

CLINTON POWER STATION
NUCLEAR STATION ENGINEERING DEPT.
Controlled Document Transmittal

Transmittal No. 01P0174 Transmittal Date 08/15/01 Sheet 1 of

Letter No. _____ Document EMERGENCY PLAN IMPLEMENTING PROCEDURE

The attached documents are being transmitted for your use.

27.	CPS/RL	V-455	183.	CPS/JPIC	V-922
56.	SDC/NRC OFFICE	V-130A		C/o A. Oleson	
64.	CPS/TSC	T-31B	493.	CPS/EOF	V-922
64A.	CPS/TSC	T-31B	493A(740).	CPS/EOF	V-922
64B.	CPS/TSC	T-31B	493B(741).	CPS/EOF	V-922
90.	MIKE KIEL	V-130G	493C(742).	CPS/EOF	V-922
110.	SUPV - CHEMISTRY	T-31C	493D(743).	CPS/EOF	V-922
179.	CPS/OPS	T-31B	493F(744).	CPS/EOF	V-922
202.	NTD/SIMULATOR	V-922	493G(745).	CPS/EOF	V-922
202C(673).	SIMULATOR	V-922	493H(746).	CPS/EOF	V-922
255B(698).	DOSIMETRY OFFICE	T-31H			
262A(69A)	MCR/HORSESHOE	T-31B	76.	D. V. PICKETT	OS
262C(69C)	SHIFT SUPERVISOR	T-31B	222/(679)	C. SANGSTER	OS
262D(69D)	REMOTE SHUTDOWN	T-31B	223.	U.S. NRC	
273.	TRAINING REQUAL	V-922		DOC. CONTROL DESK	OS
273A(708).	TRAINING REQUAL	V-922	225/(680).	IDNS (M. SINCLAIR)	OS
467.	MEDICAL	V-374B	234.	STATE EOC	OS
505.	EMERGENCY PLANNING	V-922	235.	M. STRAIN	OS
542.	CAS	T-31M		(DEWITT CO. ESDA)	
544.	SAS	T-31M	238.	D. POWELL (IDNS)	OS
3.	CPS/BEOF	V-150	567.	J. FAIROW	OS
3A.	CPS/BEOF	V-150		(RADIOLOGICAL EP MANAGER)	

SEE PAGE 2 FOR UPDATING INSTRUCTIONS

Please acknowledge receipt of the attached documents and return this signed transmittal to DOCUMENT CONTROL, V-150. **NOTE: RETAIN A COPY OF THIS TRANSMITTAL FOR UPDATING INSTRUCTIONS, AS NEEDED.**

Any questions regarding this transmittal should be forwarded to L. Hegger, extension 4087.

Signature/Date

A045

**PLEASE NOTICE THAT THE NUMBERS IN BRACKETS () ARE YOUR
NEW PASSPORT CONTROL COPY NUMBERS**

REMOVE/DESTROY:

EPIP Status Report
EPIP AP-05, Rev. 10
EPIP EC-01 Form 1, Rev. 4
EPIP EC-07, Rev. 11
EPIP FE-02, Rev. 6, pages 2 of 5, Att. Page 1
EPIP PR-01 Form 5, Rev. 2
EPIP RA-02, Rev. 4

INSERT:

Same, dtd. 08/10/01
Same, Rev. 11
Same Form Rev. 5
Same, Rev. 12
Same pages (Noting ACN 7/2)
N/A (Canceled)
Same, Rev. 5

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>ADMINISTRATIVE PROCEDURE (AP)</u>					
AP-01	ORGANIZATION & PREPARATION OF CONTROLLED DOCUMENTS	7	05/16/01	n/a	
AP-02	REVISIONS AND ADVANCE CHANGE NOTICES	16	07/03/01	n/a	
AP-03	EMERGENCY RECORDS RETENTION	4	01/12/96	5/1	02/03/99
AP-04	PREPARATION & CONDUCT OF EMERGENCY DRILLS & EXERCISES	5	08/03/99	n/a	
AP-05	EMERGENCY PREPAREDNESS TRAINING PROGRAM	11	08/03/01	n/a	
AP-06	REVIEW OF EMERGENCY PREPAREDNESS PROGRAM	5	12/20/99	6/1	04/14/00
AP-07	ALERT AND NOTIFICATION SYSTEM	8	06/15/01	n/a	
AP-09	EMERGENCY FACILITY AND EQUIPMENT CHECKS	7	05/16/01	n/a	
AP-10	EMERGENCY RESPONSE ORGANIZATION ASSIGNMENTS	8	01/24/00	n/a	

DOCUMENT CONTROL

AUG 15 2001

223
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CLINTON POWER STATION

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 2 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>EMERGENCY CONTROL (EC)</u>					
EC-01	CPS EMERGENCY RESPONSE ORGANIZATION & STAFFING	7	04/11/01	n/a	
F-01	Interim Station Emergency Director	5	08/02/01	n/a	
F-02	Station Emergency Director (SED)	5	06/15/01	n/a	
F-03	SED Administrative Support	2	06/15/01	n/a	
F-04	TSC Administrative Supervisor	3	04/11/01	n/a	
F-05	Technical Assessment Supervisor	1	04/21/99	n/a	
F-06	Emergency Operations Supervisor	1	04/21/99	n/a	
F-07	TSC Radiological Supervisor	0	07/28/92	n/a	
F-08	OSC Supervisor	1	08/26/99	n/a	
F-09	Station Security Coordinator	0	07/28/92	n/a	
F-10	TSC Communicator	3	02/24/00	n/a	
F-11	TSC Records Management Coordinator	0	07/28/92	n/a	
F-12	TSC Electrical Engineer	1	04/21/99	n/a	
F-13	TSC Reactor Engineer	1	04/21/99	n/a	
F-14	TSC Chemist-Nuclear	2	04/21/99	n/a	
F-15	Operations Coordinator	1	04/21/99	n/a	
F-16	TSC Computer Operator	5	02/28/00	n/a	

