



Omaha Public Power District
444 South 16th Street Mall
Omaha, Nebraska 68102-2247

November 10, 2000
LIC-00-0095

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Mail Station P1-137
Washington, DC 20555

Reference Docket No. 50-285

**SUBJECT: Transmittal of changes to Radiological Emergency Response Plan (RERP) and
Emergency Plan Implementing Procedures (EPIP) manuals.**

In accordance with 10 CFR 50 Appendix A Part V and 10 CFR 50.4(b)(5)(iii), please find RERP and EPIP change packages enclosed for the Document Control Center (holder of Copy 165) and the NRC Emergency Response Coordinator (holder of Copies 154 and 155).

The document update instructions and summary of changes are included on the Confirmation of Transmittal (Form EP-1) forms attached to each controlled copy change package. Please return the Confirmation of Transmittal forms by December 24, 2000.

The revised documents included in the enclosed package are:

RERP pages 11, 12, and 13
RERP-Section A cover page
EPIP Index dated 10/24/00
EPIP-OSC-15 R22 issued 10/24/00
EPIP-RR-90 R0 issued 10/24/00

If you have any questions regarding the enclosed changes, please contact me at (402) 533-6537.

Sincerely,

M. T. Frans
Manager – Nuclear Licensing

MTF/ash

Enclosures

c: T. H. Andrews, Emergency Response Coordinator (2 sets)
L. R. Wharton, NRC Project Manager (w/o enclosures)
W. C. Walker, NRC Senior Resident Inspector (w/o enclosures)
Winston & Strawn (w/o enclosures)

A045

OMAHA PUBLIC POWER DISTRICT

Confirmation of Transmittal for
Emergency Planning Documents/Information

- Radiological Emergency Response Plan (RERP) Emergency Plan Implementing Procedures (EPIP) Emergency Planning Forms (EPF)
- Emergency Planning Department Manual (EPDM) Other Emergency Planning Document(s)/ Information

Transmitted to:

Name: Document Control Desk Copy No: 165 Date: _____
Tom Andrews Copy No: 154
Tom Andrews Copy No: 155

The following document(s) / information is forwarded for your manual:

REMOVE SECTION

RERP pages 11, 12 and 13
RERP-Section A cover
EPIP Index dated 09/14/00
EPIP-OSC-15 R21 issued 08/24/00
N/A

INSERT SECTION

RERP pages 11, 12 and 13
RERP-Section A cover
EPIP Index dated 10/24/00
EPIP-OSC-15 R22 issued 10/24/00
EPIP-RR-90 R0 issued 10/24/00

Summary of Changes:

RERP pages 11, 12 and 13 were reissued to correct a formatting error and the cover of RERP-Section A was reissued to remove a misplaced revision bar.

EPIP-OSC-15 was revised to change the action steps for obtaining keys to a note and the step for obtaining the EP Activation Booklet was clarified.

EPIP-RR-90 is a new procedure developed to provide guidance for the new CHP Communicator positions.



Supervisor - Emergency Planning

I hereby acknowledge receipt of the above documents/information and have included them in my assigned manuals.

Signature: _____ Date: _____

Please sign above and return by **12/24/00** to:

Karma Boone
Fort Calhoun Station, FC-2-1
Omaha Public Power District
444 South 16th Street Mall
Omaha, NE 68102-2247

NOTE: If the document(s)/information contained in this transmittal is no longer requested or needed by the recipient, or has been transferred to another individuals, please fill out the information below.

Document(s)/Information No Longer Requested/Needed

Document(s)/Information Transferred to:

Name: _____ Mailing Address: _____

ACCIDENT CONSIDERATIONS

3. EXPLOSION

Because of the accumulation of waste gases in the waste gas decay tanks, the possibility and consequences of an explosion have been considered. An explosion could result in an unexpected, uncontrolled release to the atmosphere of radioactive fission gases that were stored in the waste gas system. A failure of any of the waste gas decay tanks or associated piping could also result in a release of gaseous activity. The noble gases stored in the tanks would diffuse and become diluted during their transport to the site boundary. The projected Deep Dose Equivalent (DDE) at the exclusion area boundary would be less than 1.0 Rem. This conservative analysis is based upon 1% fuel cladding defects, and accumulation of all noble gases without release over a full core cycle. Emergency procedures addressing a Waste Gas Incident, would be placed into effect immediately and offsite monitoring teams would be dispatched downwind.

