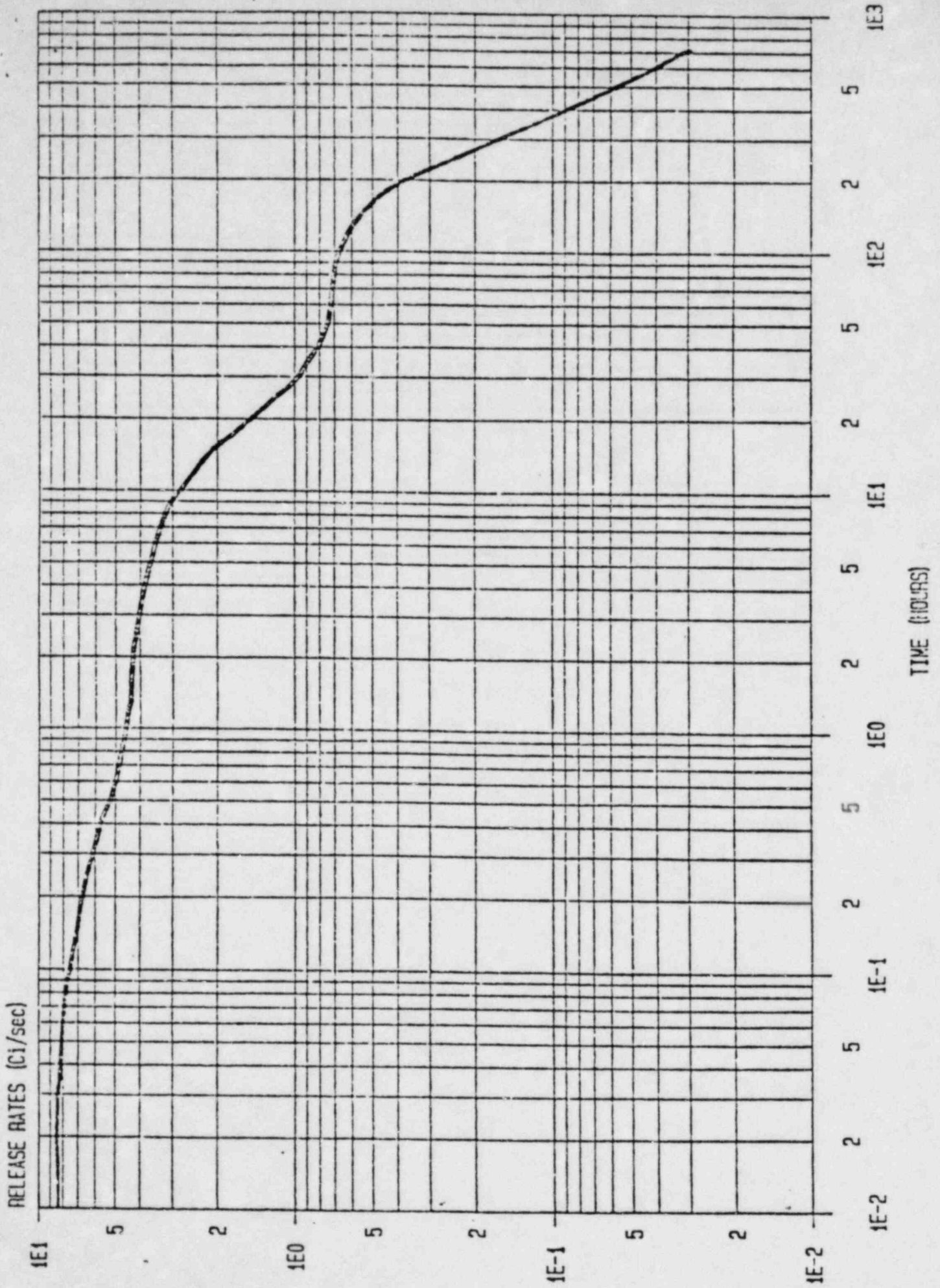
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CONI. NUBLE GAS RELEASE RATES FOR LUCA

FIGURE OSC: 10.2



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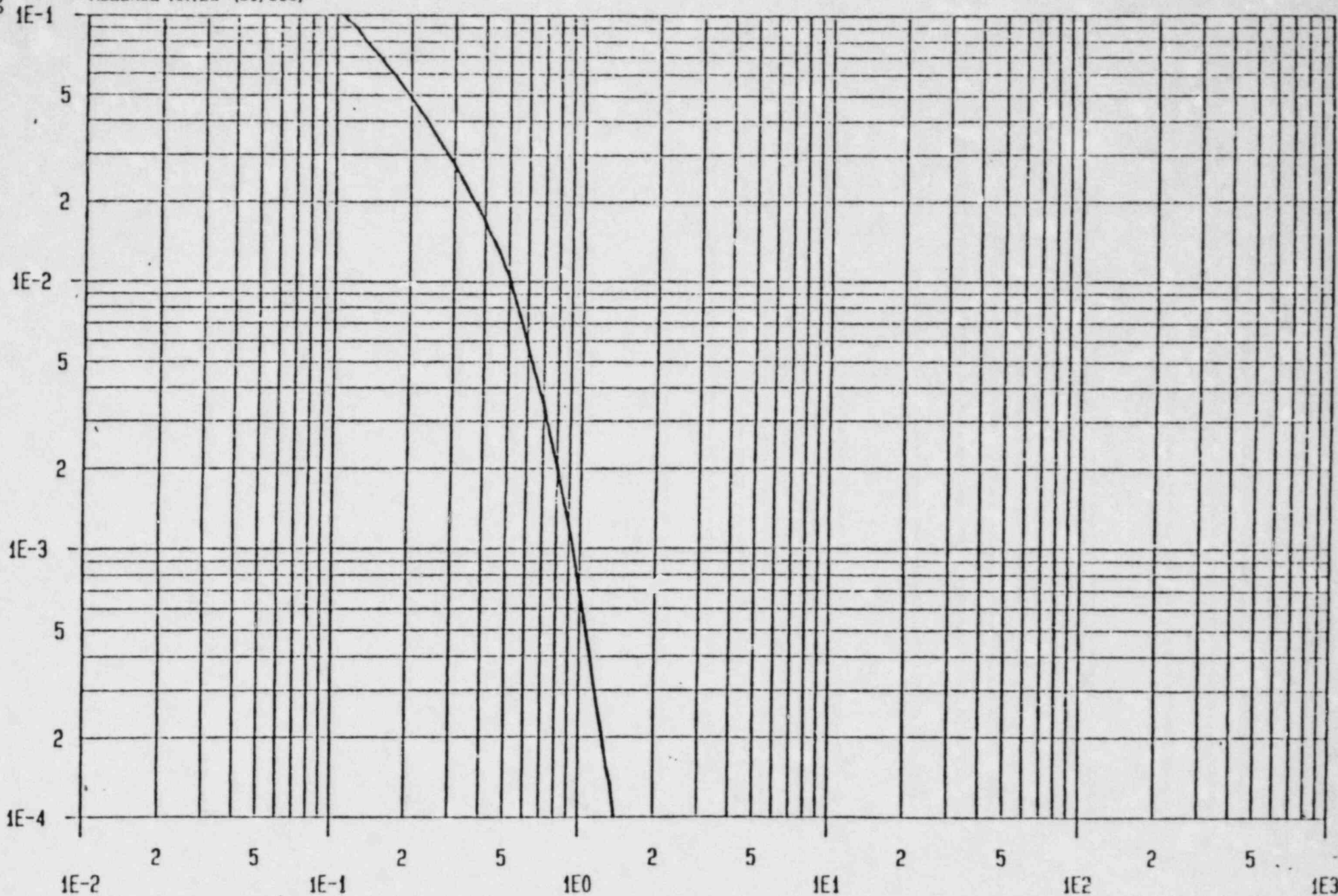
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CONT. I-131 RELEASE RATES FOR LOCA

FIGURE DSC: 10.3

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RELEASE RATES (Ci/sec)