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-17	Radiological Engineering Specialist	1	11/23/93	n/a	
F-19	RP (TSC) Communicator	0	07/28/92	n/a	
F-20	Status Board Keepers	0	07/28/92	n/a	
F-21	Radiological Controls Supervisor	0	07/28/92	1/1	06/29/00
F-22	In-station Emergency Teams	0	07/28/92	n/a	
F-23	OSC Radiological Controls Coordinator	1	04/11/01	n/a	
F-24	Assistant OSC Radiological Controls Coordinator	0	07/28/92	n/a	
F-25	RP (OSC) Communicator	0	07/28/92	n/a	
F-26	Emergency Team Coordinator	1	10/18/93	n/a	
F-28	Emergency Manager	3	06/15/01	n/a	
F-30	EOF Director	3	03/05/97	n/a	
F-31	Executive Administrative Support	2	06/15/01	n/a	
F-32	Licensing Advisor	0	07/28/92	n/a	
F-33	EOF Emergency Advisor	3	04/11/01	n/a	
F-34	EOF Technical Advisor	0	07/28/92	n/a	
F-36	Technical Information Liaison	1	01/22/97	n/a	
F-37	Emergency Action Level/Protective Action Evaluator	0	07/28/92	n/a	
F-38	Security Supervisor	0	07/28/92	n/a	
F-39	Radiation Protection Supervisor	1	10/18/93	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 4 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-40	EOF Administrative Supervisor	2	07/25/00	n/a	
F-41	EOF Engineering Supervisor	0	07/28/92	1/1	07/28/99
F-42	RP (EOF) Communicator	0	07/28/92	n/a	
F-43	Dose Assessment Supervisor	1	12/01/93	n/a	
F-44	Dose Assessor	0	07/28/92	n/a	
F-45	Field Team Coordinator	2	01/10/00	n/a	
F-46	Field Teams	0	07/28/92	n/a	
F-47	Radiological Controls Coordinator	1	11/23/93	n/a	
F-48	Environmental Lab Coordinator	1	11/23/93	2/1	03/25/99
F-49	EOF Monitor	0	07/28/92	n/a	
F-50	EOF Records Management Coordinator	0	07/28/92	n/a	
F-51	EOF Communicator	3	02/24/00	n/a	
F-52	Log Coordinator	0	07/28/92	n/a	
F-53	Copy Clerk	0	07/28/92	n/a	
F-54	TSC Emergency Advisor	0	07/28/92	n/a	
F-55	Procurement Coordinator	1	05/16/01	n/a	
F-56	Word Processor	1	05/16/01	n/a	
F-57	EOF Computer Operator	4	09/02/99	n/a	
F-58	Mechanical/Nuclear Engineer	0	07/28/92	n/a	
F-59	EOF Electrical Engineer	0	07/28/92	n/a	
F-60	Core Damage Assessor	0	07/28/92	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 5 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-61	Technical Advisor to State/Local Organizations	0	07/28/92	n/a	
F-62	EOF Administrative Support	0	07/28/92	n/a	
F-63	Fire Brigade Coordinator	0	07/28/92	n/a	
F-64	RAFT Liaison	0	07/28/92	n/a	
F-65	Warehouseman	1	05/17/01	n/a	
F-66	EOF Access Control Coordinator	2	05/16/01	n/a	
F-67	PASS Team Leader	1	05/24/93	n/a	
F-68	Fitness for Duty (FFD) Coordinator	0	07/28/92	n/a	
F-69	HAZMAT Team Leader	0	07/28/92	n/a	
F-70	Assistant Emergency Team Coordinator	0	07/28/92	n/a	
F-71	OSC Communicator	0	07/28/92	n/a	
F-72	OSC Support	0	10/05/93	n/a	
F-73	Mechanical Engineer	0	07/27/99	n/a	
EC-02	EMERGENCY CLASSIFICATIONS	6	04/24/98	7/1, 7/2, 7/3	01/27/99, 12/13/99, 12/20/99
EC-03	NOTIFICATION OF UNUSUAL EVENT	6	06/15/01	n/a	
EC-04	ALERT	6	06/15/01	n/a	
EC-05	SITE AREA EMERGENCY	6	06/15/01	n/a	
EC-06	GENERAL EMERGENCY	6	06/15/01	n/a	
EC-07	EMERGENCY PLAN NOTIFICATION	12	08/02/01	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 6 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
	F-01 State and NRC Notifications Checklist	1	01/19/01	2/1	05/31/01
EC-08	NON-ESSENTIAL PERSONNEL EVACUATION	8	07/23/00	n/a	
EC-09	SECURITY DURING EMERGENCIES	5	03/22/96	6/1, 6/2	09/21/98, 07/30/99
EC-10	PERSONNEL ACCOUNTABILITY	7	06/15/01	n/a	
EC-11	REENTRY	4	08/03/99	n/a	
EC-12	EMERGENCY TEAMS	8	10/03/00	n/a	
EC-13	REACTOR CORE DAMAGE ESTIMATION	4	09/19/97	5/1, 5/2	12/01/97, 09/28/99
EC-14	RECOVERY	3	10/21/94	4/1, 4/2, 4/3	02/08/96, 02/03/99, 12/13/99
	F-01 Recovery Checklist	0	10/21/94	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 7 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>FACILITIES AND EQUIPMENT (FE)</u>					
FE-01	TSC OPERATIONS	7	02/12/01	n/a	
FE-02	OSC OPERATIONS	6	06/09/97	7/1, 7/2	07/23/99, 08/02/01
FE-03	EOF OPERATIONS	6	04/11/01	n/a	
FE-04	BEOF OPERATIONS	6	04/11/01	n/a	
FE-05	EMERGENCY EQUIPMENT & SUPPLIES	11	05/26/97	n/a	
F-02	OSC Emergency Equipment	4	05/16/01	n/a	
F-03	EOF Emergency Equipment	4	05/16/01	n/a	
F-04	BEOF Emergency Equipment	1	05/16/01	n/a	
F-05	EOF Environmental Lab Equipment	0	04/28/92	n/a	
F-06	Emergency Vehicle Kit	0	04/28/92	n/a	
F-07	Field Monitoring Kit	2	05/16/01	n/a	
F-08	Hospital Kit	2	05/16/01	n/a	
F-09	Decontamination Kit	2	10/16/94	n/a	
F-10	TSC Administrative Supplies	4	05/16/01	n/a	
F-11	OSC Administrative Supplies	1	05/16/01	n/a	
F-12	OSC Maintenance Tool Box	3	05/16/01	n/a	
F-13	First Aid Kit (Trauma Kit)	2	05/16/01	n/a	
F-14	EOF Administrative Supplies	2	05/16/01	n/a	
F-15	BEOF Administrative Supplies	1	05/16/01	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 8 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
	F-16 JPIC Administrative Supplies	2	04/11/01	n/a	
	F-17 EOP Supply Kit	4	09/30/99	n/a	
	F-18 EOP MCR Tool Bag	1	05/16/01	n/a	
FE-06	EMERGENCY COMMUNICATIONS EQUIPMENT	5	11/07/00	n/a	

MISCELLANEOUS (MS)

MS-01	TRANSPORTATION ACCIDENTS	4	10/13/97	5/1	02/01/00
MS-03	NOTIFICATION OF NEXT OF KIN	4	01/12/96	5/1, 5/2	02/03/99, 12/13/99
MS-04	PROCESSING NRC & IDNS PERSONNEL DURING AN EMERGENCY	4	06/06/00	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