4. TOXIC CHEMICAL RELEASE ACCIDENTS

The primary toxic chemical release accidents which may result in toxic gas concentrations at Fort Calhoun Station are shown below:

<u>TOXIC CHEMICAL</u>	<u>ACCIDENT</u>
Ammonia (NH ₃)	Rupture of two 25,000 ton offsite refrigerated tanks.
Ammonia	Rupture of two 30,000 gal. offsite non-refrigerated tanks.
Ammonia	Rupture of a 78 ton railroad tank car.
Ammonia	Rupture of a 2 ton tank truck.

The above accidents will not pose a hazard to control room personnel, due to toxic gas monitors located at the fresh air intake of the control room, which isolates the control room before the gases reach the toxic limit. The stringent odor of ammonia makes station personnel immediately aware of any leakage or toxic gas cloud.

ACCIDENT CONSIDERATIONS

4. (Continued)

The toxic gas monitors sample for NH_3 and continuously monitor the fresh air to the control room during normal plant operations.

At different phases of plant operation, Hydrogen and/or Nitrogen gases blanket the volume control tank and the waste gas system. Considering that the deleterious effect of these gases is the exclusion of oxygen, a release to the atmosphere diminishes the harmful effect and a serious hazard is eliminated.

In the event of an offsite accidental release of chemicals, within a five (5) mile radius of the Fort Calhoun Station, the Blair Fire Department emergency procedures requires notification to the Fort Calhoun Station. The counties of Washington (Nebraska) and Harrison (Iowa) have agreed to notify the Fort Calhoun Station when hazardous chemical accidents occur within five miles of the station. The Blair Industrial Park Co-Op, emergency notification system is an organization of industries, including Fort Calhoun Station that have banded together to form a warning system to notify the member industries and the Washington County Dispatch center of a potential or actual event occurring at a member facility. Appropriate action is taken, especially in the control room, to ensure that air remains breathable. For long duration toxic accidents, six (6) hours of compressed air is available for five (5) control room operators coupled with provisions to obtain additional air within this time period.

5. MAJOR STEAM RELEASE

The offsite consequences of a steam line rupture incident has been evaluated and is documented in the Fort Calhoun Station, Unit NO. 1 USAR. The maximum size steam line rupture is a circumferential double-ended rupture of the 36-inch main steam header. The analysis of this incident at the site boundary is calculated to be 0.9 Rem total whole body exposure. Plant personnel would be protected by normal health physics practices and procedures. Operator action follows the emergency procedures addressing a Steam Line Rupture with Loss of Offsite Power.

6. PERSONNEL INJURY

A fully stocked First Aid Room is available in the Plant. Immediate and temporary care may be given to the injured person using standard First Aid practices. If the injury involves contamination, efforts to decontaminate the injured person to reasonable levels are made prior to transfer to the First Aid Room or to offsite medical facilities. If decontamination is not practical, the injured person is covered in such a manner as to minimize the spread of contamination until either medical aid can be obtained or until the injured person can be transported to the NHS University Hospital Radiation Health Center.

ACCIDENT CONSIDERATIONS

7. NATURAL DISASTERS

A natural disaster may occur which could initiate any of the accidents previously discussed. The reactor may be placed in a shutdown condition, depending upon the anticipated or experienced severity of the disaster.

Fort Calhoun Station
Unit No. 1

Distribution Authorized

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RERP-SECTION A

RADIOLOGICAL EMERGENCY RESPONSE PLAN

Title: ASSIGNMENT OF ORGANIZATIONAL RESPONSIBILITY
(ORGANIZATIONAL CONTROL)

FC-68 Number: 48558

Reason for Change: Change reference from "Civil Defense" to "Emergency Management", change reference to Nebraska Department of Health and Human Services Regulation and Licensure.

Contact Person: M. Reller

Documentable Error (a): Pages 1, 3 and 5 (reissue all pages) (11-30-99)

Documentable Error (b): Page 3 (reissue all pages) (03-07-00)

Documentable Error (c): Page 3 (reissue all pages) (10-10-00)