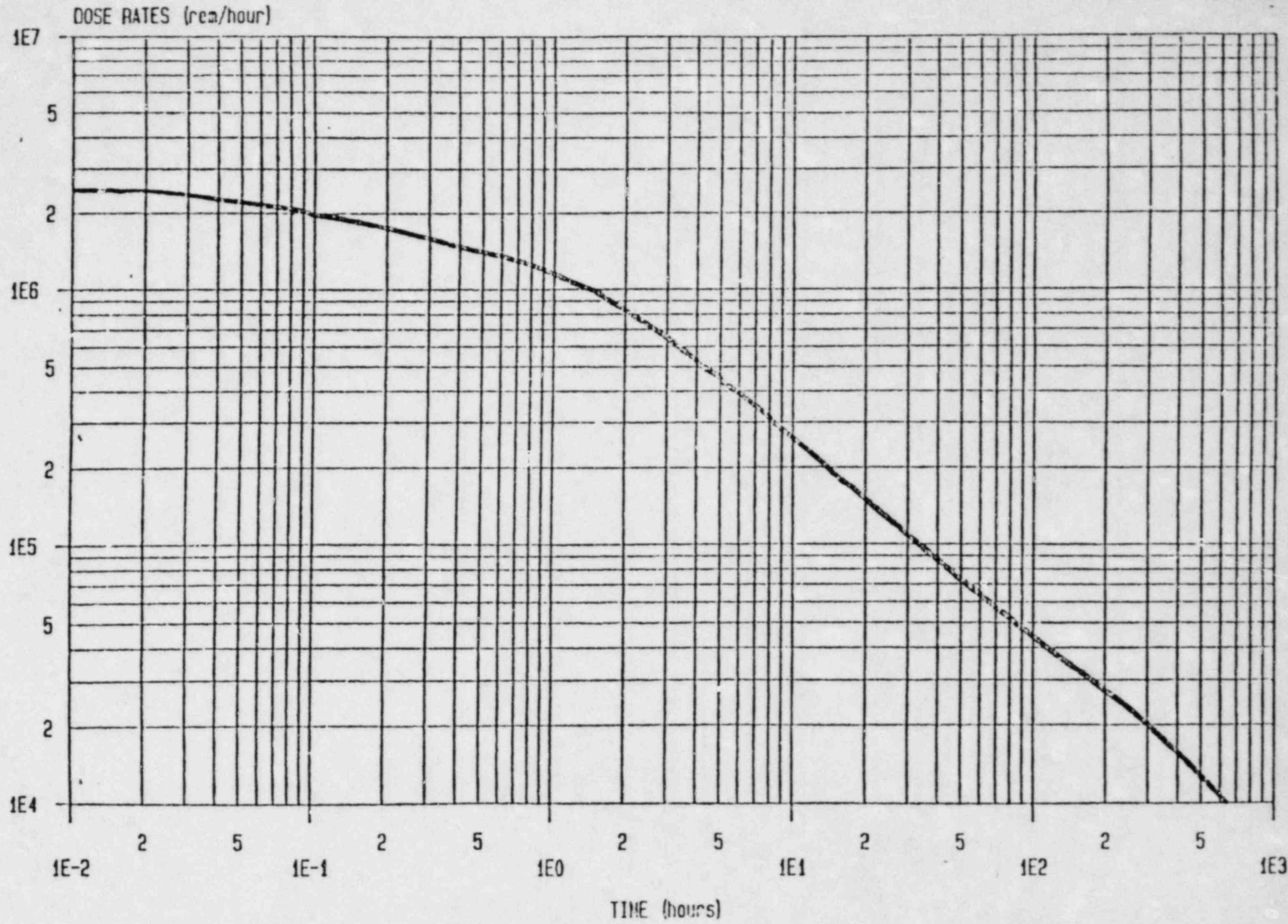
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TIME (HOURS)

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CONTAINMENT DOSE RATES FOR LUCA

FIGURE OSC: 10.1



R1 8-26-82

Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-OSC-11

Initial Dose Assessment Based On
Plant Instrumentation

I. PURPOSE

To provide initial whole body and thyroid dose rate based on noble gases and iodine-131 release rates data obtained from EPIP-OSC-10.

II. PREREQUISITES

- A. An accident has occurred and has been classified per EPIP-OSC-1.
- B. The Emergency Response Plan has been activated per EPIP-OSC-2.
- C. Source term calculations for noble gases and iodine-131 have been completed per EPIP-OSC-10.

III. PRECAUTIONS

None

IV. PROCEDURE

NOTE: Dose assessment should be performed following the completion of EPIP-OSC-10.

1. Obtain the actual χ/Q value at the site boundary from the computer for "Meteorological Data" of FC 220 attached to EPIP-OSC-10.

If actual χ/Q is not available, calculate the χ/Q at the site boundary using D.F. = 1.0 E-04 and average windspeed μ from FC-220,

$$\begin{aligned}\chi/Q &= 1.0 \text{ E-04} / \frac{\quad}{(\mu)} \\ &= \frac{\quad}{\quad} \text{ sec/m}^3\end{aligned}$$

2. Whole Body Dose Rates

- (1) Obtain the noble gases release rate ' $Q_{\text{noble gas}}$ ' or $Q_{\text{N.G.}}$, for RM-062 or RM-057 or containment area monitors from EPIP-OSC-10 and using the χ/Q from Step 1, above, calculate D_{WB} as follows:

$$D_{\text{WB}} = 0.25 \bar{E}_Y \cdot Q_{\text{N.G.}} \chi/Q \text{ rem/sec.}$$

$$\text{or} \quad = (0.25)(0.8)(Q)_{\text{N.G.}} (\chi/Q) (3.6 \text{ E+06}) \frac{\text{mrem}}{\text{hr}}$$

$$= 7.2 \text{ E+05} \times \frac{\quad}{Q_{\text{N.G.}}} \times \frac{\quad}{\chi/Q}$$

$$= \frac{\quad}{\quad} \text{ mrem/hr}$$

*Use RM-052 if RM-062 is unavailable.

IV. PROCEDURE (Continued)

3. Enter the whole body dose rate ' D_{WB} ' in Table OSC-11.1.

4. Thyroid Dose Rates

1. Obtain the I-131 release rate ' Q_{I-131} ' for RM-060 or containment area monitors from EPIP-OSC-10 and using the χ/Q from Step 1, above, calculate D_T as follows:

$$\begin{aligned}
 D_T &= Q_{I-131} \cdot B \cdot \chi/Q \cdot DCF && \text{rem/sec} \\
 &= (Q_{I-131})(6.9 \text{ E-05})(\chi/Q)(6.23 \text{ E+06})(3.6 \text{ E+06}) \text{ mrem/hr} \\
 &= 1.55 \text{ E+09} \times \frac{\quad}{Q_{I-131}} \times \frac{\quad}{\chi/Q} \\
 &= \frac{\quad}{\quad} \text{mrem/hr}
 \end{aligned}$$

5. Enter the thyroid dose rate ' D_T ' in Table OSC-11.1.

6. Repeat steps 1 through 5 as frequently as necessary, i.e. approximately once every hour.

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Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-EOF-9

PERSONNEL ACCOUNTABILITY

Method for quickly completing personnel accountability after the station nuclear alarm has sounded and station personnel are assembling at designated areas. Obtaining and maintaining the accountability of plant personnel is the responsibility of the Security & Technical Support Administrative Supervisor.

I. PURPOSE

This procedure provides the instruction to be followed by personnel accountability monitors and the security guards performing accountability duties.

II. PREREQUISITES

- A. The nuclear alarm has sounded.
- B. Station personnel are evacuating plant buildings.

III. PRECAUTIONS

- A. Security badges must be collected as personnel exit the plant.
- B. Should any other security oriented emergency occur, refer to applicable Security Procedure.

IV. PROCEDURE

1. Collect security badges of personnel who exit at the plant entrance gate. Security guards are assigned this duty.
2. Collect security badge or obtain name of personnel who exited the Auxiliary Building directly.
3. Monitor 17 of the Emergency Team will assist the security staff by providing to the security guard the names of persons who did not return a security badge or are known to remain in the plant to provide emergency action.
4. The security guard will input exit via the card reader, for personnel who returned security badges.
5. Computer printout log will indicate person(s) remaining in plant.
6. Cross-check computer list against Operations Support Center and Technical Support Center personnel verified to be in the plant for emergency duties.

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IV. Procedure (Continued)

7. Inform the Security & Technical Support Administrative Supervisor of all personnel whose safe condition has not been verified. He in turn will notify the Emergency Duty Officer.
8. The Emergency Duty Officer shall initiate a search for any unaccountable personnel after the reactor is in a shutdown condition.
9. Use procedure EPIP-OSC-7 for personnel rescue.

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Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-RR-6

POPULATION EXPOSURE PROJECTION

I. PURPOSE

To project the radiation exposure to the general population in the 10 mile EPZ radius based on the meteorological data and the gaseous releases from the Fort Calhoun Station.

II. PREREQUISITES

- A. The recovery organization has been activated per emergency procedure EPIP-RR-1.
- B. Technical Data Book is available.

III. PRECAUTIONS

None

IV. PROCEDURE

1. Contact the control room and obtain the meteorological and radiological information necessary to complete Form FC-220.
2. Update the information in Step 1, above, as frequently as necessary, or at least every hour during an actual release.
3. Projected population exposure rates:
 - A. USING THE TI-59 CALCULATOR
 - (1) Complete attached Form FC-220, for meteorological data and calculation of release rate, 'Q' by performing the following: Insert both sides of Mag Card marked "RR-6" in side of calculator. Press 'CLR'.

Meteorological Data:

- a. Press 'A'. Enter the present hour's windspeed in mph, Press 'R/S'.
- b. Enter the previous hours wind speed in mph, Press 'R/S'.
- c. Record average wind speed from the display in m/sec.
- d. Enter stack flow rate in CFM, Press 'R/S'.

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IV. PROCEDURE (Continued)PROCESS MONITOR DATA: (From Control Room)#1 RM-062*

- a. Press 'CLR'. Press 'B', Enter counts-per-minute, Press 'R/S'.
- b. Enter background counts-per-minute, Press 'R/S'.
- c. Record net counts-per-minute from display on FC-220.
- d. Enter monitor sensitivity in $\frac{\text{cpm}}{\mu\text{Ci/cc}}$, Press 'R/S'.
- e. Press 'C'. Enter 'Q' (Release Rate) from display in FC-220 and Table RR-6.1

#2 RM-052

Repeat the above steps for RM-062 using parameters for RM-052.

#3 RM-060

- a. Repeat steps a,b,c, of #1, above, using RM-060 parameters.
 - b. Enter monitor sensitivity in $\frac{\text{cpm}}{\mu\text{ci}}$, Press 'R/S'.
 - c. Press 'R/S' again, Enter RM-060 flow rate, Press 'R/S'.
 - d. Enter time of filter cartridge in service since the start of accident in minutes, Press 'R/S'.
 - e. Enter 'Q' (Release Rate) from display in FC-220 and Table RR-6.1.
- (2) Determine the diffusion factor, D.F., for downwind locations listed in Table RR-6.1, from the appropriate overlay, based on known stability class from Form FC-220 and calculate χ/Q from D.F. and average wind speed, \bar{u} , as follows:
- a. Press 'D', Enter D.F. (diffusion factor), Press 'R/S'.
 - b. Enter ' χ/Q ' from display in Table RR-6.1.