DATE: 10-Aug-01
PAGE: 9 of 11

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>PUBLIC RELATIONS (PR)</u>					
F-01	JPIC Administration Coordinator Checklist	1	02/06/97	n/a	
F-02	JPIC Audiovisual Support Checklist	1	02/06/97	n/a	
F-03	JPIC Director Checklist	2	02/06/97	n/a	
F-05	JPIC Assistant Director Checklist <i>1/4 8.14.01</i>	2	02/06/97	n/a	
F-06	JPIC Graphic Support Checklist	0	07/28/92	n/a	
F-07	JPIC Public Information Officer Checklist	2	04/11/01	n/a	
F-08	JPIC Media Coordinator Checklist	0	07/28/92	n/a	
F-09	JPIC Media Monitoring Team Checklist	0	07/28/92	n/a	
F-11	JPIC Security Representative Checklist	0	07/28/92	n/a	
F-12	JPIC Technical Advisor Checklist	0	07/28/92	n/a	
F-13	JPIC Technical Information Coordinator Checklist	0	07/28/92	n/a	
F-14	Writer Checklist	0	07/28/92	n/a	
F-15	IP PIO Steno Checklist	1	07/06/93	n/a	
F-16	JPIC Telefax Operator Checklist	0	07/28/92	n/a	
F-17	JPIC Registration Staff Checklist	0	07/28/92	n/a	
PR-03	PREPARATION AND	9	05/16/01	n/a	

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
	DISSEMINATION OF EMERGENCY INFORMATION				
PR-05	PUBLIC INFORMATION & EDUCATION	7	06/15/01	n/a	

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>RADIOLOGICAL ASSESSMENT (RA)</u>					
RA-01	MANUAL RADIOLOGICAL DOSE ASSESSMENT	6	08/20/99	7/1	11/29/99
RA-02	PROTECTIVE ACTION RECOMMENDATIONS	5	08/08/01	n/a	
RA-03	RADIOLOGICAL EXPOSURE GUIDELINES	5	10/13/97	n/a	
RA-04	PERSONNEL MONITORING & DECONTAMINATION	7	08/03/99	n/a	
RA-05	PERSONNEL PROTECTION	6	02/24/00	n/a	
RA-06	STATION RADIOLOGICAL SURVEYS	6	06/03/96	n/a	
RA-07	FIELD RADIOLOGICAL MONITORING	6	08/03/99	n/a	
RA-09	POST ACCIDENT SAMPLING	6	10/12/94	7/1	06/19/97
RA-11	STACK EFFLUENT ANALYSIS & SAMPLING	7	08/27/00	n/a	
RA-14	DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES	6	12/14/99	n/a	
RA-15	PREDICTIVE RELEASE RATES	6	02/18/98	n/a	
RA-16	COMPUTERIZED RADIOLOGICAL DOSE ASSESSMENT	5	08/03/99	n/a	
RA-17	RADIOLOGICAL CONTROL OF THE EOF	9	5/16/01	n/a	
RA-18	EOF ENVIRONMENTAL LAB OPERATIONS	4	08/03/99	n/a	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: AP-05
REVISION: 11
PAGE: 1 of 13

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

SCOPE OF REVISION: Updated titles to match current organization. With the incorporation of CPS into the MW ROG, this procedure has been revised to be consistent with the MWROG. These changes include, revising definitions of expired access training and ERO training and relaxed the requirement for SCBA training to 50% qualified. Condition Reports are now issued against individuals for missing assigned drills and/or training. Also clarified how annual training will be conducted under current organization while some team members transition to the new Exelon organization. This revision also serves as the biennial review.

Authority

	<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by		Greg Birk	7/25/01
Security Manager		<i>Drum Smith</i>	8/3/01
Concurrence		NA	
Concurrence		NA	
Concurrence		NA	
Independent Reviewer		<i>Yn Ez</i>	8/3/01
Manager-Clinton Power Station		<i>R.J. Swanson (SR)</i>	8-3-01

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AUG 15 2001

223
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TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

CONTENTS

- 1.0 INTRODUCTION
- 2.0 RESPONSIBILITY
- 3.0 DEFINITIONS
- 4.0 INSTRUCTIONS
 - 4.1 Program Development
 - 4.2 Training Requirements
 - 4.3 Initial Training
 - 4.4 Requalification Training
 - 4.5 Remedial Training
 - 4.6 Access Training
 - 4.7 Specialized Training
 - 4.8 Drills and Exercises
 - 4.9 Training for Offsite Organizations
 - 4.10 Other Training
 - 4.11 Training Critiques
- 5.0 REFERENCES
- 6.0 ATTACHMENTS
- 7.0 FORMS

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

1.0 INTRODUCTION

The purpose of this implementing procedure is to describe the methods for conducting Emergency Planning (EP) training.

2.0 RESPONSIBILITY

- 2.1 Security Manager - is responsible for review and implementation of this procedure, initial and requal training as outlined in the Emergency Planning Training Program Description (EP TPD).
- 2.2 Manager-Clinton Power Station - is responsible for final approval of this procedure.
- 2.3 Security Analyst - is responsible for providing annual Medical First Responder Training (or equivalent) and ensuring that a sufficient number of security force members are on shift, at all times, qualified in First Responder training (or equivalent).
- 2.4 Department Managers - are responsible for ensuring their personnel attend assigned initial and requal ERO Training.

3.0 DEFINITIONS

- 3.1 Abbreviated Radiation Worker Training - The abbreviated version of Radiation Worker Training for individuals qualified in accordance with the Radiation Worker and Respirator Protection Training Program Description.
- 3.2 Audit Only - The term Audit Only refers to classroom training an individual shall receive which does not relate directly to his emergency duties but should be provided for background information. An examination is not required for Audit Only training. Requal training is not required for Audit Only training.
- 3.3 Expired Training - ERO Requal Training which has not been received by the end of the calendar year. For access training this expires in accordance with the applicable program procedure.
- 3.4 Initial Training - Initial training consists of the initial training courses provided to an individual assigned to an emergency response position as part of their ERO initial qualifications.
- 3.5 Overdue Training – Requalification training which has not been received within 12 months of last receiving it.
- 3.6 Radiation Worker Training - The course required for any individual who is to be granted unescorted access within the Radiological Controlled Area and to ERO members who need access to the EOF.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

- 3.7 Requal Training - Training provided annually for emergency response personnel.
- 3.8 Required Reading - Required readings may be used to provide emergency response personnel information for which classroom training is not necessary.
- 3.9 Respiratory Protection Training - Respiratory protection training is given to individuals who will perform work requiring respiratory protection, individuals who will supervise work requiring respiratory equipment, and individuals required to wear protective equipment for emergency situations. The training program is based on the hazards to be encountered and the types and uses of respirators to be worn.
- 4.10 EP TPD - Contains the training matrix for required ERO training.
- 3.11 Training Drills – The primary method used to provide requalification training for most ERO members. These are normally Facility or Tabletop drills.

