Controlled Procedure Set No._____ November 19, 1981

Assigned to: H.R. Denton - NRC Washing Ton

Attached is a revision to procedure EOF-3. Please complete the following steps:

- A. Remove the Corporate Command Center (CCC) and Emergency Operating Facility (EOF) Emergency Plan Implementing Procedures Table of Contents page 2, dated October 9, 1981 and destroy.
- B. Insert new Table of Contents page 2, dated November 19, 1981.
- C. Remove and destroy old procedure EOF-3, dated December 1980, Revision 1.
- D. Insert new procedure EOF-3, dated September 1981, Revision 2.
- E. In order to acknowledge receipt of this revision, please SIGN, DATE and RETURN this sheet to:

Vernon L. Chaney Commonwealth Edison Company 72 West Adams Street Room 1248 Chicago, Illinois 60690

einon L.

Vernon L. Chaney (312) 294-8549

Signature:

Date:

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November 19, 1981

Table of Contents (Continued...)

Number	Title
CC-11 (Rev. 2, Nov. 1980)	The Engineering Director
CC-12 (Rev. 6, Jan. 1981)	The System Power Dispatcher
CC-13 (Rev. 0, Jan 1981)	The Exercise and Drill Program
CC-14 (Rev. 0, Jan. 1981)	Offsite Communications Capabilities
CC-15 (Rev. 0, Jan. 1981)	The Division Director
EOF-1 (Rev. 2, Aug. 1981)	The Recovery Manager
EOF-2 (Rev. 1, Dec. 1980)	The Technical Support Manager
EOF-3 (Rev. 2, Sept. 1981)	The Environmental/Emergency Coordinator
EOF-4 (Rev. 1, Dec. 1980)	The Emergency News Center Director
EOF-5 (Rev. 1, Dec. 1980)	The Design and Construction Support Manager
EOF-6 (Rev. 1, Dec. 1980)	The Administration and Logistics Manager
EOF-7 (Rev. 1, Dec. 1980)	The Scheduling/Planning Manager
EOF-8 (Rev. 2, Dec. 1980)	The Waste Systems Padiation Control Manager
EOF-9 (Rev. 0, Feb. 1981)	Recovery Operations
EOF-10 (Rev. 0, Feb. 1981)	The Advisory Support Director
EOF-11 (Rev. 0, Jan. 1981)	Training Director



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GSEP CORPORATE COMMAND CENTER EMEGENCY PLAN IMPLEMENTING PROCEDURE

EPIP: EOF-3

Title: The Environmental/Emergency Coordinator

_Date: 10-22-8! Prepared by: Date: 11-7-81 lin Reviewed by: Frankle Valuer Date: 11-9-81 Approved by:____

#4814A

ENVIRONMENTAL/EMERGENCY COORDINATOR

A. PURPOSE:

The purpose of this procedure is to assist the Environmental/Emergency Coordinator in fulfilling the responsibilities assigned in the GSEP.

B. REFERENCES:

 The Generating Stations' Emergency Plan and Telephone Directory.

 The GSEP Environmental Director Emergency Plan Implementing Procedures.

3. The Environ: Group Procedures.

C. PREREQUISITES:

- The Environmental/Emergency Coordinator will designate an individual to fulfill the duties of Environmental Director at the CCC.
- D. PRECAUTIONS:

1. None.

E. LIMITATIONS AND ACTIONS:

1. None.

- F. PROCEDURE:
 - Responsibilities The Environmental/Emergency Coordinator is responsible for
 coordinating and managing the activities associated with
 radiological consequence assessment, for operating the
 Emergency Control Center at the Nearsite EOF and for
 serving as the official contact with State and Federal
 radiological assessment personnel.
 Duties
 - 2. Duties
 - a. Direct a staff to include a communicator to the Corporate Command Center; a communicator to Illinois and Iowa or Wisconsin agencies; and a computer systems representative.
 - b. Establish communications with the Corporate Environmental Center, the Onsite TSC, and/or the Nearsite EOF Recovery Center and obtain information on the accident conditions, meteorological conditions, and estimates of radioactive material releases.