*When RM-062 is not in service, use the data for RM-052.

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IV. PROCEDURE (Continued)

(3) Calculate the whole body dose rate for the selected downwind locations as follows:

- a. Enter 'Q' in Ci/sec for RM-062* from FC-220. Press 'STO 05'.
- b. Press '2nd A', 'RCL06', then 'R/S'.
- c. Enter ' D_{WB} ' Whole Body Dose Rate from display in Table RR-6.1.

(4) Calculate thyroid dose rate at the selected downwind locations as follows:

- a. Enter 'Q' in Ci/sec for RM-060 from FC-220, Press 'STO 05', then '2nd D', 'R/S'.
- b. Enter ' D_t ' Thyroid Dose from display in Table RR-6.1.

(5) Convey this information to the Emergency Coordinator.

B. USING THE MANUAL CALCULATIONS:

- (1) Complete the attached Form FC-220, for meteorological data and calculation of release rates.
- (2) Determine the diffusion factor, D.F., for a downwind location listed in Table RR-6.1 from the appropriate overlay, based on known stability class from Form FC-220, and calculate χ/Q from D.F. and average wind speed, $\bar{\mu}$, as follows:

$$\chi/Q = \frac{\text{D.F.}}{\bar{\mu}} / \frac{\text{D.F.}}{\bar{\mu}}$$

$$= \text{_____} \text{ sec/m}^3, \text{ enter this value in Table RR-6.1}$$

- (3) Calculate the whole body dose rate for a selected downwind location as follows:

$$D_{WB} = 0.25 \bar{E}_Y(\chi/Q)(Q)(3.6E+06)$$

$$= 7.2E+05 Q\chi/Q$$

$$\text{Where: } = 7.2E+05x \frac{Q \text{ for RM-062}}{\text{or RM-052)*}} \times \frac{\chi/Q}{\chi/Q}$$

$$= \text{_____} \text{ in rem/hr,}$$

$$\text{enter this value in Table RR-6.1}$$

*Use RM-052 if RM-062 is unavailable.

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IV. PROCEDURE (Continued)

D_{WB} is the dose rate in mrems/hr

Q is the noble gas release rate in ci/sec

$\bar{\mu}$ is the avg. wind speed in m/sec

χ/Q is the dispersion factor in sec/m³

$\bar{E}\gamma$ is the avg. gamma energy per disintegration

= 0.8 Mev/dis for noble gases.

3.6E+06 is the unit conversion factor

- (4) Calculate the thyroid dose rate for a selected downwind location as follows:

$$D_T = Q \times B \times (\chi/Q) \text{ (DCF)} (3.6E+06)$$

$$= 1.55E+09 \cdot Q \times \chi/Q$$

$$\text{Where: } = 1.55E+09 \times \frac{\text{Q for RM-060}}{Q} \times \frac{\chi/Q}{\chi/Q}$$

$$= \text{_____ in mrem/hr, enter this value in Table RR-6.1}$$

D_T is the thyroid dose rate in mrems/hr

Q is the iodine release rate ci/sec

B is the breathing rate for child

$$= 6.9 \text{ E-05 m}^3/\text{sec}$$

χ/Q is the dispersion factor in sec/m³

DCF is the dose conversion factor

$$= 6.23 \text{ E+06 rem/ci}$$

3.6E+06 is the unit conversion factor

- (5) Convey this information to the Emergency Coordinator.

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TABLE RR-6.1

POPULATION EXPOSURE PROJECTION

DOWNWIND LOCATION	AVERAGE WIND SPEED $\bar{\mu}$ (m/sec)	χ/Q (sec/m ³)	RELEASE RATE 'Q' (ci/sec)	DOSE RATE (mRem/hr)
<u>Whole Body Dose</u>				
0 > x < 2 miles				
2 > x < 5 miles				
5 > x < 10 miles				
<u>Thyroid Dose</u>				
0 > x < 2 miles				
2 > x < 5 miles				
5 > x < 10 miles				

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Fort Calhoun Station Unit No. 1

FC-220
1 of 3

Meteorological Data and Release Rates Calculation Sheet

Time _____ Date _____, 19____ Monitor _____

METEOROLOGICAL DATA (From Control Room)

1. Wind direction at 10 meters is _____ ° at _____ hours.
 2. Temperature Difference (ΔT) is _____ °C at _____ hours.

STABILITY CLASS (from ΔT and table below) _____

3. Wind speed at 10 meters is _____ mph at _____ hours.
 (present)
 4. Wind speed at 10 meters is _____ mph at _____ hours.
 (previous hour)
 AVERAGE WIND SPEED (\bar{u}) = _____ mph x 0.447 = _____ meters/second
 5. Stack flow rate = _____ cfm.
 6. Condenser off gas flow rate = _____ cfm RM-057 ONLY
 7. χ/Q (at site boundary) = _____ sec/m^3

STABILITY CLASSES

ΔT (°C)	Class
<-1.9	A
-1.9 to -1.7	B
-1.7 to -1.5	C
-1.5 to -0.5	D
-0.5 to 1.5	E
0.5 to 4.0	F
>4.0	G

PROCESS MONITOR DATA (From Control Room)

1. RM-052 reads _____ cpm at _____ hours
 RM-052 background _____ cpm at _____ hours
 RM-052 net cpm is _____ ncpm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{2.4\text{E}+06 \text{ cpm}} \right] \times 4.72\text{E}-04$$

$$\left[(1) \frac{\mu\text{Ci}/\text{cc}}{\mu\text{Ci}/\text{cc}} \right]$$

RELEASE RATE (Q) = _____ Ci/sec

(1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

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2. RM-062 reads _____ cpm at _____ hours
 RM-062 background _____ cpm at _____ hours
 RM-062 net cpm is _____ ncpm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{1.45E+07 \frac{\text{cpm}}{\mu\text{Ci/cc}}} \right] \times 4.72E-04$$

RELEASE RATE (Q) = _____ Ci/sec

3. RM-060 reads _____ cpm at _____ hours.
 RM-060 background _____ cpm at _____ hours.
 RM-060 net cpm is _____ ncpm.
 RM-060 sample volume:
 Sample Volume (cc) = [RM-060 flow rate (cfm)*] x [Time cartridge in service (min)] x [(28,317 (cc/ft³))]
 = _____ cc

* The average flow rate for RM-060 is approximately 2.3 cfm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{2.26E+03 \frac{\text{cpm} \times \text{cc}}{\mu\text{Ci (Sample Vol.)}}} \right] \times 4.72E-04$$

RELEASE RATE (Q) = _____ Ci/sec

NOTE: If the specific activity for iodine-131 has been determined from the sample cartridge using isotopic gamma spectroscopy, the release rate from the plant may be calculated using the following equation:

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \frac{\mu\text{Ci/cc} \times 4.72E-04}{\text{I-131 Spec. Activity}}$$

RELEASE RATE (Q) = _____ Ci/sec

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- (1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

4. RM-061 reads _____ cpm at _____ hours.

RM-061 background _____ cpm at _____ hours.

RM-061 net cpm is _____ ncpm.

RM-061 Sample volume

$$\begin{aligned} \text{Sample Volume (cc)} &= [\text{RM-061 flow rate (cfm)*}] \times [(\text{Sample collection} \\ &\quad \text{time (min)**}] \times [28,317 \text{ (cc/ft}^3\text{)}] \\ &= \underline{\hspace{2cm}} \text{ cc} \end{aligned}$$

* The average flow rate for RM-061 is approximately 7 cfm.

$$Q = \frac{\text{Stack Flow Rate}}{\text{Stack Flow Rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{4.56\text{E}+05 \frac{\text{cpm} \times \text{cc}}{\mu\text{Ci (Sample Vol.)}}} \right] \times 4.72\text{E}-04$$

RELEASE RATE (Q) = _____ Ci/sec

**The normal sample collection time used for RM-061 is 60 minutes.

5. RM-057 reads _____ cpm at _____ hours.

RM-057 background _____ cpm at _____ hours.

RM-057 net cpm is _____ ncpm

$$Q = \frac{\text{condenser off gas flow rate}}{\text{condenser off gas flow rate}} \text{ cfm} \times \left[\frac{\text{ncpm}}{4.0\text{E}+07 \frac{\text{cpm}}{\mu\text{Ci/cc}}} \right] \times 4.72 \text{ E}-04$$

RELEASE RATE (Q) = _____ Ci/sec.

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(1) Monitors sensitivity factors are per Revision 25, dated January 7, 1982 of the Technical Data Book. Use the revised data, if available.

Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-RR-17
RECOVERY ORGANIZATION'S
SECURITY AND TECHNICAL SUPPORT ADMINISTRATIVE SUPERVISOR

I. PURPOSE

The purpose of this procedure is to detail assignment and responsibilities of personnel in the Recovery Organization filling the position of Security and Technical Support Administrative Supervisor.

II. PREREQUISITE

Both primary and alternate individuals filling the position of Security and Technical Support Administrative Supervisor have been fully trained and are aware of their duties and responsibilities.

III. PRECAUTIONS

None

IV. PROCEDURE

Upon activation of the Recovery Organization, those individuals assigned to the position of Security and Technical Support Administrative Supervisor shall carry out this assignment as detailed in Appendix 1 of this implementing procedure.