4.0 INSTRUCTIONS

4.1 Program Development

- 4.1.1 Nuclear Training Learning Services and/or the Emergency Planning Group shall develop initial and requalification training material for the EP TPD consistent with the following goals:
 - To familiarize employees with the CPS Emergency Plan and it's implementing procedures.
 - To ensure that Emergency Response Organization (ERO) personnel are initially trained to function properly and efficiently for their assigned CPS Emergency Plan duties and responsibilities.
 - To provide ongoing requalification training to ensure that ERO personnel remain familiar with their assigned CPS Emergency Plan duties and responsibilities.
 - For personnel whose emergency position is essentially equivalent to their normal job function, maintaining current qualification within their respective discipline is sufficient to maintain their ERO qualification. The EP TPD will specify those positions.
- 4.1.2 The ERO training program includes knowledge and performance based training as well as evaluations in which individuals demonstrate the ability to perform their assigned emergency function.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

- 4.1.3 Initial ERO training material shall be approved by or concurred by Emergency Planning. Concurrence shall be obtained from Radiation Protection if the instructional material deals with radiological control. Concurrence shall be obtained from the Security Analyst, if the instructional material pertains to Security Controls.
- 4.1.4 The Training Manager, or designee, shall coordinate and schedule personnel, facilities, instructors, and instructional periods as requested to support the initial and the requalification ERO training program.
- 4.1.5 The Security Manager shall provide sufficient ERO requal training and initial training courses as listed in the EP TPD.
- 4.1.6 The Training Manager or designee shall maintain records pertaining to the CPS Emergency Preparedness Training Program.
- 4.1.7 Department Directors should ensure their personnel are provided time to attend scheduled initial and requalification ERO training.

4.2 Training Requirements

- 4.2.1 The EP TPD shall delineate training requirements for each ERO position. Course substitutions are permissible if approved by the Security Manager. These substitutions should be documented by using a Training Waiver to indicate the course substitution.
- 4.2.2 Emergency Planning shall develop and maintain the EP TPD.
- 4.2.3 The EP TPD shall be approved by the Security Manager.
- 4.2.4 Successful completion of licensed operator training may satisfy certain ERO training requirements as indicated in the training matrix.
- 4.2.5 Additional training for Senior Reactor Operators, Reactor Operators, Non-Licensed Operators, and Shift Technical Advisors who have an additional ERO position should be determined on a case by case basis by the Security Manager. The additional training may be in the form of classroom training, briefing, required reading, and/or self-study.
- 4.2.6 Training for individuals moving from one Emergency Response position to another should be determined on a case by case basis by the Security Manager/designee.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

4.2.7 Revisions to the EP TPD do not necessarily require retraining for individuals previously qualified. If any retraining is required the training matrix revision summary will include the scope of retraining required.

4.2.8 ERO training requirements may be waived using an approved IMP04, Training Exemption Form.

4.3 Initial Training

4.3.1 Initial training shall as a minimum consist of a course or series of courses pertaining to each trainee's ERO position as outlined in the EP TPD. Initial training may include briefings, seminars, walkthroughs, and drills.

4.3.2 Successful completion of initial training shall include completion of classroom training in accordance with the EP TPD.

4.3.3 Successful completion of initial classroom training shall require a minimum score as designated on the written examination or satisfactory performance on a practical demonstration, as appropriate. A separate examination/practical demonstration should be administered for each course attended.

NOTE:

Successful completion of the following courses shall require attendance of the course and demonstration by the course participants through hands on use that they are familiar with course content. In the courses with an * the demonstration is accomplished by a check for understanding. Therefore, no examination will be administered:

- ERO Notifications*
- Computerized Dose Assessment*

4.3.4 Self-study may be approved for classroom training.

4.3.5 Remedial training shall be accomplished in accordance with section 4.5 of this procedure.

4.3.6 When initial training has been completed, the ERO roster shall be updated in accordance with AP-10, EMERGENCY RESPONSE ORGANIZATION ASSIGNMENTS.

4.3.7 In the event procedural changes occur in the interim period between scheduled training sessions, training may be accomplished via ERO correspondence, such as EP Bulletins.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

4.4 Regualification Training

- 4.4.1 Regualification training shall be conducted at least annually. Regualification training shall normally be conducted in twelve month intervals from the last time training was administered and completed no later than the end of the calendar year.

NOTE

For 2001, some current ERO members will be assigned to the Exelon Emergency Response Organization. Normally, ERO members would complete annual training by the end of 2001. Credit for annual ERO training may be given, if needed, to those current ERO members who receive training on the new Exelon ERO prior to the end of 2001. Current ERO members not assigned to the new Exelon ERO will complete their annual ERO requal training in accordance with the ERO TPD prior to the end of 2001.

- 4.4.2 Performance based evaluations are the primary method by which ERO members receive regualification training. Tabletop or Facility drills are structured to facilitate regualification training. As such, the EP TPD lists a TD (Training Drill) as a regualification requirement for most ERO positions. For this reason, ERO members are expected to participate in at least one training drill per year.
- 4.4.3 A performance-based evaluation may be conducted outside the scope of a normal training drill using approved evaluation measures for the appropriate ERO position to be evaluated. This will be tracked as a TD-PE to clearly indicate a performance evaluation (PE) was conducted outside the scope of the drill. This would fulfill the annual regualification training requirement normally satisfied with drill participation.
- 4.4.4 Regualification training consists of one or more of the following methods:
- Training in accordance with the EP TPD.
 - Required reading or discussion of duties and responsibilities as indicated on the EP TPD.
 - Training regarding applicable performance related deficiencies in emergency drills/exercises conducted since the previous regualification training.
 - Review of significant Emergency Response Organization (ERO) correspondence since the previous training.
 - Training regarding applicable procedural changes since the previous regualification training.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

- 4.4.5 Successful completion of classroom requalification training shall include completion of training in accordance with the EP TPD.
- 4.4.6 Successful completion of a challenge examination may be used for classroom requalification training. Failure to attain a minimum score, as designated on the challenge examination, requires attendance and successful completion of the initial classroom training.

NOTE

Successful completion of the following courses does not require a written exam:
ERO Notifications and Computerized Dose Assessment.

- 4.4.7 In accordance with the EP TPD, positions whose emergency task is essentially equivalent to their normal job function, requalification training specifically for ERO is not required. Personnel within these positions shall maintain qualification within their respective discipline per that discipline TPD.
- 4.5 Remedial Training
- 4.5.1 When an individual fails to attain the minimum score as designated on the examination for any course included in this procedure, remedial training should be provided. In the case of requalification training the remedial training shall be conducted before the training expires.
 - 4.5.2 If the individual fails the first remediation experience, the suitability for retraining shall be resolved between the employee's Department Head, the Training Manager and/or Security Manager.
 - 4.5.3 All remedial examinations for courses included in this procedure shall be written examinations. Oral examinations shall not be provided or accepted.
 - 4.5.4 Should a second remedial examination be required, it should differ by at least 40% from the first.
- 4.6 Access Training
- 4.6.1 Personnel assigned to the Emergency Operations Facility shall complete Radworker Training in accordance with the EP TPD.
 - 4.6.2 Personnel assigned to the Main Control Room, Technical Support Center, and Operations Support Center shall complete Radworker Training as outlined in the Radiation Worker and Respiratory Protection TPD.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

NOTE

Abbreviated Radiation Worker may be substituted for Radiation Worker in accordance with the Radiation Worker and Respiratory Protection TPD.