- Duties (Continued...)
 - c. Establish communications with offsite authorities, especially the Department of Nuclear Safety RAFT (located near the site) and REAC (Springfield) facilities, and relay information necessary for the respective authorities to implement their emergency plans.
 - d. Coordinate the activities of the Environs Director (nearsite) and the Environmental Director at the CCC. Coordinate the activities of environmental contractors.
 - e. Make sure the Environs Director has established communication with Illinois DNS Rapid Assistance Team (RAT) if a team was dispatched. Provide vehicle (and drivers with appropriate protective equipment and personnel dosimetry) if requested by DNS to support State field activities.
 - f. Interpret radiological data and periodically update the Onsite TSC, Recovery Center, and offsite authorities of real time measurements and projected radiological exposure. Update the appropriate state authorities at 15-minute intervals or as soon as possible when field conditions are reported to have changed significantly.
 - Direct the information to be relayed to a staff communicator whose primary duty is to update the state agencies.
 - Provide a phone which can be used primarily by the communicator to update the states.
 - g. Based upon calculated dose projections, make recommendations for protective actions offsite consistent with Checklists 1,2, and 3 of this procedure.
 - h. Establish a schedule of personnel assignments for all environmental and offsite health physics positions. If 24-hour shift coverage is required, refer to Attachement E which is a suggested shift manning schedule for four or five person rotation. Use of the schedule is optional.
 - Maintain a record of the GSEP related activities. Refer to Attacchment D.

CHECKLISTS:

G.

- Attachment A GSEP Guidelines for Recommended Offsite Protective Actions for Gaseous Plume Exposure (Table 6.3-1 of the GSEP).
- Attachment B GSEP Guidelines for Protection Against Ingestion of Contamination for the Offsite Public (Table 6.3-2 of the GSEP).

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CHECKLISTS: (Continued..)

- Attachment C Summary of Possible Offsite Protective Actions to be Recommended or Implemented During an Emergency (Table 6.3-3 of the GSEP).
- Attachment D Environmental/Emergency Coordinator's Checklist.
- 5. Attachment E Schedule for Recovery Group Shift Manning.
- Figure 1 Environmental Organization.

H. TECHNICAL SPECIFICATION REFERENCES:

1. None.

G.

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SUGGESTED REVISION TO GSEP Die 6.3-1 f 21



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Recommended Protective Actions For Gaseous Release

Accident Classification	Release Situation (NARS Form Section 6))	ir Wi	Project a Zona hole l	Actua cted D al Are Body	al Joses (Nem Pas X, Y, T	s Z.	id	Containment Radiation Level (R/Hr) When no Projected Domes are Available	Recommended (S-Shelto P - Prej action,	Protec, I	tective Ac E-Evacuati for Possi info on	tions on, ble ly)	N	ARS Form ection 8
			^		6	^		-		X	Y	Z			
1. Unusual Event	6.A - No Release	(1)	0	0	0	0	0	0	NORMAL CONTAINMENT RAD.		1.0.			11	
	6.8 or E - Potential	(2)	₹0.5	M	м	< 2.5	M	M	< 200		1.0.			2)	8.A
	or Stopped						76.							-	
	or Occuri	ring	<0.5	M	м	<2.5	м	м	< 200		1,0,		(3)	8.A
2. Alert	6.A - No Release	(1)	0	0	0	0	0	0	NORMAL CONTAINMENT RAD.		1.0.			1)	
	6.B or E - Potential or Stopped	(2)	≪0.5	M	M	\$2.5	м	м	< 200	1	1.0.		i	2)	8.A
		(3)	<1.0	<0.5	M	25.0	<2.5	M	200 - 400	(P)	P	P)	1	31	8.8
	6.C or D - Imminent or Occurrin	(4)		Anal	lysis	Not Compl	ete		₹ 200		1.0.		(4	8.8
		(5)		Anal	ysis	Not Compl	ete		200 - 400	(P)	P)	P)	(5)	8.B
		(6)	∠1.0.	¢0.5	м	<5.0	42.5	M	학생님은 아이는 것	(P)	P)	P)	(6)	8.B
3. Site Emergency	6.A - No Release	(1)	0	0	0	0	0	0	NORMAL CONTAINMENT RAD.	(P)	P)	P)	(1)	8.8
	6.B or E - Potential or Stopped	(2)	Ai	1 Dos	lons	A1 S1	1 Dos tuati	se lons	< 2000	(P)	P)	P)	î	2)	0.B
	6.C or D - Imminent or Occurring	(3)		Anal	ysis	Not Comp1	ete		≪400	(P)	P)	P)	(3)	8.8
		(4)		Anal	ysis	Not Compl	ete		400 - 2000	(S)	P)	P)	(4	4)	8.C.D
		(5)	∉1.0	< 0.5	M	<5.0 <	2.5	м		(P)	P)	P)	(5)	8.B
		(6)	>1.0	< 1.0	м	>5.0 4	\$5.0	м		(E*)	S*)	P)	()	6)	8.C.H.E
		(7)	71.0	>1.0	<1.0	>5.0 >	5.0,	< 5.0		(E*)	E*)	S)	C	7)	8.C.H.I.6P