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Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-RR-17
APPENDIX 1

SECURITY AND TECHNICAL SUPPORT ADMINISTRATIVE SUPERVISOR

A. Personnel Assignment

Primary (Job Title)

Supervisor - Fort Calhoun Station Administrative and Security Services

Alternate (Job Title)

Training Coordinator

B. Reporting Location

Technical Support Center

C. Reports To

Technical Support Manager

D. Supervises/Coordinates

Security and Administrative personnel
Members of the Emergency Team

E. Basic Function(s)

1. Data Coordinator
2. Security Coordinator
3. Administrative Coordinator

F. Responsibilities

1. Upon notification of Recovery Organization activation, the primary and/or alternate Security and Technical Support Administrative Supervisor designate(s) will report to their assigned location listed in Section B of this appendix and inform the Technical Support Manager of their/his presence.
2. Call out his staff detailed in Section D of this appendix and have them report to their normally assigned department in order to support on-site activities.

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F. Responsibilities (Continued)

3. Assure staff personnel accountability by maintaining a sign-in log of reporting personnel and establish a schedule of working hours to be able to support around-the-clock operation.
4. Report the manpower status to the Technical Support Manager.
5. Coordinate Emergency Team personnel assigned Tags 16, 17, and 22, and incorporate these individuals into Recovery Organization.
6. Assign personnel to control the accumulation, retention and retrieval of plant and local environmental parameters.
7. Will provide automatically and upon request, information needed by members of the Emergency Response Organization.
8. Will serve as single point interface for the aquisition of plant data to ensure minimum interference with shift operations personnel.
9. Will direct normal in-plant security personnel in maintaining the plant security system in support of the recovery effort.
10. Will provide in-plant security personnel at various locations to support the recovery effort.
11. Will provide clerical support (e.g. typing, filing, office equipment operation) to all areas within the Technical and Operation Support Groups.
12. Coordinate with the Human Resources Coordinator in order to obtain skilled personnel needed to support the various Technical and Operations Support Group functions.
13. Coordinate with other members of the Administrative Logistics Group in order to obtain additional work space, office supplies, communications and office equipment that may be required.
14. Maintain accountability of plant personnel.

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Fort Calhoun Station Unit No. 1
Emergency Plan Implementing Procedure
EPIP-PI-1

PUBLIC INFORMATION
(Crisis Communication Plan)

Method to provide for timely and accurate release of information to the public during an emergency condition.

I. PURPOSE

This procedure provides guidance to the Division Manager - Public Relations and his staff for disseminating information to the public.

II. PREREQUISITE

- A. Pre-arranged message formats are available.
- B. Public information personnel are cognizant of Fort Calhoun Station operation and contents of this public information plan.

III. PRECAUTIONS

- A. Information forwarded from the EOF News Center must be reviewed and approved by the Emergency Duty Officer, the Recovery Manager, or their designee.
- B. The release of news information should be coordinated with state, federal, and local public information directors.

IV. PROCEDURE

Public Information procedures are contained in the attached Crisis Communication Plan.

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I. STATEMENT OF POLICY

Omaha Public Power District has a policy of full disclosure and will provide the public with accurate, prompt, and significant information, either written or spoken, concerning any emergency at Fort Calhoun Station.

In the implementation of this policy, the District will communicate with the public via telephone, radio, newspaper, television and written correspondence; with its employees by means of telephone and/or in-house publications; and with the news media by means of written materials, briefings, telecasts, radio broadcasts, lectures, conferences, and telephone.

Omaha Public Power District is responsible for supplying the public with accurate and timely information on the status of the plant. Recommendations or directives to the public for protective actions, including evacuation, are the responsibilities of county and state officials. To ensure an accurate and consistent information flow, the District will coordinate release of all information with the responsible state and local officials. If the emergency warrants, the District will utilize the Omaha-Douglas Emergency Operations Center located in the Omaha-Douglas Civic Center, 18th and Farnam Streets, as a Media Release Center.

To ensure advance public understanding of emergency procedures, the District will cooperate with state and local authorities in an annual public information and education program.

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II. CLASSIFICATION OF EMERGENCIES

The Nuclear Regulatory Commission lists four classifications of emergencies. In summary, the classifications are:

1. Notification of Unusual Event

Events are in progress or have occurred which indicate a potential degradation of the level of safety of the plant. The nature of these events may be of concern, but is below the threshold for emergencies which require immediate notification of the news media.

2. Alert

Events have occurred or are in progress which involve actual or potential substantial degradation of the level of plant safety.

3. Site Area Emergency

Events have occurred or are in progress which involve actual or likely major failures of plant functions needed for the protection of the public.

4. General Emergency

Events have occurred or are in progress which involve actual or imminent substantial core degradation with potential for loss of containment integrity.

The Plant Manager, Fort Calhoun Station, or his designee, will notify the Public Relations Division Manager, or his designee, of any emergency at the nuclear plant. The Public Relations Manager, or his designee, will then initiate implementation of this Crisis Communications Plan.

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III. PROCEDURES

Upon notification that an emergency condition exists at Fort Calhoun Station, Public Relations personnel will take appropriate action in accordance with the incident classification as follows:

A. Notification of Unusual Event

1. Public Relations Division Manager

- a. Immediately assign Information Specialist to establish communications with plant management and to gather specific information about the incident.
- b. Evaluate information in accordance with Appendix H and determine whether either immediate media notification or news release at closeout is warranted.
- c. Keep Senior Management informed through Assistant General Manager-Public Affairs.

2. Information Specialist

- a. Establish communications with plant management and gather information pertaining to the incident.
- b. Relay information to Division Manager as it develops, updating regularly.
- c. Assist with news release preparation and/or media notification if so directed by Division Manager.

B. Alert

1. Public Relations Division Manager

- a. Dispatch Information Specialist to plant.
- b. Ensure Division Information Office is staffed to handle media inquiries.
- c. Establish communications with Information Specialist at plant and determine whether immediate media notification is warranted.
- d. Prepare for additional duties in the event incident escalates to a higher classification and it is necessary to activate the Media Release Center. Keep Senior Management informed through the Assistant General Manager - Public Affairs.

- e. Place the following personnel on standby for possible activation of the Media Release Center.
- (1) Omaha-Douglas Civil Defense Coordinator
 - (2) Technical Liaisons assigned to Media Release Center
 - (3) State of Nebraska Public Information Officer
 - (4) State of Iowa Public Information Officer
 - (5) Washington County Public Information Officer
 - (6) Harrison County Public Information Officer
 - (7) Pottawattamie County Public Information Officer
 - (8) The designated Internal Services Coordinator

Names and telephone numbers for the above are listed in Appendix A.

- f. Supervise preparation of close-out news release within 24 hours after the Alert is terminated.

2. Information Specialist

- a. Proceed to plant and report to plant manager.
- b. Establish communications with Division Information Office and with Public Relations Division Manager.
- c. Relay information on plant status to Division Information Office as required, and at least hourly, until emergency is terminated.
- d. Provide news release material as directed.
- e. Brief media representatives as appropriate at the near-site press assembly point. This currently is located in the parking area at the historical landmark site on the plant access road just east of Highway 73.
- f. Assist with preparation of close-out news release within 24 hours following termination of the emergency.

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C. Site Area Emergency

and

General Emergency

1. Assistant General Manager - Public Affairs
 - a. Proceed to Media Release Center when it's activated.
 - b. Keep Senior Management updated on public information developments.
 - c. Update by telephone local governmental officials who are not directly connected with emergency response, but who are apt to field media queries. (See Appendix B for list.)
2. Public Relations Division Manager
 - a. Dispatch Information Specialist to near-site Emergency Operating Facility (EOF) unless he is already there.
 - b. Activate Media Release Center by notifying Omaha-Douglas Civil Defense Director.
 - c. Assume role as Media Release Center Coordinator and staff equip center as appropriate. (See Appendix C for staff positions and Appendix D for required equipment.)
 - d. Establish communications with Information Specialist at near-site EOF.
 - e. Notify the Recovery Manager at the EOF when Media Release Center is activated and serviceable. Also notify local news media (Appendix E), and state and local public information officers listed in Appendix A.
 - f. Assume duties as official designated spokesman for the District. Coordinate the timely exchange and release of information with federal, state, and local response organizations.
 - g. Schedule news briefings and/or news conferences and technical briefings as appropriate and in cooperation with other response agencies.
 - h. Supervise distribution of plant status reports to Assistant General Manager - Public Affairs, Rumor Control, Nebraska and Iowa Public Information Officers, and local Public Information Officers.

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- i. Supervise preparation of written news releases and serve as final release authority.
- j. Supervise preparation of voice tapes for media use and serve as final release authority.
- k. Ensure District participation in rumor control efforts.
- l. Ensure that briefings and news conferences are recorded and available for transcription. Serve as final release authority.
- m. Schedule relief personnel as required.

3. Information Specialist at EOF

- a. Proceed to near-site Emergency Operation Facility (EOF) and report to Emergency Duty Officer or Recovery Manager, as appropriate.
- b. Establish communications with both the Division Information Office and with Media Release Center.
- c. Establish communications with state and local information offices (See Appendix A for names and numbers). Maintain communications until Media Release Center is functioning, using established message forms contained in Appendix G as much as possible.
- d. Coordinate activities with state information officers when they arrive at the EOF and ensure that they receive prompt and accurate plant information.
- e. Gather plant information as it becomes available and evaluate its significance in conjunction with the assigned Technical Liaison. Follow applicable procedures outlined in Appendix F.
- f. Verify technical accuracy and transmit significant plant information to Media Release Center for final review and release to the news media.
- g. Serve as plant information source for rumor control center.
- h. Maintain written or taped log of significant reporting activities.

