



May 16, 2000  
LIC-00-0052

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 Fort Calhoun Station Emergency Plan Procedures (EPIP) and Emergency Planning Forms (EPF) Manuals**

In accordance with 10 CFR 50 Appendix E Part V and 10 CFR 50.4(b)(5)(iii), please find an EPIP change package enclosed for the Document Control Desk (holder of Copy 165) and three (3) sets for the NRC Emergency Response Coordinator (holder of Copies 154, 155, and 156).

The document update instructions and summary of changes are included on the Confirmation of Transmittal (Form EP-1) attached to each controlled copy change package. Please return the Confirmation of Transmittal forms by July 4, 2000.

The revised documents included in the enclosed packages are:

EPIP Index, page 1 of 2, issued 05/04/00  
EPIP-EOF-6 R28a, issued 02/29/00 (insert cover page and pages 13-14)  
FC-EPF Index, page 1 of 2, issued 05/04/00  
FC-EPF-8 R5a, issued 08/10/95  
FC-EPF-10 R13, issued 05/04/00


Please note that FC-EPF-10 contains proprietary information which may not be released to the Public Document Room. (Proprietary information includes personnel names, company numbers, and any information which could impede emergency response.) These issues may only be used for internal NRC copies of the Fort Calhoun Station Emergency Response Planning documents. A censored version of this document has been provided for the Public Document Room.

LIC-00-0052

Page 2

Please contact me if you have any questions regarding the enclosed changes.

Sincerely,

A handwritten signature in black ink, appearing to read 'S. K. Gambhir', with a long horizontal stroke extending to the right.

S. K. Gambhir  
Division Manager  
Nuclear Operations

SKG/jmh

Enclosures

- c:     T. H. Andrews, Emergency Response Coordinator (3 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)

OMAHA PUBLIC POWER DISTRICT

Confirmation of Transmittal for  
Emergency Planning Documents/Information

<input type="checkbox"/> Radiological Emergency Response Plan (RERP)	<input checked="" type="checkbox"/> Emergency Plan Implementing Procedures (EPIP)	<input checked="" type="checkbox"/> Emergency Planning Forms (EPF)
<input type="checkbox"/> Emergency Planning Department Manual (EPDM)	<input type="checkbox"/> Other Emergency Planning Document(s)/ Information	

Transmitted to:

Name: Document Control Desk Copy No: 165  
Tom Andrews Copy No: 154  
Tom Andrews Copy No: 155  
Tom Andrews Copy No: 156

Date: 5-16-00

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

REMOVE SECTION

EPIP Index page 1 of 2 issued 03/31/00  
EPIP-EOF-6 R28 issued 02/29/00 remove cover & pages 13-14  
FC-EPF Index page 1 of 2 issued 01/20/00  
FC-EPF-8 R5 issued 08/10/95  
FC-EPF-10 R12 issued 08/05/99

INSERT SECTION

EPIP Index page 1 of 2 issued 05/04/00  
EPIP-EOF-6 R28a issued 02/29/00 insert cover & pages 13-14  
FC-EPF Index page 1 of 2 issued 05/04/00  
FC-EPF-8 R5a issued 08/10/95  
FC-EPF-10 R13 issued 05/04/00

**Summary of Changes:**

EPIP-EOF-6 pages 13 and 14 were reissued to correct a documentable error.  
FC-EPF-8 was revised to correct a documentable error.  
FC-EPF-10 was revised to remove the Chemistry Liaison & Dose Assessment Coordinator 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 07/04/00 to:

Karma Boone  
Fort Calhoun Station, FC-2-1  
Omaha Public Power District  
444 South 16<sup>th</sup> 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: \_\_\_\_\_

**EMERGENCY PLAN IMPLEMENTING PROCEDURE INDEX**

<u>PROCEDURE NUMBER</u>	<u>TITLE</u>	<u>REVISION/DATE</u>
EPIP-OSC-1	Emergency Classification	R32 07-29-99
EPIP-OSC-2	Command and Control Position Actions/Notifications	R35 03-31-00
EPIP-OSC-9	Emergency Team Briefings	R7 12-09-99
EPIP-OSC-15	Communicator Actions	R20 03-31-00
EPIP-OSC-20	Site Population Exposure Estimates	R6 11-10-95
EPIP-OSC-21	Activation of the Operations Support Center	R8 09-30-97
EPIP-TSC-1	Activation of the Technical Support Center	R20 10-08-99
EPIP-TSC-2	Catastrophic Flooding Preparations	(R0 03-22-95) DELETED 05-09-95 <b>REINSTATED</b> R2 02-06-96
EPIP-TSC-8	Core Damage Assessment	R13 01-19-00
EPIP-EOF-1	Activation of the Emergency Operations Facility	R11 09-23-99b
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

Fort Calhoun Station  
Unit No. 1

Distribution Authorized

This procedure does not contain any proprietary information, or such information has been censored. This issue may be released to the public document room. Proprietary information includes personnel names, company phone numbers, and any information which could impede emergency response.