Foot Notes:

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The symbol ()) represents the entire 0-2 mile area, and the 2-5 and 5-10 mile three downwind sectors.

R- Range (Miles)

SB-Site Boundary

M- Minimal

- * Evacuation, when noted, is the recommended protective action only when weather conditions permit and an evacuation time analysis confirms it as the preferred choice, otherwise sheltering is the protective action to recommend. If evacuation is recommended for zonal areas Y and Z and if Zonal areas Y and Z are in Wisconsin or Towa, then the recommendation for evacuation should extend only to the range at which the projected dose is 1 Rem WB or 5 Rem thyroid, whichever is the greater range. Sheltering is the protective action from this range out to 5 miles if the "range" is in Zone Y and out to 10 miles if it is in Zone Z..
- ** Projected actual doses are based on the actual or most likely release point and the existing site meteorological conditions. The zones X,Y, and Z are: X- SB ≤ R < 2 Miles; Y- 2 ≤ R < 5 Miles; Z- 5 ≤ R < 10 Miles.</p>

SUGGESTED REVISION TO GSEP Table 6.3-1 (2)



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Recommended Protective Actions For Gaseous Release

Accident Classification (N	Release Situation MRS Form Section 6)	Actual Projected Do in Zonal Area Whole Body X Y Z	ses (Rem)** s X, Y, 6 Z. Thyroid X Y Z	Containment Radiation Level (R/Hr) When no Projected Doses are Available	Recommended Protective Action (S-Shelter, E-Evacuation, P - Prepare for Possible action, I.O info only) X Y Z	SI	ection 8
4. General 6.A Emergency 6.B	- No Release (or E - Potential or Stopped	1) NOT APPLICABLE	TO GENERAL EMERG All Dose Situations	SENCY >0	(S) S) P)	(2)	8.C,D & E
6.0	or D - Imminant (or occurring	(3) Analysis not co (4) $\leq 1.0 \leq 0.5$ M	<pre>mplete <.5.0 < 2.5 M</pre>	≫	(5) 5) P)	(3) (4)	8.C,H & E
		(5) > 1.0 < 1.0 M (6) > 1.0 > 1.0 < 1.0	>5.0<5.0 M	,	(E*) S) P) (E*) E*) S)	(5)	8.C,H & K 8.C,H,14F
		(7) >1.0 >1.0 >1.0	>5.0 > 5.0 > 5.0		(E*) E*) E*)	(7)	8.C,H,I 4J

R- Range (Miles)

SB-Site Boundary M- Minimal

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- Evacuation, when noted, is the recommended protective action only when weather conditions permit and an evacuation time analysis confirms it as the preferred choice, otherwise sheltering is the protective action to recommend. If evacuation is recommended for zonal areas Y and Z and if Zonal areas D . Y and Z are in Wisconsin or Iowa, then the recommendation for evacuation should extend only to the range at which the projected dose is 1 Rem WB or 5 Rem thyroid, whichever is the greater range. Sheltering is the protective action from this range out to 5 miles if the "range" is in Zone Y and out to 10 miles if it is in Zone Z ...
- ** Projected actual doses are based on the actual or most likely release point and the existing site meteorological conditions. The zones X,Y, and Z are: X- SB & R < 2 Miles; Y- 2 & R & 5 Miles; Z- 5 & R & 10 Miles.