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4. Technical Liaison at EOF

- a. Proceed to near-site EOF and report to Emergency Duty Officer or Recovery Manager, as appropriate.
- b. Monitor status of emergency and assist Information Specialist in collecting and interpreting nuclear-related data.
- c. Review release material for technical accuracy before it is transmitted to Media Release Center.
- d. Serve as EOF contact for Technical Liaison at Media Release Center.
- e. Assist Information Specialist in providing prompt and accurate plant information to state and local public information personnel.
- f. Serve as a plant information source for rumor control center.
- g. Maintain log, taped or written, of significant reporting activities. This should be coordinated with Information Specialist.

5. Information Specialist at MRC

- a. Proceed immediately to Division information Office and report to Division Manager.
- b. Proceed to Media Release Center when activated.
- c. Relay plant status reports as received to Media Release Center Coordinator.
- d. Prepare written news releases in accordance with procedures contained in Appendix F.
- e. Prepare voice tapes for radio use in accordance with procedures contained in Appendix F.
- f. Assist with news conferences and briefings as directed by Media Release Center Coordinator.
- g. Make arrangements for taping telecasts concerning the emergency. Call 536-4524 (System Operations) with recording requests.

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6. Technical Liaison at MRC

- a. Proceed to Media Release Center and report to Media Release Center Coordinator.
- b. Assist District's designated spokesman in the interpretation and evaluation of nuclear-related information.
- c. Assist Media Release Coordinator and Information Specialists in checking releases for technical accuracy.
- d. Maintain communications with Technical Liaison at the Emergency Operating Facility.
- e. Participate in technical briefings for media as directed.
- f. Serve as a technical information source for rumor control center.

7. Public Information and Rumor Control Supervisor

- a. Proceed to Media Release Center and report to Media Release Center Coordinator.
- b. Set up and staff rumor control telephone center. Coordinate activities with state and local information officers.
- c. Release rumor control center phone number(s) to news services and provide to OPPD switchboard.
- d. Prepare and distribute periodic employee information bulletins as directed by Media Release Center Coordinator. Follow procedures outlined in Appendix J.
- e. Assist the Assistant General Manager - Public Affairs in keeping key public officials informed of plant developments.

8. Public Information Specialist - Rumor Control

- a. Proceed to Media Release Center and report to Supervisor.
- b. Man telephones and provide prompt and accurate information to citizen callers utilizing information released to you by Media Release Center Coordinator. Media Release Center Coordinator and Technical Liaison are your information sources.
- c. Report all unusual or new rumors to Rumor Control Supervisor including caller's information source, if possible to obtain.
- d. Record all calls using forms provided.

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- e. Assist with preparation and distribution of employee information bulletins as required, following procedures outlined in Appendix J.

9. Clerical Supervisor

- a. Proceed to Media Release Center and report to Media Release Center Coordinator.
- b. Set up clerical center and supervise staffing and equipping.
- c. Arrange for recording official new briefings and news conferences. At the direction of Media Release Center Coordinator, arrange for transcribing and distribution of this information.
- d. Supervise final reproduction and distribution of written news releases and employee information bulletins.
- e. Maintain a complete file, including time and date, of all information processed through the clerical center.
- f. Assign clerical help to assist Media Release Center Coordinator and designated spokesman as required.

10. Internal Services Coordinator

- a. Proceed directly to Media Release Center and report to Center Coordinator.
- b. Supervise acquisition and installation of equipment called for in Appendix D. Coordinate with Administrative Logistics Manager in the recovery organization or the appropriate member of his staff. See Appendix I.
- c. Assume responsibility for security. Supervise activities of security and messenger-driver personnel.

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IV. CREDENTIALS

District employees will need only their regular District Employee Identification cards for access to the Media Release Center.

Members of the media will be admitted on the basis of credentials issued by recognized authority, such as the City of Omaha Public Safety Department, or by their employers, subject to check by OPPD security personnel.

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V. PERIODIC PUBLIC INFORMATION AND EDUCATION

OPPD disseminates information to the public on an annual basis as to how they will be notified and what their actions should be in the event of an emergency at the Fort Calhoun Station.

This informational material is made available in written form and is updated as necessary. Specific recipients include the permanent adult population within the plume exposure Emergency Planning Zone for Fort Calhoun Station, hereafter referred to as the "10-mile EPZ." (The 10-mile EPZ includes parts of Washington and Douglas Counties in Nebraska, and parts of Harrison and Pottawattamie Counties in Iowa.) Provision has also been made to make this emergency information available to the transient population within the 10-mile EPZ.

A. Implementation

1. A computer program has been developed to identify permanent residences by names and addresses within the ten-mile EPZ. This program is the basis for information mailings and is updated annually.
2. A brochure has been developed and is distributed annually. This brochure includes specific information on the following:
 - a. Radiation (educational information);
 - b. Contact points for additional information;
 - c. Evacuation routes and relocation centers;
 - d. Sheltering;
 - e. Respiratory protection;
 - f. Radioprotective drugs; and
 - g. Special needs of the handicapped in emergency situations.
 - h. 10-mile EPZ map
 - i. Map showing evacuation routes and location of relocation centers.
3. Provision of emergency information to the transient population is accomplished through placement of a supply of brochures in hotel and motel offices, as well as maintaining a supply of materials in all government buildings, service stations, marinas, and major recreational areas, within the 10-mile EPZ.

In addition, posters have been developed to disseminate appropriate emergency information to any transient population within the 10-mile EPZ. Such notices refer the transient to more specific information sources and guide the visitor to appropriate radio and television frequencies for specific emergency information.

4. All information and materials have been coordinated with Nebraska and Iowa authorities, and all such materials are reviewed and updated annually.

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VI. PERIODIC MEDIA EDUCATION AND INFORMATION

OPPD conducts an annual program or series of programs to acquaint local news media with its emergency plan, with emergency plans of other response agencies, with information concerning radiation, and with points of contact for release of public information in an emergency. These programs are coordinated with all state and local organizations concerned with emergency planning information.

A. Implementation

1. OPPD has expanded the scope somewhat to include educational information on the operation of the pressurized water reactor at Fort Calhoun Station and on the economics of nuclear power. Subjects are covered as follows:
 - a. Operation of Fort Calhoun's nuclear reactor including emphasis on defense-in-depth systems.
 - b. Economic overview of what Fort Calhoun means to the District.
 - c. Radiation.
 - d. Overview of coordinated emergency planning and Fort Calhoun's Emergency Plan.
 - e. State and local emergency plans for Nebraska.
 - f. State and local emergency plans for Iowa.
2. State and local authorities normally cooperate in the explanation of their plans.
3. Teaching aids for the program include:
 - a. Large display board of an overhead schematic showing relationship of reactor vessel to the two steam generators, the hot and cold legs, and the four reactor coolant pumps.
 - b. A somewhat detailed display board with schematic of reactor vessel, pressurizer, steam generator, turbine, condenser, and related piping and auxiliary systems.

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- c. A large display board showing a simplified PWR flow diagram to illustrate relationship between reactor coolant system (superheated water under pressure) and the secondary system (water system which feeds steam generator where it converts to steam, drives the turbine, condenses, and begins the cycle again).
- d. Large display board depicting sector map and also evacuation routes.
- e. An information kit containing general information about OPPD, Fort Calhoun Station, a glossary of nuclear terms, radiation information, evacuation maps, sector maps and so forth. This kit will be nearly identical with those which would be handed out in the event of an actual emergency.

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Appendix A

List of personnel to be placed on standby for possible activation of Media Release Center.

	<u>Title</u>	<u>Name:</u>	<u>Telephone(s)</u>
(1)	<u>Omaha-Douglas Defense Director</u>	<u>Robert O'Brien</u>	Office - Home -
	<u>Assistant Omaha-Douglas CD Director</u>	<u>Steven Lee</u>	Office - Home -
	<u>Omaha-Douglas Building Security</u>		Office -
	<u>Omaha-Douglas Building Commission Administrator</u>	<u>Bill Gilmore</u>	Office - Home -
(2)	<u>Technical Liason(s)</u>	<u>Lloyd Keller</u>	Office - Home -
		<u>Dan Klook</u>	Office - Home -
			Office - Home -
			Office - Home -
			Office - Home -
(3)	<u>Nebraska Public Information Officer</u>	<u>Rick Semm</u>	Office - Home -
	(If Semm can't be reached, contact State Patrol in Lincoln at _____ and ask for the Civil Defense Duty Officer.)		
(4)	<u>Iowa Public Information Officer</u>	<u>Cheri Thomas</u>	Office -
(This is a 24-hour number. During non-working hours, phone will be answered by the Des Moines Police Radio Dispatcher. Ask him to connect you with the Disaster Service Duty Officer and relay message through him.)			
(5)	<u>Title</u>	<u>Name:</u>	<u>Telephone(s)</u>
	<u>Washington County PIO</u>	<u>Emmett Rogert</u>	Office - Home -
(6)	<u>Harrison County PIO</u>	<u>John Watson</u>	Office - Home -
(7)	<u>Pottawattamie County PIO</u>	<u>Dick Dunlop</u>	Office - Home -
(8)	<u>Internal Services Coordinator</u>	<u>Mason Prince</u>	Office - Home -
	<u>Alternate:</u>	<u>Jack Stanek</u>	Office - Home -

Appendix B

List of key public officials not directly responding to emergency, but who should be briefed periodically during any emergency.