**EPIP-EOF-6**

**EMERGENCY PLAN IMPLEMENTING PROCEDURE**

**Title:** DOSE ASSESSMENT

---

FC-68 Number: 53200

Reason for Change: Reformat, Change reference to "TSC Dose Assessment Coord." to "TSC Protective Measures Coordinator." Add instruction for using Okidata fax machine in the Control Room, change definition of Imminent Release. Change CID number to AR number.

Initiator: M. Reller

Preparer: M. Reller

Documentable Error (a): Page 13 (05-04-00)

Attachment 6.4  
(Continued)

Page 4 of 7

- 2.1.10 At Summary of Source Release Rates screen, another release path may be selected (which will sum release rates from all release paths), or, if there are no other release paths, press "y" to accept.

## 2.2 Entering Meteorological Data

**NOTE:** When performing assessments, use the most positive  $\Delta T$  and the slowest wind speed.

- 2.2.1 At Summary of Meteorological Parameters, all new meteorological data may be entered, or selected parameters may be entered.

- 2.2.2 When all meteorological data is entered, press "y" to accept.

## 2.3 Release/Dose Information Preparation

- 2.3.1 At EAGLE Output menu, select "1" for Release/Dose Assessment Information.
- 2.3.2 At Update Report to Offsite Authorities screen, press <ENTER>.
- 2.3.3 At Release Information Menu, select "1", Distribute Release Information.
- 2.3.4 At Model Output Control Menu, change distribution to distribute ONLY to your printer.
- 2.3.5 When distribution is set, press "y" to accept.
- 2.3.6 At EAGLE Dose Assessment Information screen, press <ENTER>.
- 2.3.7 At Computer Generated Protective Action Recommendations screen, press <ENTER>.
- 2.3.8 At Authorization Page/Par Menu, select "2", Do NOT Distribute Authorization Page and Computer Generated PARs.
- 2.3.9 At Emergency Classification screen, select desired emergency classification as determined by the Command and Control position and press "y" to accept.
- 2.3.10 At Prognosis of Emergency screen, select desired emergency prognosis as determined by the Command and Control position and press "y" to accept.

Attachment 6.4  
(Continued)

Page 5 of 7

- 2.3.11 At Protective Action Recommendations screen, do not enter any PARs, but press "y" to accept.
- 2.3.12 At Comment screen, enter any necessary comments and press "y" to accept.
- 2.3.13 At Review/Approval screen, do not enter any names, but press "y" to accept.
- 2.3.14 At Dose Assessment/PAR Summary screen, press <ENTER>.
- 2.3.15 At Dose Assessment/PAR Menu, select "1", Distribute Dose Assessment/PARs.
- 2.3.16 At Model Output Control Menu, change distribution to distribute ONLY to your printer.
- 2.3.17 When distribution is set, press "y" to accept.

2.4 Final Review, Approval and Distribution

- 2.4.1 Perform this function as described in the Attachment specific to your facility.

2.5 Follow-up Actions

- 2.5.1 At the EAGLE Output Menu, you may reenter data for the current plume segment if necessary, proceed to the next plume segment, or exit the program.
- 2.5.2 When transferring assessment to another facility, exit the program as directed so that the other facility may assume dose assessment functions.

3. Imminent Release Assessment

3.1 Entering Radiological Data

- 3.1.1 At EAGLE Main Menu screen, enter "1" to perform Atmospheric Diffusion and Dose Calculations.
- 3.1.2 At Model Control Options Menu, enter "I" to change status to "Execute Imminent Release Option" and press "y" to accept.
- 3.1.3 At Containment Imminent Release screen, change time to release, flow and radiological parameters as necessary, and press "y" to accept.

**EMERGENCY PLAN FORMS INDEX**  
**FC-EPF****PROCEDURE**

<u>NUMBER</u>	<u>TITLE</u>	<u>REVISION/DATE</u>
FC-EPF-1	Alert Notification System Accidental Activation Report Form	R5 08-13-96b
FC-EPF-2	Offsite Monitoring Log	R2 08-10-95
FC-EPF-3	Administration of Potassium Iodide Tablets	R0 11-01-90
FC-EPF-4	Radiological Emergency Team Briefing Checklist	R2 12-13-94
<b>NCR</b>		
FC-EPF-5	Emergency Worker Extension	R3 03-26-98
FC-EPF-6	Estimated Exposure Worksheet	R3 09-12-97
FC-EPF-7	Estimated Exposure Log	R2 04-01-98
FC-EPF-8	Sample Worksheet	R5 08-10-95a
FC-EPF-9	OSC 24-Hour Staffing Schedule	R11 08-05-99
FC-EPF-10	CR/TSC 24-Hour Staffing Schedule	R13 05-04-00
FC-EPF-11	EOF 24-Hour Staffing Schedule	R9 08-05-99
FC-EPF-12	MRC 24 Hour Staffing Schedule	R2 08-05-99
FC-EPF-13	Emergency Response Organization Log Sheet	R0 01-17-91
FC-EPF-14	Emergency Response Organization Assignment Form	R8 02-02-99
FC-EPF-15	Drill Exercise Comment Form	R3 07-11-97a
FC-EPF-17	Pager Response Follow Up Questionnaire	R3 11-06-99
FC-EPF-19	Process and Area Monitor Locations	R6 09-01-94
FC-EPF-20	Site Boundary/Owner Control Area	R1 07-29-97