- 4.6.3 Those personnel whose ERO positions may require them to wear respirators shall complete Respiratory Protection Training and Self Contained Breathing Apparatus (SCBA) training, if they are required to wear SCBAs, as outlined in Radiation Worker and Respiratory Protection TPD. The ERO positions requiring respiratory protection training and SCBA training are delineated in the EP TPD.
- 4.6.4 Those personnel who are required to maintain Respiratory Protection Training/SCBA training are scheduled by their training coordinators to ensure that at least 50% of them by discipline/position are qualified.
 - 4.6.4.1 Emergency Planning is responsible for scheduling individuals to attend ERO Training Drills. Condition Reports will be generated when individuals fail to attend scheduled drills and/or training.
 - 4.6.4.2 A Condition Report will be written if <50% of the Emergency Team Members for any plant discipline are not qualified in Respiratory Protection/SCBA training.
- 4.6.5 Key personnel as defined in EC-01, CPS EMERGENCY RESPONSE ORGANIZATION AND STAFFING, for the TSC and OSC will be monitored for compliance with Radiation Worker Training Requalification to ensure response times of key personnel are maintained.
- 4.6.6 Contract personnel assigned an emergency response position at Clinton Power Station should complete the training requirements in accordance with this procedure for the appropriate emergency response facility.
- 4.6.7 In the event services of personnel that have not received site specific training are required, training shall be administered as needed. The training shall be in accordance with the applicable policies/procedures.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

4.7 Specialized Training

4.7.1 The following specialized training shall be provided to the applicable positions per the EP TPD:

Source Term Estimation
Reactor Core Damage Estimation
Manual Dose Assessment
Computerized Dose Assessment
ERO Notifications

4.8 Drills and Exercises

Refer to AP-04, PREPARATION AND CONDUCT OF EMERGENCY DRILLS AND EXERCISES.

4.9 Training for Offsite Organizations

4.9.1 Offsite organizations and individuals are offered training on an annual basis by the Illinois Emergency Management Agency.

4.9.2 Clinton Power Station personnel, State/local agencies, or consultants may conduct the offsite training.

4.9.3 Offsite organization training conducted by the CPS Emergency Planning Group shall include:

- Plant layout and access procedures.
- Handling contaminated injuries.
- Identification of individuals in the CPS Emergency Response Organization responsible for coordinating offsite activities.

4.9.4 Training on self-contained breathing apparatus shall be offered annually to offsite fire departments, which do not provide their own SCBA training.

4.9.5 The Illinois Emergency Management Agency should include training for notifications, communications, and radiological controls in the appropriate courses for offsite personnel.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

4.9.6 Organizations and training offered are outlined on the training matrix maintained by the Illinois Emergency Management Agency.

4.9.7 The Security Manager shall ensure that offsite training is conducted and shall maintain copies of offsite training attendance sheets for training conducted by the CPS Emergency Planning Group.

4.10 Other Training

4.10.1 The CPS Emergency Preparedness Training Program credits the training provided to Station personnel in other areas, such as Fire Brigade, Medical First Responder, Operations and Maintenance.

4.10.1.1 Fire Brigade training shall be conducted in accordance with CPS No. 1001.06, CPS FIRE BRIGADE.

4.10.1.2 The Security Analyst/Designee shall provide sufficient training in Medical First Responder training or equivalent to ensure there are two personnel onsite at all times that are trained in Medical First Responder (or equivalent) and are capable to respond.

4.10.1.3 Training provided for SRO's, RO's and NLO's per the Operations Training TPD is sufficient to credit Operations personnel for their ERO training as identified in the EP TPD.

4.10.1.4 Training provided for RP technicians, Chemistry technicians and Maintenance personnel assigned to Emergency team member positions by their respective discipline TPD is sufficient to credit those personnel for their ERO training as identified in the EP TPD.

4.10.2 Medical support personnel for Dr. John Warner Hospital, Decatur Memorial Hospital, and Clinton Ambulance personnel who may be involved in response to an emergency at CPS shall receive training in how to handle radiation accident cases.

4.10.2.1 They shall be invited to annual requalification training on how to handle radiation accident cases.

4.10.2.2 This training may be provided by a Medical Consultant.

4.10.2.3 Local medical professionals are offered training in the treatment of patients that are contaminated and/or over exposed to radiation.

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

4.10.2.4 These medical professionals may be offered annual requalification training in the treatment of radiation accident patients.

4.11 Training Critiques

- 4.11.1 To satisfy the regulations as stated in 10CFR50 Appendix E, IV.F.3, emergency preparedness training courses shall be critiqued by offering the opportunity to trainees to formally critique courses.
- 4.11.2 These critique comments may include student-generated comments on the Emergency Preparedness Program, in particular recommendations for changes/improvements to the procedures or plans.
- 4.11.3 Nuclear Training shall be responsible for reviewing training critique comments associated with courses they have taught to determine if any relate to the CPS Emergency Plan or Implementing Procedures.
- 4.11.4 Nuclear Training should forward Emergency Planning training critique comments that deal with the CPS Emergency Plan or Implementing Procedures to Emergency Planning.
- 4.11.5 The Security Manager shall be responsible for tracking the resolution of critique items.

5.0 REFERENCES

- 1. 10CFR50, Appendix E, "Emergency Planning and Preparedness for Production and Utilization Facilities"
- 2. CPS Emergency Plan, Section 5.4
- 3. AP-04, PREPARATION AND CONDUCT OF EMERGENCY DRILLS AND EXERCISES
- 4. CPS No. 1001.06, CPS FIRE BRIGADE
- 6. Illinois Plan for Radiological Accidents, Volume VIII, Clinton
- 7. Radiation Worker and Respiratory Protection Training Program Description.
- 8. AP-10, EMERGENCY RESPONSE ORGANIZATION ASSIGNMENTS
- 9. EC-01, CPS EMERGENCY RESPONSE ORGANIZATION AND STAFFING
- 11. PR-01, JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: AP-05
REVISION: 11
PAGE: 13 of 13

TITLE: EMERGENCY PREPAREDNESS TRAINING PROGRAM

6.0 ATTACHMENTS

None.

7.0 FORMS

None.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 1 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

SCOPE OF REVISION: Added additional clarification for overseeing Emergency teams dispatched by the Main Control Room.

Authority

<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by	Wayne Helenthal	7/16/01
Security Manager	<i>Dmitri Smith</i>	8/2/01
Concurrence	NA	
Concurrence	NA	
Concurrence	NA	
Independent Reviewer	<i>Jim En</i>	8/1/01
Manager-Clinton Power Station	<i>R. J. Sullivan</i>	8-2-01

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CLINTON POWER STATION

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Activation Level: NOTIFICATION OF UNUSUAL EVENT or more severe

Location: Main Control Room

Position Description:

Upon diagnosing an emergency condition, the Shift Manager activates the CPS Emergency Plan by declaring the appropriate emergency classification, and acts as the Interim Station Emergency Director until relieved. The Interim Station Emergency Director is the Individual with Command Authority and is responsible for those items listed on Attachment 2, COMMAND AUTHORITY RESPONSIBILITIES, until this responsibility is transferred.