TABLE 6.3-2 GSEP GUIDELINES FOR PROTECTION AGAINST INGESTION OF CONTAMINATION FOR THE OFFSITE PUBLIC

FOOD AND WATER CONTAMINATION

A. Derived Response Levels

			Preventive Action Levels*	rentive Action Levels*			
Nuclide**	Critical Organ	Milk/Water***	Total Intake via All Food and Water Pathways	Pasture Grass (Fresh weight)			
1-131	Thyroid	0.012 uC1/1	0.09 uC1	0.27 uCi/kg			
Cs-137	Whole Body	0.34 uC1/1	7 uCi	3.5 uC1/kg			
Sr-90	Bone	0.007 uC1/1	0.2 uCi	0.7 uC1/kg			
Sr-89	Bone	0.13 uC1/1	2.6 uC1	13 uC1/kg			

*The preventive derived response action levels relate to a 1.5 rem projected dose commitment to the thyroid or to a 0.5 rem projected dose commitment to the whole body, bone, or any other organ. <u>Emergency action</u> <u>levels</u> are equal to ten (10) times the preventive levels and relate to either a 15 rem projected dose commitment to the thyroid or a 5 rem projected dose commitment to the whole body, bone, or any other organ. **If other nuclides are present, use Regulatory Guide 1.109 to calculate the dose commitment to the critical organ(s). Infants are considered to be the critical segment of the population.

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Recommended Protective Actions

Preventive Level Exceeded

- For pasture; remove lactating dairy cows from contaminated pasturage and substitute uncontaminated stored feed. Also, a substitute source of uncontaminated water.
- For milk; withhold milk from market to allow radioactive decay. Consider diversion of fluid milk for production of butter or evaporated milk.
- For fruits and vegetables; wash, brush, or scrub to remove contamination. Allow radioactive decay through canning, dehydration, or storage.
- · For grains; mill and polish.

Emergency Level Exceeded

 Isolate food containing radioactive contamination to prevent its introduction into commerce and determine whether condemnation or another disposition is appropriate. Before taking this action, consider:

--Availability of other possible actions; --Importance of particular foods in nutrition; and

-- Time and effort required to take action.

***The preventive action levels apply to water as well as milk; the protective action for water would be to use a suitable source of uncontaminated water. to

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TABLE 6.3-3 SUMMARY OF POSSIBLE OFFSITE PROTECTIVE ACTIONS TO BE RECOMMENDED OR IMPLEMENTED DURING AN EMERGENCY⁺

ACCIDENT PHASE	EXPOSURE PATHWAY	EXAMPLES OF ACTION TO BE RECOMMENDED			
1 EMERGENCY PHASE	Inhalation of gases, radioiodine, or particulate	Evacuation, shelter, access control, respiratory protection, prophylaxis (thyroid protection)			
(0.5 to 30 hours)*	Direct whole body exposure	Evacuation, shelter, access control			
	Ingestion of milk	Take cows off pasture, prevent cows from drinking surface water, discard contaminated milk, or divert to stored products such as cheese			
² INTERMEDIATE PHASE	Ingestion of fruits and vegetables	Wash all produce, or impound produce, delay harvest until approved, substitute uncontaminated produce			
(30 hours to 30 days)*	Ingestion of water	Cut off contaminated supplies, substitute from other sources, filter, demineralize			
	Whole body exposure and inhalation	Relocation, decontamination, access control			
³ LONG TERM PHASE (over 30 days)*	Ingestion of food and water contaminated from the soil either by resuspension or uptake through roots	Decontamination, condemnation, or destruction of food; deep plowing, condemnation, or alternate use of land			
	Whole body exposure from deposition material or inhalation of resuspended material	Relocation, access control, decontamination, fixing of contamination, deep plowing			

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1 Emergency phase - Time period of major release and subsequent plume exposure.

²Intermediate phase - Time period of moderate continuous releases with plume exposure and contamination of environment.

³Long Term Phase - Recovery period.

*"Typical" Post-accident time periods.

*Reference: USEPA "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," 1975.

EOF-3 REV. 2 Scpt. 1481

ATTACHMENT D

Environmental/Emergency Coordinator's Checklist

This checklist is for the convenience of the Environmental/Emergency Coordinator. It is not necessary to adhere to the checklist item-by-item. It may serve as an aid for recording information during the recovery operation.

> Reported to Recovery Manager and assumed control of the Emergency Control Center at Nearsite EOF at:

Date:	
Time:	

 Established communication with the CCC Environmental Director at:

Date:	
Time:	

3. Established communication with the Environs Director at:

Date	:	
Time		

4. Established communications with offsite authorities at:

Agency Name

Date/Name Contacted

RAFT

DOE

5. General notes on Recovery Activities:





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Figure 1

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