EMERGENCY PLAN IMPLEMENTING PROCEDURE INDEX

<u>PROCEDURE NUMBER</u>	<u>TITLE</u>	<u>REVISION/DATE</u>
EPIP-OSC-1	Emergency Classification	R34 09-14-00
EPIP-OSC-2	Command and Control Position Actions/Notifications	R36 08-24-00
EPIP-OSC-9	Emergency Team Briefings	R7 12-09-99
EPIP-OSC-15	Communicator Actions	R22 10-24-00
EPIP-OSC-20	Site Population Exposure Estimates	R6 11-10-95
EPIP-OSC-21	Activation of the Operations Support Center	R9 08-24-00
EPIP-TSC-1	Activation of the Technical Support Center	R21 08-24-00
EPIP-TSC-2	Catastrophic Flooding Preparations	(R0 03-22-95) DELETED 05-09-95 REINSTATED R2 02-06-96
EPIP-TSC-8	Core Damage Assessment	R13 01-19-00
EPIP-EOF-1	Activation of the Emergency Operations Facility	R12 08-24-00
EPIP-EOF-3	Offsite Monitoring	R16 10-26-99
EPIP-EOF-6	Dose Assessment	R28 02-29-00a
EPIP-EOF-7	Protective Action Guidelines	R12 09-01-94
EPIP-EOF-10	Warehouse Personnel Decontamination Station Operation	R10 01-13-00
EPIP-EOF-11	Dosimetry Records, Exposure Extensions and Habitability	R18 09-18-97b
EPIP-EOF-19	Recovery Actions	R7 09-30-98
EPIP-EOF-21	Potassium Iodide Issuance	R3 09-18-97
EPIP-EOF-23	Emergency Response Message System	R5 10-12-99

EMERGENCY PLAN IMPLEMENTING PROCEDURE INDEX

<u>PROCEDURE NUMBER</u>	<u>TITLE</u>	<u>REVISION/DATE</u>
EPIP-EOF-24	EOF Backup Alert Notification System Activation	R3 09-09-99
EPIP-RR-11	Technical Support Center Director Actions	R14 02-29-00
EPIP-RR-13	Reactor Safety Coordinator Actions	R14 12-09-99
EPIP-RR-17	TSC Security Coordinator Actions	R13 11-30-99
EPIP-RR-17A	TSC Administrative Logistics Coordinator Actions	R17 08-24-00
EPIP-RR-19A	Operations Liaison Actions	R5 10-07-99
EPIP-RR-21	Operations Support Center Director Actions	R12 09-23-99
EPIP-RR-21A	Maintenance Coordinator Actions	R4 11-30-99
EPIP-RR-22	Protective Measures Coordinator/Manager Actions	R20 08-24-00
EPIP-RR-22A	Chemistry Coordinator Actions	R5 02-29-00
EPIP-RR-25	EOF Dose Assessment Coordinator Actions	R19 08-24-00
EPIP-RR-28	OSC Accountability and Dosimetry Technician Actions	R7 09-01-94a
EPIP-RR-29	EOF Administrative Logistics Manager Actions	R17 10-07-98
EPIP-RR-63	EOF Dose Assessment Assistant Actions	R7 05-30-96
EPIP-RR-66	Communication Specialist Actions	R8 08-31-99
EPIP-RR-72	Field Team Specialist Actions	R12 02-29-00
EPIP-RR-87	Radiation Protection Coordinator Actions	R7 08-24-00
EPIP-RR-90	EOF/TSC CHIP Communication Actions	R0 10-24-00

Fort Calhoun Station
Unit No. 1

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EPIP-OSC-15

EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: COMMUNICATOR ACTIONS

FC-68 Number: EC 25614

Reason for Change: Change action steps about obtaining keys to a note. Edit step(s) about EP Activation Booklet to clarify intent.

Requestor: Mark Reller

Preparer: Rhonda Hankins

COMMUNICATOR ACTIONS

NON-SAFETY RELATED

1. PURPOSE

- 1.1 This procedure provides guidance to designated Communicators in the Control Room, TSC and EOF for making required notifications.

2. REFERENCES/COMMITMENT DOCUMENTS

- 2.1 SO-R-1, Reportability Determinations
- 2.2 FC-1188, Emergency Notification Form
- 2.3 Emergency Planning Activation Instructions Booklet
- 2.4 Emergency Telephone Book
- 2.5 EPIP-OSC-2, Command and Control Position Actions/Notifications
- 2.6 Ongoing Commitment Documents
- AR 13301, IER 92-20

3. DEFINITIONS

- 3.1 ANS - "Alert Notification System". The system of sirens within OPPD's designated EPZ, used to provide public warning of a plant emergency event.
- 3.2 BLAIR INDUSTRIAL PARK CO-OP - Emergency Notification System. An organization of industries including the Fort Calhoun Station that have banded together to form a warning system to notify member industries and the Washington County Dispatch Center of a potential or actual release of toxic chemicals and/or hazardous material from its facility.
- 3.3 CODE SYSTEM - A system devised by members of the Blair Industrial Park Co-Op to classify events that have occurred at the initiating facility's site. These codes are:
- 3.3.1 CODE BLUE - A minor emergency or problem such as a fire, explosion, gas or liquid release, unusual noise or odor, abnormal or extended flaring activity or other internal event has occurred which may be visible or detectable by off-site people, but which presents **NO OFF-SITE THREAT** and requires no protective actions. The situation is under control.