The Interim Station Emergency Director (Interim SED), shall classify the emergency, announce the emergency to Site personnel, and shall ensure the appropriate CPS Emergency Plan Implementing Procedures are initiated. The Interim SED shall also ensure that appropriate notifications are made to offsite authorities and that mitigating activities are performed by assigning cognizant shift personnel to emergency response functions as deemed necessary to return the Station to a pre-emergency or safe shut-down condition. The Interim SED shall also ensure necessary Station evacuation and security measures are initiated.

Duties:

In addition to command authority responsibilities, the duties of the Interim Station Emergency Director are:

1. Request support from State and local offsite agencies, as needed.
2. Assign shift members to emergency duties.
3. Ensure notifications have begun per EPIP EC-07, EMERGENCY PLAN NOTIFICATION, including ambulance services, as required.

NOTE: If the TSC is activated, the OSC shall also be activated.

4. Activate additional Emergency Response Organization personnel and emergency response facilities, as necessary.
5. Oversee the progress of radiation monitoring teams and Emergency teams dispatched onsite or offsite until the TSC is activated.
6. Establish and maintain communication with the radiation monitoring teams and Emergency teams dispatched from the MCR until the TSC is activated.
7. Initiate personnel accountability, including contract personnel and visitors, per EC-10, PERSONNEL ACCOUNTABILITY, as necessary.
8. Direct or act as liaison between CPS and offsite agencies operating within the immediate site vicinity until relieved.
9. Implement recovery and restoration efforts as situations dictate.
10. Ensure that a record is maintained of major emergency related activities and data within the Station Emergency Response Organization's scope of responsibility.
11. Prior to relinquishing command authority to the TSC, ensure the SED receives a thorough briefing on plant status as well as emergency teams previously dispatched to the field.

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist:

NOTIFICATION OF UNUSUAL EVENT

Page 1 of 3

Initials

A. Initial Actions

1. Declare the NOTIFICATION OF UNUSUAL EVENT (NOUE) emergency classification and assume command authority.
(EC-02, Attachment 2, Item _____.)

/

Time

2. Sound the Plant General Purpose Alarm from the MCR and make an announcement using the following script as a guide:

"ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL. A NOTIFICATION OF UNUSUAL EVENT HAS BEEN DECLARED. REPEAT, A NOTIFICATION OF UNUSUAL EVENT HAS BEEN DECLARED DUE TO

_____.
(Reason for Classification)

3. Designate an individual to complete a NARS Form and notify the IEMA/IDNS. (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). Notification must be made within 15 minutes of the declaration.

4. Designate an individual to complete an ENS Form and notify the NRC. (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). (Notification must be made within 1 hour of the declaration).

5. If Medical or Fire assistance is needed, direct Security to contact offsite organizations (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

6. Direct security to activate the ERO Notification System and the OCA Notification System for a NOUE (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

NOTE:

Although no Emergency Response Facilities are staffed at NOUE, Security does notify designated individuals, via the ERO Notification System, the OCA Notification System and radio.

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

NOTIFICATION OF UNUSUAL EVENT

Page 2 of 3

Initials

- | | |
|--|-------|
| 7. Direct appropriate response actions to mitigate the emergency conditions. | _____ |
| 8. If prudent, evacuate non-essential personnel from the affected area (Reference: EC-08, NON-ESSENTIAL PERSONNEL EVACUATION). Implement EC-10, PERSONNEL ACCOUNTABILITY if personnel accountability is warranted. | _____ |
| 9. Designate an individual to provide CPS Communication personnel with approved emergency related information upon request. | _____ |
| 10. Designate an individual to establish and maintain communications with Emergency teams dispatched from the MCR. Maintain a status log of each team. | _____ |

B. Routine Actions

- | | |
|---|-------------|
| 1. Monitor response activity progress and direct efforts to mitigate the emergency condition. | NA
_____ |
| 2. Confer with the Manager-CPS and the Director-Plant Operations and provide them with a status briefing. | NA
_____ |
| 3. Maintain personal log entries in the Shift Manager's Log Book. | NA
_____ |
| 4. Periodically provide status updates to site personnel via Gai-Tronics in the protected area. | NA
_____ |
| 5. Provide hourly updates to the NRC (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). | NA
_____ |

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 5 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist: (Cont'd)

NOTIFICATION OF UNUSUAL EVENT

Page 3 of 3

Initials

C. Change in Emergency Classification

1. Decide on need to change the Emergency Classifications.
(Reference: EC-02, EMERGENCY CLASSIFICATIONS).

NA

2. Go to the section for the appropriate new emergency classification.

D. Termination

1. If plant and/or offsite conditions improve to a point where continued implementation of the CPS Emergency Plan is no longer required, go to the section for termination of the emergency (page 17).

Performed By: _____ / _____
Name Date

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 6 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist:

ALERT

Page 1 of 3

Initials

A. Initial Action

1. Declare the "ALERT" emergency classification and assume command authority, as appropriate.
(EC-02, Attachment 2, Item _____.)

/_____
Time

2. Sound the Plant General Purpose Alarm from the MCR and make an announcement using the following script as a guide:

"ATTENTION ALL PERSONNEL, ATTENTION ALL PERSONNEL. AN ALERT EMERGENCY HAS BEEN DECLARED. REPEAT, AN ALERT EMERGENCY HAS BEEN DECLARED DUE TO

(Reason for Classification)

3. Designate an individual to complete a NARS Form and notify IEMA/IDNS, (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). Notification must be made within 15 minutes of the declaration.

4. Designate an individual to complete an ENS Form and notify the NRC (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). (Notification must be made within 1 hour of the declaration).

5. If Medical or Fire assistance is needed, direct Security to contact offsite organizations (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

6. Direct security to activate the ERO Notification System and OCA Notification System for an ALERT (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

7. If prudent, evacuate non-essential personnel from the affected area (Reference: EC-08, NON-ESSENTIAL PERSONNEL EVACUATION). Implement EC-10, PERSONNEL ACCOUNTABILITY if personnel accountability is warranted

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 7 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

ALERT

Page 2 of 3

Initials

B. Routine Actions

1. Continue with the following responsibilities as appropriate until relieved of them by the TSC:
 - a. notifications to offsite authorities
 - b. communications and support requests to offsite authorities
 - c. emergency response organization mobilization
 - d. emergency re-classification
 - e. dose assessment/re-assessment
 - f. coordination of offsite support to the Station
 - f. providing emergency information to CPS Communication personnel or to the EOF or JPIC
 - h. overall command of CPS Emergency Response activities
 - i. communication and control of Emergency teams.

2. Monitor activation of support emergency response facilities.

NA

3. Update the NRC and State hourly.

NA

4. Provide status updates to the TSC, if activated.

NA

5. Maintain direction of Control Room activities.

NA

6. Maintain personal log entries in the Shift Manager's Log Book.

NA

C. Transfer of Command Authority

1. Direct the transfer of the following responsibilities to the TSC once it is activated:
 - a. offsite notifications, communications, support and coordination
 - b. emergency reclassification
 - c. offsite dose assessment
 - d. making protective action recommendations
 - e. providing emergency information for release to the media
 - f. dispatch and control of emergency teams.