**Distribution Authorized**

This procedure does not contain any proprietary information, or such information has been censored. This issue may be released to the public document room. Proprietary information includes personnel names, company phone numbers, and any information which could impede emergency response.

SAMPLE WORKSHEET

1. Counting Samples Using the ESP-2

- A. Smear Activity: Use 100cm<sup>2</sup> smear. Use GM pancake probe, ESP-2 set on "Gross" position.

$$\frac{\text{spl}}{\text{cpm}} - \frac{\text{bkg}}{\text{cpm}} = \frac{\text{net}}{\text{cpm}} \times \frac{10}{\text{E.F.}} = \frac{\text{dpm/100cm}^2}{\text{activity}}$$

- B. Particulate Activity: Use GM pancake probe, ESP-2 set on "Gross" position.

$$\frac{\text{spl}}{\text{cpm}} - \frac{\text{bkg}}{\text{cpm}} = \frac{\text{ncpm}}{\text{cpm}} \times \frac{1.59\text{E-}10}{(\text{ft}^3)} = \frac{\text{activity}}{\text{activity}}$$

- C. Iodine Activity: Wrap cartridge in plastic. Place cartridge in shielded holder, collected side up. ESP-2 set on "PHA".

$$\frac{\text{spl}}{\text{dpm}} - \frac{\text{bkg}}{\text{dpm}} = \frac{\text{net}}{\text{dpm}} \times \frac{1.59\text{E-}11}{(\text{ft}^3)} = \frac{\text{activity}}{\text{activity}}$$

**NOTE:** Turn off meter prior to changing any detector.

**NOTE:** If sample counts are less than or equal to background counts, report results as "background".

2. Counting Samples Using the Frisker

- A. Smear Activity: Use 100cm<sup>2</sup> smear. Use GM pancake probe. Use only slow response mode.

$$\frac{\text{spl}}{\text{cpm}} - \frac{\text{bkg}}{\text{cpm}} = \frac{\text{net}}{\text{cpm}} \times \frac{10}{\text{E.F.}} = \frac{\text{dpm/100cm}^2}{\text{activity}}$$

- B. Particulate Activity: Use GM pancake probe. Use only slow response mode.

$$\frac{\text{spl}}{\text{cpm}} - \frac{\text{bkg}}{\text{cpm}} = \frac{\text{ncpm}}{\text{cpm}} \times \frac{1.59\text{E-}10}{(\text{ft}^3)} = \frac{\text{activity}}{\text{activity}}$$

**NOTE:** If sample counts are less than or equal to background counts, report results as "background".

**Distribution Authorized**

This procedure does not contain any proprietary information, or such information has been censored. This issue may be released to the public document room. Proprietary information includes personnel names, company phone numbers, and any information which could impede emergency response.

CR/TSC 24-HOUR STAFFING SCHEDULE			
DATE:	24-HOUR SCHEDULE		
TIME:	SHIFT 1	SHIFT 2	OPTIONAL
SHIFT TIMES:			

CHECK  
WHEN  
NOTIFIED

SECTION 1

Site Director				
Operations Liaison				
EP Specialist				
Reactor Safety Coord.				
Protective Meas. Coord.				

SECTION 2

Admin. Logistics Coord.				
Administrative Assistant				
C.R. Accountability Clerk				
C.R. Coordinator				
C.R. Data Collector				
C.R. Dose Assess. Specialist				
C.R. ENS Communicator				
C.R. Ops Liaison				
Elec/I&C Systems Engineer				
Elec/I&C Systems Engineer				
Field Team Driver, Blue				
Field Team Driver, Red				
Field Team Technician, Blue				
Field Team Technician, Red				
Medical Responder				
Primary Sys. Engineer				
Reactor Engineer				
SD Secretary				
SD Secretary				
Secondary Sys. Engineer				
Security Coordinator				
Status Board Keeper				
TSC Director				

NOTE: The expectation is to have a 24-hour schedule developed within 1 hour AFTER the center is declared OPERATIONAL for the 1<sup>st</sup> shift and within 6 hours for the 2nd shift.