Omaha

Mayor - Mike Boyle

Office: -

(After hours these people can put us in touch with the Mayor: Cindy Rushing

Larry Primeau - , John Boyd)

Council Bluffs

Mayor - David Christiansen

Office:

Home:

Missouri Valley

Mayor - Gerry LaFarge

Office:

Home:

Blair

Mayor - M. Stanley Jensen

Office:

Home:

Fremont

Mayor - Arthur L. Teters

Office:

Home:

Bellevue

Mayor - Robert M. Haworth

Office:

Home:

Douglas County - Chairman, Board of County Commissioners

Michael Albert

Office:

Home:

Pottawattamie County - Chairman, Board of Supervisors

Hubert Houser

Office:

Home:

Harrison County - Chairman, Board of Supervisors

W. H. Wohlers

Office:

Home:

Sarpy County - Chairman, Board of County Commissioners

Ed Gilbert

Office:

Work:

Home:

Washington County - Chairman, Board of Supervisors

Jack P. Jensen

Home:

Dodge County - Chairman, Board of Supervisors

Walter Mruz

Office:

Home:

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Appendix C

Media Release Center Staff Call List (including EOF info personnel)

	<u>Title</u>	<u>Name:</u>	<u>Telephone(s)</u>
(1)	<u>Designated Spokesman</u>	<u>Fred Peterson</u>	<u>Office</u>
	<u>(Division Manager - Public Relations)</u>		<u>Home</u>
	<u>Alternate:</u>	<u>Darleen Pettit</u>	<u>Office</u>
	<u>(Manager - Public Information</u>		<u>Home</u>
	<u>Alternate:</u>	<u>Mark Gautier</u>	<u>Office</u>
	<u>(Manager - Media Relations).</u>		<u>Home</u>
(2)	<u>Media Release Center Coordinator</u>	<u>Fred Petersen</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>Darleen Pettit</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>Mark Gautier</u>	<u>Office</u>
			<u>Home</u>
(3)	<u>Information Specialist EOF</u>	<u>Mark Gautier</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>Roger McCarthy</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>George Herriott</u>	<u>Office</u>
			<u>Home</u>
(4)	<u>Information Specialist - MRC</u>	<u>George Herriott</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>Alison Rider</u>	<u>Office</u>
			<u>Home</u>
	<u>Alternate:</u>	<u>Bob Miller</u>	<u>Office</u>
			<u>Home</u>
(5)	<u>Title</u>	<u>Name:</u>	<u>Telephone</u>
	<u>Technical Liaison - MRC</u>	<u>Lloyd Keller</u>	<u>Office -</u>
			<u>Home -</u>
	<u>Alternate:</u>	<u>Dan Klook</u>	<u>Office -</u>
		<u>Home -</u>	
(6)	<u>Public Information and</u>		
	<u>Rumor Control Supervisor</u>	<u>Larry Melton</u>	<u>Office -</u>
			<u>Home -</u>
	<u>Alternate:</u>	<u>John Walton</u>	<u>Office -</u>
		<u>Home -</u>	
	<u>*Alternate:</u>	<u>Sylvia Boruch</u>	<u>Office -</u>
			<u>Home -</u>

*Alternate stationed at Division Office during emergencies.

(Continued - Appendix C)

(7) Public Information

<u>Specialists - Rumor Control</u>		
<u>Title</u>	<u>Name:</u>	<u>Telephone</u>
	Helen Jenkins	Office Home
	Ed Howell	Office Home
	Jackie Perry	Office Home
	Jeri Schelor	Office Home
	Josi Lopez	Office Home
	Robert Graves	Office Home
	Connie Wilkins	Office Home
	Debie Barker	Office - Home -
	Don Meyer	Office - Home -
	Jan Smith	Office - Home -

(8) Clerical Supervisor	Vicker Sykes	Office Home
Alternate:	Sharon Jefferson	Office Home

(9) Internal Services Coordinator	Mason Prince	Office - Home -
Alternate:	Jack Stanek	Office Home -

Appendix D

Equipment and Supply List for Media Release Center

<u>Items</u>	<u>Quantity</u>	<u>Regular Location</u>
1. Dedicated phone line between EOF and ENC	1	Permanently installed at both sites.
2. Two business telephones through OPPD Centrex	2	Permanently installed at ENC
3. Telephone instruments for use with Civic Center phone jacks already in place	15	Stored on site. (Property of Civil Defense)
4. Additional phone lines rotoring off one number for rumor control use	10	Lines should be in place. Order service from NW Bell as needed.
5. Additional phone lines District and NRC for phone-tape radio reports.	Up to 10	Lines should be in place. Order service from NW Bell as needed.
6. Additional phone lines for general District and NRC use	10	Lines should be in place. Order service form NW Bell as needed.
7. Additional phone lines for use by news media	Up to 100	Lines should be in place. Media should order service from NW Bell at their own expense.
8. Briefing boards on reactor operations, sectors maps, etc.	1 each	Stored site in OPPD's emergency room at ENC.
9. News information kits	400	Stored on site in OPPD's emergency room at ENC.
10. Notepads, paper, pencils, paper clips, etc.	1 day supply	Stored on site in OPPD's emergency room at ENC.
11. Fort Calhoun Emergency Plan	1 copy	Stored on site in OPPD's emergency room at ENC.
12. Final Safety Analysis Report (FSAR)	1 copy	PR Division Office.

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<u>IS</u>	<u>Quantity</u>	<u>Regular Location</u>
13. Tape recorders and supply of tapes.	3	PR Division Office.
14. Tables and chairs for media use	As needed	Freeman Decorating (rentals)
15. Copying machine and paper supply	1	PR Division Office.
16. Typewriters	8 to 10	PR Division Office.
Telecopier equipment and supplies	1	Stored on site or in PR Division Office.
18. TV monitor and recorded	1	PR Division Office.
19. Radio	1	PR Division Office.

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Appendix E

Local Media Notification List

Associated Press

Kim Price, Bureau Manager

KGBI-FM

Rick Vincent, News Director

United Press International

Jon Sweet, Bureau Manager

KBWH (Blair)

Roy Brown, Station Manager

Omaha World Herald

Jim Bressette, City Editor

KHUB (Fremont)

Lee Baron, News Director

WOWT

Steve Murphy, News Director

KLNK (Council Bluffs)

Kevin Kassera, News Director

KETV

Ray Depa, News Director

Sun Newspapers

Tom Giitter, News Editor

KMTV

Keith Nichols, News Director

Blair Enterprise

Kenneth Rhoades, Managing Editor

KFAB

Walt Kavanagh, News Director

Blair Pilot-Tribune

Kenneth Rhoades, Managing Editor

KYNN

Walt Gibbs, News Director

Fremont Tribune

Tom Grein, Managing Editor

WOW

David Morgan, News Director

Council Bluffs Nonpareil

Jerry Sharpnack, City Editor

KESY

Torri Peters, News Director

Missouri Valley Times

Paul Hadley, Editor

KOIL

Norm Roberts, News Director

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Appendix F

News Release Procedures

1. The Information Specialist and the Technical Liaison assigned to the Emergency Operation Facility will work together as a team. A dedicated telephone line and another line equipped with telecopier facilities connect them with the Media Release Center.
2. As often as required, and at least hourly, they will gather updated plant information. They will verify this information with the Recovery Manager and then transmit it, either verbally or by telecopier, to the Media Release Center. A copy will also be provided to information officers of other agencies at the EOF site.
3. This EOF information team may also record interviews and statements of plant recovery officials and transmit them to the Media Release Center for review and release.
4. All written news releases will be prepared by an Information Specialist at the Media Release Center under the supervision of the Center Coordinator. Source material will be information supplied by the information team at the Emergency Operation Facility. The finished release will be submitted to the Center Coordinator who has it checked for technical accuracy by the Technical Liaison at the Center.
5. Special news release materials, including interviews and statements, will be prepared for telephone transmission to radio stations calling for same. These materials will also be prepared by an Information Specialist under supervision of the Center Coordinator with source material supplied by the information team at the Emergency Operating Facility.
6. All news releases, whether for printed or oral use, will be submitted to the Media Release Center Coordinator who will check them for accuracy with the Technical Liaison and then authorize release.
7. Copies of all prepared release material should be sent immediately to Senior Management, to the Recovery Manager at the EOF, and to the Rumor Control Center, showing date and time of release.

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APPENDIX G
Sample Forms

RECEIVED

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1. This is _____ representing the Omaha Public Power District.
(name)
2. I am calling to notify you of an unusual event at the Fort Calhoun Station nuclear power plant which is located in Washington County, Nebraska. This IS / IS NOT a drill. Repeating! This IS / IS NOT a drill.
3. My call-back number (or communications channel identification) is _____.
4. Time and date of event: _____
(time) (date)
5. Description of event: _____

6. No off-site assistance is required at this time; or we HAVE REQUESTED / ARE REQUESTING the following off-site assistance: FIRE / RESCUE / POLICE; Other (specify) _____.
7. No significant release of radioactive materials has taken place and no protective measures for the public appear necessary at this time.
8. Access to the site HAS / HAS NOT been terminated.
9. The plant status is currently STABLE / IMPROVING / DEGRADING
10. A further report WILL / WILL NOT be given.

TRANSMITTED _____ TIME _____ DATE _____

RECEIVED BY _____
(name and agency)

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EMERGENCY NOTIFICATION FORM

1. This is _____ representing the Omaha
(name)
Public Power District.
2. I am calling to notify you that an ALERT / SITE AREA EMERGENCY / GENERAL EMERGENCY has been declared at the Fort Calhoun nuclear power plant which is located in Washington County, Nebraska.
3. My call-back number (or communications channel identification) for verification is _____.
4. This IS / IS NOT a drill. I repeat: This IS / IS NOT a drill.
5. Time and date of event: _____
(time) (date)
6. Brief description of event: _____

7. There HAS BEEN / HAS NOT BEEN significant release of radioactive materials.
8. (If applicable) Release was AIRBORNE / WATERBORNE / SURFACE SPILL.
9. The plant status is currently STABLE / IMPROVING / DEGRADING.