2. When the TSC is operational, transfer Command Authority as appropriate to the Station Emergency Director.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 8 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

ALERT

Page 3 of 3

Initials

D. Change in Emergency Classification

1. Decide on need to change the Emergency Classification
(reference: EC-02, EMERGENCY CLASSIFICATIONS).

NA

2. Go to the section for the appropriate new emergency
classification.

E. Termination

1. If plant and/or offsite conditions improve to a point where
continued implementation of the CPS Emergency Plan is no
longer required, go to the section for termination of the
emergency (page 17).

Performed By: _____ / _____
Name Date

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 9 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist:

SITE AREA EMERGENCY

Page 1 of 4

Initials

A. Initial Actions

1. Declare the SITE AREA EMERGENCY Classification and assume Command Authority, as appropriate.
(FC-02, Attachment 2, Item _____.)

Time

2. Sound the Plant General Purpose Alarm from the MCR and make an announcement using the following script as a guide:

"ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL. A SITE AREA EMERGENCY HAS BEEN DECLARED. REPEAT, A SITE AREA EMERGENCY HAS BEEN DECLARED DUE TO

_____.
(Reason for Classification)

ALL NON-ESSENTIAL PERSONNEL PLEASE REPORT TO THE ONSITE ASSEMBLY AREA".

3. Designate an individual to complete a NARS Form and notify IEMA/IDNS. (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). Notification must be made within 15 minutes of the declaration.

4. Designate an individual to complete an ENS Form and notify the NRC (Reference: EC-07, EMERGENCY PLAN NOTIFICATION). (Notification must be made within 1 hour of the declaration).

5. If Medical or Fire assistance is needed, direct Security to contact offsite organizations (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

6. Direct Security to activate the ERO Notification System and the OCA Notification System for a SITE AREA EMERGENCY (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

7. Direct Security to implement Site Access Control (Reference: EC-09, SECURITY DURING EMERGENCIES) and implement Personnel Accountability (Reference: EC-10, PERSONNEL ACCOUNTABILITY).

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 10 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

SITE AREA EMERGENCY

Page 2 of 4

Initials

8. Once accountability is complete, non-essential personnel should be evacuated from the site:

Select exit routes and destination, then direct a Site Evacuation:

Sound the Plant Evacuation Alarm from the MCR and make an announcement using the following script as a guide:

“ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL. ALL NON-ESSENTIAL PERSONNEL ARE TO EVACUATE THE SITE. EXIT THE PROTECTED AREA USING THE

(Select One): *Craft Security Portal
Operations Gate House
Craft Security Portal or Operations Gate House*

THEN EXIT THE OCA USING THE

(Select One): *Northwest Gate
Northeast Gate
Northwest Gate or Northeast Gate*

AND

(Select One): *Go Home.
Report to the Richland Community College in Decatur.
Report to the Monticello High School in Monticello
Report to the ISU Horton Field House in Normal.*

PLEASE PASS THIS INFORMATION ONTO OTHERS.”

(Reference: EC-08, NON-ESSENTIAL PERSONNEL EVACUATION)

9. If conditions exist which may result in upgrading to a General Emergency, consider recommending to the IEMA evacuation of the peninsula area (e.g., area southwest of the plant which is only accessible through entry road to CPS).

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 11 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

SITE AREA EMERGENCY

Page 3 of 4

Initials

B. Routine Actions

1. Continue with the following responsibilities as appropriate until relieved of them by the TSC: a. notifications to offsite authorities b. communications and support requests to offsite authorities c. emergency response organization mobilization d. emergency re-classification e. dose assessment/re-assessment f. coordination of offsite support to the Station g. providing emergency information to CPS Communication personnel or to the EOF or JPIC h. overall command of CPS Emergency Response activities i. communication and control of Emergency teams..	NA
2. Monitor the activation of support emergency response facilities.	NA
3. Update the NRC and State hourly.	NA
4. Provide status updates to the TSC, if activated.	NA
5. Maintain direction of Control Room activities.	NA
6. Maintain personal log entries in the Shift Manager's Log Book.	NA

C. Transfer of Command Authority

1. Direct the transfer of the following responsibilities to the TSC once it is activated: a. offsite notifications, communications, support and coordination b. emergency reclassification c. offsite dose assessment d. making protective action recommendations e. providing emergency information for release to the media f. dispatch and control of emergency teams.	
2. When the TSC is operational, transfer Command Authority as appropriate to the Station Emergency Director.	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 12 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

SITE AREA EMERGENCY

Page 4 of 4

Initials

D. Change in Emergency Classification

1. Decide on need to change the Emergency Classification
(Reference: EC-02, EMERGENCY CLASSIFICATIONS).

NA

2. Go to the section for the appropriate new emergency
classification.

E. Termination

1. If plant and/or offsite conditions improve to a point where
continued implementation of the CPS Emergency Plan is no
longer required, go to the section for termination of the
emergency (page 17).

Performed By: _____ / _____
Name Date

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 13 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist:

GENERAL EMERGENCY

Page 1 of 4

Initials

A. Initial Actions

1. Declare the GENERAL EMERGENCY Classification and assume Command Authority, as appropriate.
(FC-02, Attachment 2, Item _____.)

Time

2. Sound the Plant General Purpose Alarm from the MCR and make an announcement using the following script as a guide:

"ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL. A GENERAL EMERGENCY HAS BEEN DECLARED. REPEAT, A GENERAL EMERGENCY HAS BEEN DECLARED DUE TO

_____.
(Reason for Classification)

ALL NON-ESSENTIAL PERSONNEL PLEASE REPORT TO THE ONSITE ASSEMBLY AREA".

3. Designate an individual to complete a NARS Form and notify IEMA/IDNS, (Reference: EC-07, EMERGENCY PLAN NOTIFICATION, RA-02, PROTECTIVE ACTION RECOMMENDATIONS). Notification must be made within 15 minutes of the declaration. ***Ensure a protective action recommendation is included.***

4. Designate an individual to complete an ENS Form and notify the NRC, (Reference: EC-07, EMERGENCY PLAN NOTIFICATION, RA-02, PROTECTIVE ACTION RECOMMENDATIONS). Notification must be made within 1 hour of the declaration. ***Ensure a protective action recommendation is included***

5. If Medical or Fire assistance is needed, direct Security to contact offsite organizations (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

6. Direct Security to activate the ERO Notification System and the OCA Notification System for a GENERAL EMERGENCY (Reference: EC-07, EMERGENCY PLAN NOTIFICATION).

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 14 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

GENERAL EMERGENCY

Page 2 of 4

Initials

7. Direct Security to implement Site Access Control (Reference: EC-09, SECURITY DURING EMERGENCIES) and implement Personnel Accountability (Reference: EC-10, PERSONNEL ACCOUNTABILITY).