- 3.3.2 CODE GREEN - An emergency such as a fire, explosion, gas or liquid release or other event has occurred which effects plant operations and/or has the potential to escalate to a more serious emergency. **THE SITUATION IS NOT UNDER CONTROL BUT POSES NO IMMEDIATE OFF-SITE THREAT.** The Washington County EOC may activate.
- 3.3.3 CODE YELLOW - A serious accident such as a fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or poses a threat to residents or industries in the immediate vicinity of the affected industry. **THE SITUATION IS NOT UNDER CONTROL AND ON-SITE PROTECTIVE ACTIONS WILL BE NECESSARY.** The Washington County EOC would activate.
- 3.3.4 CODE RED - A severe emergency such as fire, explosion, gas or liquid release or other event has occurred or is imminent which seriously affects plant operations and/or off-site areas well beyond site boundaries. **THE SITUATION IS NOT UNDER CONTROL AND PROTECTIVE ACTIONS FOR NEIGHBORING INDUSTRIES AND RESIDENTS ARE NECESSARY.** The Washington County EOC would fully activate at a safe location.
- 3.4 COMMAND AND CONTROL POSITION - The Shift Manager, Control Room Coordinator, Site Director, or Emergency Director currently charged with the authorities and responsibilities for directing the emergency response.
- 3.5 COMMERCIAL LINE - OPPD installed phone system, for interplant and normal outside phone communication.
- 3.6 COMMUNICATOR - The Communicator position associated with the Command and Control position in charge. For the Shift Manager and Control Room Coordinator, it is the Control Room Communicator. For the Site Director, it is the TSC COP Communicator. For the Emergency Director, it is the EOF COP Communicator
- 3.7 COP - "Conference Operations Network". The phone system installed to provide rapid state and county notifications.
- 3.8 EAGLE - OPPD computerized dose assessment system - "Emergency Assessment of Gaseous and Liquid Effluents".
- 3.9 EAS - "Emergency Alert System". The radio system providing announcements to the general public in the event of a nuclear or other public emergency.
- 3.10 ENS/FTS phone - NRC notification system phones, ENS - "Emergency Notification System", FTS - "Federal Telecommunications System".

3.11 ERDS - "Emergency Response Data System". The system that provides ERF data to the NRC Operations Center.

3.12 ERO - "Emergency Response Organization".

4. PREREQUISITES

None

5. PROCEDURE

5.1 Upon activation of your position, use the applicable checklist listed to complete required actions:

Attachment 6.1 - Control Room Notifications Checklist

Attachment 6.2 - TSC Notifications Checklist

Attachment 6.3 - EOF Notifications Checklist

5.2 Review the procedure and checklist, and accomplish the applicable steps upon initial activation and when required thereafter.

5.3 Maintain a log of notifications/other contacts made.

5.4 At the completion of the shift or at event termination, initial the steps which are completed.

5.5 Provide a detailed briefing to your shift relief of any actions taken and the current emergency and notification status.

5.6 Retain all documentation (logs, notes, etc.) generated or used during the emergency. At the termination, deliver all documentation to the Administrative Logistics Coordinator in the TSC and/or the Administrative Logistics Manager in the EOF.

5.7 IF the ERO was not activated, THEN contact the Emergency Planning Contact Person to pickup all documentation associated with the event.

6. ATTACHMENTS

6.1 Control Room Notifications Checklist

6.2 TSC Notifications Checklist

6.3 EOF Notifications Checklist

Attachment 6.1 - Control Room Notifications Checklist

Maintain a log of all key activities

✓ INITIALS

NOTE: Keys needed to unlock cabinets are in the lockbox on the cabinet doors. Keys to door 115 are in the lockboxes located near the door.

1. Obtain the "Emergency Planning Activation Instruction Booklet" from the Shift Manager.

 - 1.1 Don a position identification badge from the locker.

 - 1.2 Maintain a log of emergency activities.

2. Using the Emergency Planning Activation Instruction Booklet perform notifications as requested by the Shift Manager or Command and Control Position.

NOTE: In the event that the ERFCS is not available in the TSC or EOF, you may be called to obtain necessary information.

3. Have Control Room Data Collector collect requested data using:
 - FC-194

 - FC-197

 - FC-1336

 - 3.1 Provide data to the TSC or EOF.