TRANSMITTED BY _____ TIME _____ DATE _____

RECEIVED BY _____
(name and agency)

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EMERGENCY UPDATE - Message # _____

1. This is _____ (name) _____ representing the Omaha Public Power District.
2. I have an update on the ALERT / SITE AREA EMERGENCY / GENERAL EMERGENCY underway at the Fort Calhoun nuclear power plant in Washington County, Nebraska.
3. My call-back number (or communications channel identification) for verification purposes is _____.
4. The plant status is currently STABLE / IMPROVING / DEGRADING.
5. (If applicable.) Change the emergency class to: ALERT / SITE AREA EMERGENCY / GENERAL EMERGENCY.
6. Here are the latest developments: _____

7. There HAVE / HAVE NOT been significant radiological releases.
8. Emergency monitoring teams ARE / ARE NOT monitoring off-site.
9. Type of release or releases:
 - a. Airborne _____
 - b. Waterborne _____
 - c. Surface Spill _____
10. Type and physical state of materials released:

<u>Material</u> (check)	<u>Gas, liquid, solid</u>
Xenon _____	_____
Krypton _____	_____
Iodine _____	_____
Fission _____	_____
Products _____	_____
Corrosion _____	_____
Products _____	_____

TRANSMITTED BY _____ TIME _____ DATE _____

RECEIVED BY _____ (name and agency)

NOTIFICATION - NO SIGNIFICANT RELEASE

PUBLIC WARNING - Message "A"

SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been NO significant release of radioactivity offsite, and there is NO immediate danger to the public. Persons within a ten-mile radius of the plant should remain tuned to an Emergency Broadcast Station for further information and should prepare to take emergency measures if developments warrant.

Repeating, a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been NO significant release of radioactivity offsite, and there is NO immediate danger to the public. Persons within a ten-mile radius of the plant should remain tuned to an Emergency Broadcast Station for further information and should prepare to take emergency measures if developments warrant.

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TAKE SHELTER
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "B"

SITE AREA EMERGENCY

A SITE AREA EMERGENCY HAS BEEN invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the Plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and monitor an Emergency Broadcast Station for further instructions.

Repeating, a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the Plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and monitor an Emergency Broadcast Station for further instructions.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

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TAKE SHELTER
PREPARE TO EVACUATE
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "C"

SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the Plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and be prepared to evacuate. If evacuation becomes necessary, specific instructions will be broadcast over this Emergency Broadcast Station.

Repeating, a SITE AREA EMERGENCY has been invoked at Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety within the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the Plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and be prepared to evacuate. If evacuation becomes necessary, specific instructions will be broadcast over this Emergency Broadcast Station.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

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TAKE SHELTER
EVACUATE PREGNANT WOMEN AND PRE-SCHOOL CHILDREN
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "D"

SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released off-site. Pregnant women and pre-school children within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Persons remaining should take shelter and be prepared to evacuate. Specific evacuation instructions for those who need them will be included in this broadcast.

Repeating, a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released off-site. Pregnant women and pre-school children within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Persons remaining should take shelter and be prepared to evacuate. Specific evacuation instructions for those who need them will be included in this broadcast.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING"); AND WITH PUBLIC MESSAGE "R", WHICH IS ENTITLED "EVACUATION".)

EVACUATION
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "E"
SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. All persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Specific evacuation instructions for those who need them will be included in this broadcast.

Repeating, a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. All persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Specific evacuation instructions for those who need them will be included in this broadcast.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "R" WHICH IS ENTITLED "EVACUATION".)

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TAKE SHELTER
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "F"
SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been a release of significant radioactivity offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and remain tuned to an Emergency Broadcast Station.

Repeating, a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

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(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

SEP 10 1982

R2 9-14-82

TAKE SHELTER
EVACUATE PREGNANT WOMEN
AND PRE-SCHOOL CHILDREN
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "G"

SITE AREA EMERGENCY

A SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been a release of significant radioactivity offsite. Pregnant women and pre-school children within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. All others should take shelter and be prepared to evacuate. Specific evacuation instructions for those who need them will be included in this broadcast.

Repeating a SITE AREA EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

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(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING");
AND THE PUBLIC MESSAGE "R", WHICH IS ENTITLED "EVACUATION".)

R2 9-14-82

SEP 10 1982

EVACUATION
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "H"

SITE AREA EMERGENCY

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This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

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This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been a release of significant radioactivity offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Specific evacuation instructions for those who need them will be included in this broadcast.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "R" WHICH IS ENTITLED "EVACUATION".)

PUBLIC WARNING - Message "I"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been NO significant release of radioactivity offsite, and there is NO immediate danger to the public. Persons within a ten mile radius of the plant should remain tuned to an Emergency Broadcast Station for further information and should prepare to take shelter if developments warrant.

Repeating, a GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been NO significant release of radioactivity offsite, and there is NO immediate danger to the public. Persons within a ten-mile radius of the plant should remain tuned to an Emergency Broadcast Station for further information and should prepare to take shelter if developments warrant.

SEP 10 1982

R2 9-14-82

NOTIFICATION
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "J"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and monitor an Emergency Broadcast Station for further instructions.

Repeating, a GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and monitor an Emergency Broadcast Station for further instructions.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

SEP 10 1982

R2 9-14-82

TAKE SHELTER
PREPARE TO EVACUATE
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "K"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and be prepared to evacuate. If evacuation becomes necessary, specific instructions will be broadcast over this Emergency Broadcast Station.

Repeating, a GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and be prepared to evacuate. If evacuation becomes necessary, specific instructions will be broadcast over this Emergency Broadcast Station.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

SEP 10 1982

R2 9-14-82

TAKE SHELTER
EVACUATE PREGNANT WOMEN AND
PRE-SCHOOL CHILDREN
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "L"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Pregnant women and pre-school children within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Persons remaining should take shelter and be prepared to evacuate. Specific evacuation instructions for those who need them will be included in this broadcast.

Repeating, a GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. Pregnant women and pre-school children within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Persons remaining should take shelter and be prepared to evacuate. Specific evacuation instructions for those who need them will be included in this broadcast.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING");
AND THE PUBLIC MESSAGE "R", WHICH IS ENTITLED "EVACUATION".)

SEP 10 1982

R2 9-14-82

EVACUATION
POSSIBLE RADIOACTIVE RELEASE

PUBLIC WARNING - Message "M"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There is a possibility that some significant radioactivity will be released offsite. All persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Specific evacuation instructions for those who need them will be included in this broadcast.

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There is a possibility that some significant radioactivity will be released offsite. All persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should immediately begin orderly evacuation. Specific evacuation instructions for those who need them will be included in this broadcast.

(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "R" WHICH IS ENTITLED "EVACUATION".)

SEP 10 1982

R2 9-14-82

TAKE SHELTER
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "N"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

There has been a release of significant radioactivity offsite. Persons within 2 miles of the plant in Sectors _____ and 5 miles of the plant in Sectors _____ and _____ miles of the plant in Sectors _____ as established in the State Emergency Plan and shown in your Emergency Planning Information Brochure should take shelter immediately and remain tuned to an Emergency Broadcast Station.

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This emergency measure has been taken because of abnormal operating conditions which are affecting the level of safety within the plant and which could affect the level of safety in the immediate vicinity of the plant.

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(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING".)

ISSUED

SEP 10 1982

R2 9-14-82

TAKE SHELTER
EVACUATE PREGNANT WOMEN AND
PRE-SCHOOL CHILDREN
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "O"

GENERAL EMERGENCY

A GENERAL EMERGENCY has been invoked at the Fort Calhoun nuclear power plant by officials of the Omaha Public Power District.

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(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "Q" WHICH IS ENTITLED "SHELTERING");
AND THE PUBLIC MESSAGE "R", WHICH IS ENTITLED "EVACUATION".)

SEP 10 1982

R2 9-14-82

EVACUATION
RADIOACTIVE RELEASE HAS OCCURRED

PUBLIC WARNING - Message "P"

GENERAL EMERGENCY

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(FOLLOW THIS MESSAGE WITH PUBLIC MESSAGE "R" WHICH IS ENTITLED "EVACUATION".)

ISSUE

SEP 10 1982

R2 9-14-82

PUBLIC MESSAGE - "Q"SHELTERING

In connection with the nuclear power plant incident now underway, State authorities have directed people in certain designated areas near the plant to take shelter immediately. Here are some specific sheltering instructions.

1. If you are outdoors, go inside immediately. Once indoors, close all windows and doors. Turn off fans, air conditioning, and close any other air intakes.
2. If you have come in from outside, wash your hands and face as a minimum, particularly before handling or eating any food. If possible, take a shower using cool or lukewarm water. Wash any items of clothing you were wearing outside.
3. Cover all "open" food containers.
4. Do not use your telephone unless it is absolutely necessary. Keep phone lines open for emergencies.
5. Stay sheltered until you receive official notice that it is safe to go out. Stay tuned to your emergency broadcast station for later information and further instructions.

PUBLIC MESSAGE - "R"EVACUATION

In connection with the nuclear power plant incident now underway, State authorities have directed the evacuation of certain designated areas near the plant. Here are some specific evacuation instructions.