4. IF forced evacuation of the Control Room is necessary, and the TSC is not activated, THEN:
 - 4.1 Follow the appropriate steps in the AOP's.

 - 4.2 Perform your duties as directed from the COP work station in the TSC.

Attachment 6.2 - TSC Notifications Checklist

Maintain a log of all key activities

- | | ✓ | <u>INITIALS</u> |
|--|---|-----------------|
| 1. Upon arrival: | | |
| 1.1 Sign in on Accountability Roster. | — | |
| 1.2 Put on position identification badge. | — | _____ |
| 2. Using the Emergency Planning Activation Instruction Booklet: | | |
| 2.1 Perform the actions and notification in this book as directed by the
Command and Control Position. | — | |
| | — | _____ |
|
NOTE: The Protective Measures Coordinator is your contact to obtain
status board information. | | |
| 3. Maintain the Radiological Status Board using data from Emergency
Notification Forms (FC-1188). [AR 13301] | | _____ |

Attachment 6.3 - EOF Notifications Checklist

Maintain a log of all key activities

✓ INITIALS

1. Upon arrival:

1.1 Sign in on Accountability Roster.

—

1.2 Put on position identification badge.

—

2. Using the Emergency Planning Activation Instruction Booklet:

2.1 Perform the actions and notifications in this book as directed by the
Command and Control Position.

—

—

3. Maintain the PAR Status Board.

—

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Fort Calhoun Station
Unit No. 1

EPIP-RR-90

EMERGENCY PLAN IMPLEMENTING PROCEDURE

Title: EOF/TSC CHP COMMUNICATOR ACTIONS

FC-68 Number: EC 25792

Reason for Change: Procedure developed to provide guidance for new ERO position.

Requestor: R. Hankins

Preparer: R. Hankins

ISSUED: 10-24-00 3:00 pm

R0

EOF/TSC CHP COMMUNICATOR ACTIONS

NON-SAFETY RELATED

1. PURPOSE

- 1.1 The purpose of this procedure is to provide guidance to the EOF and TSC CHP Communicators in performing actions in response to an emergency at Fort Calhoun Station.

2. REFERENCES/COMMITMENT DOCUMENTS

None

3. DEFINITIONS

None

4. PREREQUISITES

None

5. PROCEDURE

- 5.1 Review the procedure and checklist, Attachment 6.1 or 6.2, and accomplish the applicable steps both upon initial activation and periodically, as required, thereafter.
- 5.2 At the completion of the shift or at event termination, initial the steps that are completed.
- 5.3 Retain all documentation (logs, calculation sheets, notes, etc.) generated or used during the emergency. At event termination, deliver all documentation to the Administrative Logistics Manager/Coordinator in your facility.

6. ATTACHMENTS

- 6.1 EOF CHP Communicator Checklist
- 6.2 TSC CHP Communicator Checklist

Attachment 6.1 - EOF CHP Communicator Checklist

Maintain a log of all key activities

- | | ✓ | <u>INITIAL/DATE</u> |
|---|---|---------------------|
| 1. Obtain and put on Position Identification Badge. | — | |
| 2. Inform the EOF Protective Measures Manager of your arrival and position. | — | |
| 3. Test the cordless headset for operability. If the headset is not functional, contact the EOF Communications Specialist for assistance. | — | |
| 4. Maintain communication on the Conference Health Physics Network (CHP) by keeping the states/other CHP stations updated on protective measures/plant information, as requested or when directed by the EOF Protective Measures Manager. | — | |
| 5. Provide radiological information to the NRC using the Health Physics Network (HPN) as directed by the EOF Protective Measures Manager. | — | |
| 6. Provide a detailed briefing to oncoming shift relief of emergency conditions and status of any actions taken. | — | / |

Attachment 6.2 - TSC CHP Communicator Checklist

Maintain a log of all key activities

	✓	<u>INITIAL/DATE</u>
1. Obtain and put on Position Identification Badge.	—	
2. Inform the TSC Protective Measures Coordinator of your arrival and position.	—	
3. Test the cordless headset for operability. If the headset is not functional, contact the TSC Emergency Response Coordinator for assistance.	—	
4. Maintain communication on the Conference Health Physics Network (CHP) by keeping the states/other CHP stations updated on protective measures/plant information, as requested or when directed by the TSC Protective Measures Coordinator.	—	
5. Provide radiological information to the NRC using the Health Physics Network (HPN) as directed by the TSC Protective Measures Coordinator.	—	
6. Provide a detailed briefing to oncoming shift relief of emergency conditions and status of any actions taken.	—	— / —