1. Remain calm. You're far more likely to be hurt acting in haste than you are by radioactivity.
2. Gather together personal items you may need: soap and towels, shaving articles, toothpaste and toothbrush, toilet paper, sanitary supplies, eyeglasses, dentures, credit cards, baby foods, disposable diapers. You may also have use for other supplies such as a portable radio, flashlight, batteries, and plastic or paper bags.
3. Do not forget prescription medicines and other medical supplies.
4. Provide for pets and livestock, sheltering them with food and water where possible.
5. Before leaving your home, shut off all appliances and lock all doors and windows.
6. Drive safely, using evacuation routes designated in the State Emergency Plan and shown in your Emergency Planning Information Brochure. Stay tuned to this Emergency Broadcast Station for further protective information.
7. Unless you plan to stay with friends or relatives outside the evacuation area, proceed directly to the reception area designated in the State Emergency Plan and shown in your Emergency Planning Information Brochure where personnel will be available to help you find temporary living accommodations.
8. If you need transportation, contact the Sheriff's office or the State Patrol.

ISSUED

PUBLIC MESSAGE - "S"THYROID BLOCKING

Because of the nuclear power plant incident now underway, State health officials are considering the use of a protective drug, potassium iodide. In a radiation emergency, radioactive iodine could be released into the air. Potassium iodide, which is a form of iodine, can help protect you.

It works this way. Certain forms of iodine help your thyroid gland work properly. Most people get the iodine they need from foods, like iodized salt or fish. The thyroid can store or hold only a certain amount of iodine. If you take potassium iodide, it will fill up your thyroid. This reduces the chance that harmful radioactive iodine will enter into the thyroid gland.

Any distribution of this prescription to either emergency workers or to members of the general public will be by state and/or local officials only and will be strictly controlled. You should take potassium iodide only when public health officials tell you to do so.

If you are told to take this medicine, take it one time every 24 hours, following directions carefully. Do not take it more often. More will not help you, and it may increase the risk of side effects. Do not take this drug if you know you are allergic to iodide. Should you experience side effects or an allergic reaction, stop taking potassium iodide and call a doctor or public health authority for instructions.

ISSUED

SEP 10 1982

R2 9-14-82

PUBLIC MESSAGE - "T"PERSONAL RESPIRATORY PROTECTIONS

Because of the nuclear power plant incident now underway, State health officials are advising affected citizens to improvise respiratory protective devices. Such devices can be helpful in protecting against airborne solid particulates.

A man's cotton handkerchief can be an effective filtration device. The handkerchief should be dry, folded eight times, and placed over the mouth and nose. A dry bath towel, folded in two layers, is almost as effective.

Of course, the total effectiveness of such devices depends on a conscientious effort to obtain and maintain a good close fit over the mouth and nose. Small children should be assisted in maintaining such a fit.

APPENDIX HGUIDANCE ON PUBLIC ANNOUNCEMENTS
CONCERNING NUCLEAR POWER PLANTS

Public announcements should be made for the following types of events:

Non-routine release of significant radioactive material to
Unrestricted Areas

Release of significant quantities of radioactive material to
Restricted Areas

Significant radiological event off site, occurring during transport,
or affecting the public

Injuries to or death of employees at operating nuclear power plants

Significant radiation exposures to employees or members of the
public

Effects of earthquakes, floods, tornados or other natural occurrences
having potential for damaging nuclear power plants.

Incidents causing major damage, e.g., fires or explosions

Environmental concerns, e.g., fish kills, large chemical release,
or other such events impacting on the public

Major construction interruption resulting from Regulatory action

Major enforcement actions; fines or other sanctions

Non-scheduled shutdowns expected to last for more than one week,
regardless of cause

Shutdowns resulting from failure of or damage to safety-related
equipment that exceeded one day

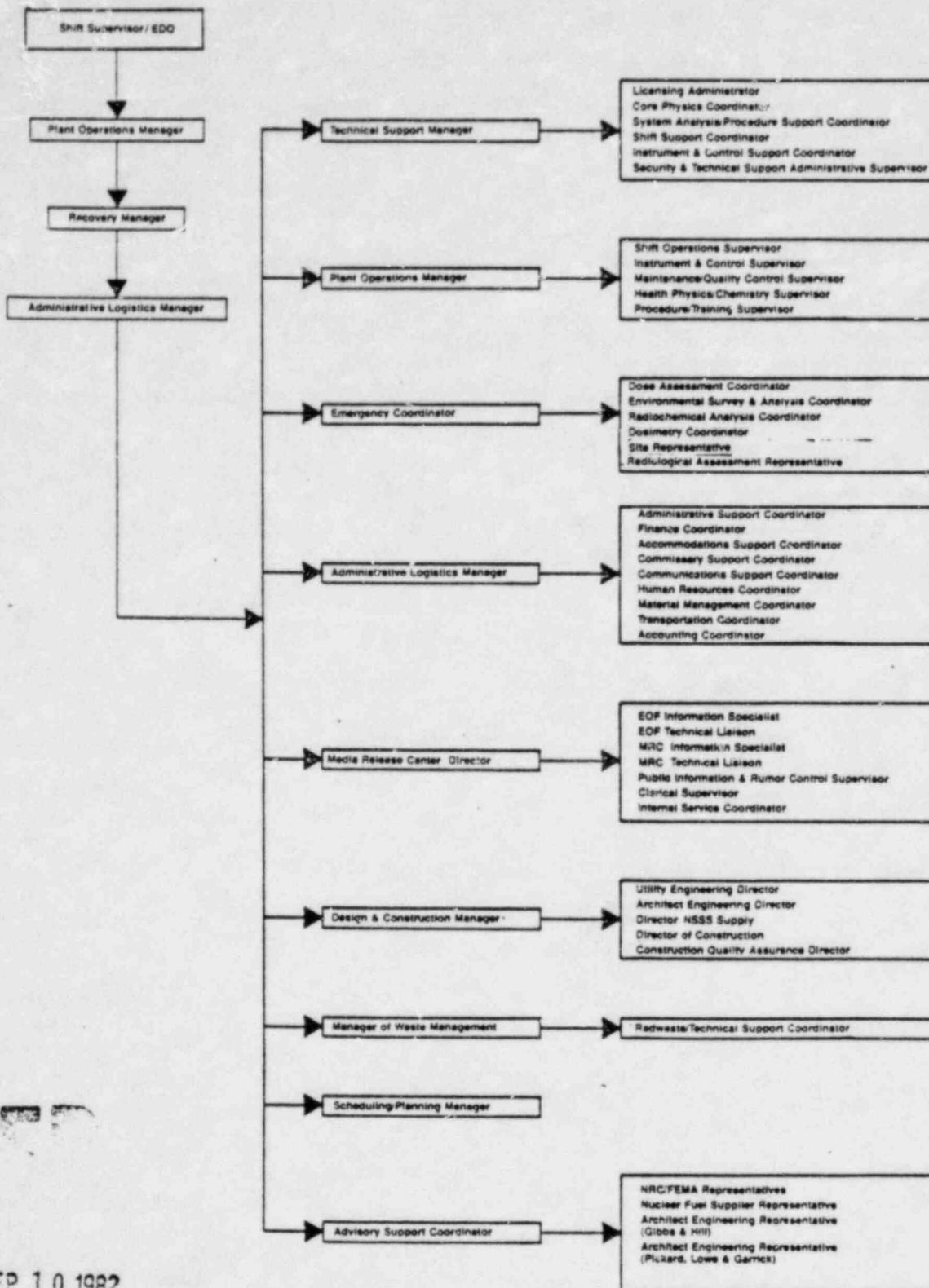
Failure of or damage to safety-related equipment, if the time for
repair is likely to exceed that allowed by the technical speci-
fications (to be issued as early as possible).

ISSUED

SEP 10 1982

R2 9-14-82

APPENDIX 1



SEP 10 1982

Omaha Public Power District
Fort Calhoun Station
Unit #1

RECOVERY ORGANIZATION CALL TREE

Emergency Plan

R2 9-14-82

PUBLIC MESSAGE - "T"PERSONAL RESPIRATORY PROTECTIONS

Because of the nuclear power plant incident now underway, State health officials are advising affected citizens to improvise respiratory protective devices. Such devices can be helpful in protecting against airborne solid particulates.

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Of course, the total effectiveness of such devices depends on a conscientious effort to obtain and maintain a good close fit over the mouth and nose. Small children should be assisted in maintaining such a fit.

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Appendix J

Employee Information Bulletins.

1. Obtain periodic update information from Media Release Center Coordinator.
2. Prepare brief information bulletins reflecting any significant changes in plant status or in status of the emergency. Preface each bulletin with the date and time issued and with request that it be given widest employee distribution among employees.
3. Secure approval for release from Media Release Center Coordinator.
4. Distribute to the following points within the company via telecopier in Room 123.

<u>Location</u>	<u>Contact</u>	Contact		<u>Speed</u>
		<u>Phone</u>	<u>FAX</u> <u>Phone</u>	
Electric Building	Marie Schmidt			1 min.
Dispatchers	Herb Graham			1 min.
Omaha Line	Bob Adamson			1 min.
Irvington Center	Jim Thompson			1 min.
Papio Center	Leonard Coufal			1 min.

Distribute to the following points via telecopier located at rumor control center position.

<u>Location</u>	<u>Contact</u>	Contact		<u>Speed</u>
		<u>Phone</u>	<u>FAX</u> <u>Phone</u>	
Jones Street	Jane Morfeld			6 min.
North Omaha	Mary Maslowsky			6 min.
Nebraska City	Cindy Patton			6 min.
Sub. 906	Larry Rischling			6 min.

5. Written news releases issued by the District concerning the emergency should also be transmitted to employees through this telecopier system as described.
6. Priority on use of telecopier in Room 123 will always be given to communications from the EOF to the Media Release Center.

R2 9-14-82

SEP 10 1982