8. Once accountability is complete, non-essential personnel should be evacuated from the site:

Select exit routes and destination, then direct a Site Evacuation:

Sound the Plant Evacuation Alarm from the MCR and make an announcement using the following script as a guide:

"ATTENTION ALL PERSONNEL. ATTENTION ALL PERSONNEL. ALL NON-ESSENTIAL PERSONNEL ARE TO EVACUATE THE SITE. EXIT THE PROTECTED AREA USING THE

(Select One): *Craft Security Portal
Operations Gate House
Craft Security Portal or Operations Gate House*

THEN EXIT THE OCA USING THE

(Select One): *Northwest Gate
Northeast Gate
Northwest Gate or Northeast Gate*

AND

(Select One): *Go Home.
Report to the Richland Community College in Decatur.
Report to the Monticello High School in Monticello
Report to the ISU Horton Field House in Normal.*

PLEASE PASS THIS INFORMATION ONTO OTHERS."

(Reference: EC-08, NON-ESSENTIAL PERSONNEL EVACUATION)

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

GENERAL EMERGENCY

Page 3 of 4

Initials

B. Routine Actions

1. Continue with the following responsibilities as appropriate until relieved of them by the TSC:
 - a. notifications to offsite authorities
 - b. communications and support requests to offsite authorities
 - c. emergency response organization mobilization
 - d. emergency re-classification
 - e. dose assessment/re-assessment
 - f. coordination of offsite support to the Station
 - g. providing emergency information to CPS Communication personnel or to the EOF or JPIC
 - h. overall command of CPS Emergency Response activities
 - i. communication and control of emergency teams.

NA

2. Monitor the activation of support emergency response facilities.

NA

3. Update the NRC and State hourly.

NA

4. Provide status updates to the TSC.

NA

5. Maintain direction of Control Room activities.

NA

6. Maintain personal log entries in the Shift Manager's Log Book.

NA

C. Transfer of Command Authority

1. Direct the transfer of the following responsibilities to the TSC once it is activated:
 - a. offsite notifications, communications, support and coordination
 - b. emergency reclassification
 - c. offsite dose assessment
 - d. making protective action recommendations
 - e. providing emergency information for release to the media
 - f. dispatch and control of emergency teams.

NA

2. When the TSC is operational, transfer Command Authority as appropriate to the Station Emergency Director.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 16 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist (Cont'd):

GENERAL EMERGENCY

Page 4 of 4

Initials

D. Termination

- | |
|---|
| 1. Enter the checklist for Recovery (EC-14 F-01) if emergency classification was a GENERAL EMERGENCY. |
|---|

Performed By: _____ / _____
Name Date

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-01
REVISION: 5
FORM: 1
PAGE: 17 of 17

TITLE: INTERIM STATION EMERGENCY DIRECTOR (ISED)

Checklist:

TERMINATION

Page 1 of 1

NOTE: If the classification is a SITE AREA EMERGENCY, you may proceed with this checklist or enter the checklist for Recovery (EC-14, RECOVERY, Form 1). If the classification is a GENERAL EMERGENCY, enter the checklist for Recovery (EC-14, RECOVERY, Form 1).

Initials

A. Actions

1. Once termination of the emergency is appropriate, determine the level of Supervisory/Management personnel necessary to efficiently deactivate emergency response activities and to maintain clean-up activities.

2. Notify those personnel of your intention to terminate the emergency. Instruct the Supervisory/Management personnel to assign a minimum of their staffs, if any, to termination activities once you declare the emergency terminated and maintain the personnel at their duty stations for further instructions.

3. Declare the emergency terminated and direct the Administrative Supervisor to have the MCR announce the TERMINATION to the Protected Area via Gai-Tronics.

4. Direct Security to announce the TERMINATION to the Owner Controlled Area via the OCA Notification System.

5. Direct notification to the NRC and IEMA/IDNS that the emergency has been terminated. Coordinate this with the SED and Emergency Manager, if the TSC and/or EOF are activated.

Performed By: _____ / _____
Name Date

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 1 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

SCOPE OF REVISION: This procedure was revised to add Attachment 4, EMERGENCY RESPONSE ORGANIZATION NOTIFICATION SYSTEM OPERATING INSTRUCTIONS". Incorporated ACN's 12/1 and 12/2. Made title changes as appropriate.

Authority

<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by	Greg Birk	7/25/01
Security Manager	<i>Donna Smith</i>	8/2/01
Concurrence	NA	
Concurrence	NA	
Concurrence	NA	
Independent Reviewer	<i>John Lee</i>	8/1/01
Manager-Clinton Power Station	<i>LT Swales (SR)</i>	8-2-01

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CLINTON POWER STATION

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 2 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

1.0 INTRODUCTION

The purpose of this procedure is to provide instructions for making notifications to members of the Emergency Response Organization (ERO) and offsite authorities in the event of and during an emergency at the Clinton Power Station.

2.0 RESPONSIBILITY

- 2.1 Shift Manager - is initially responsible for ensuring notifications are made.
- 2.2 Individual with Command Authority - is responsible for the implementation of this procedure.
- 2.3 Security Manager - is responsible for the review of this procedure.
- 2.4 Manager-Clinton Power Station - is responsible for approval of this procedure.

3.0 DEFINITIONS

None

4.0 INSTRUCTIONS

4.1 Immediate Command Authority Actions

Upon the declaration of any emergency classification, the individual with command authority shall ensure the following.

4.1.1 IF

Offsite emergency support is required,

THEN

Notify, as appropriate:

Emergency Dispatch	911, or
Clinton Ambulance Service	935-4444
or (John Warner Hospital)	935-9571
Clinton Fire Department	935-3159
Farmer City Fire Department	(309)928-2111
Kenny Fire Department	944-2241
DeWitt County Sheriff	935-3196
DeWitt County Emergency Services & Disaster Agency (ESDA)	935-9596

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 3 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

- 4.3.1 For any emergency classification as soon as possible notify the Central Alarm Station or Secondary Alarm Station at extension 3350. Announce the emergency classification declared and request that notification of the Emergency Response Organization (ERO) be performed.
- 4.1.3 Following declaration of the emergency, the individual with command authority shall also designate an individual to complete notifications to the State and Nuclear Regulatory Commission (NRC). This responsibility should not be assigned to the Incident Assessor. These notification forms to the State and the NRC should be reviewed and approved by the Individual with Command Authority prior to notifications being made.
- 4.1.4 Prepare Attachment 1, NUCLEAR ACCIDENT REPORTING SYSTEM FORM (NARS form) (refer to and complete Form 1).

AND

Within 15 minutes of declaring the emergency classification, notify the Illinois Emergency Management Agency (IEMA) and the Illinois Department of Nuclear Safety (IDNS) Dispatcher. Use the Green NARS phone and dial 98. If the initial emergency classification is General Emergency, use dial code 36 and ensure the DeWitt County Sheriff's Dispatcher is also on the line.

IF

the Nuclear Accident Reporting System phone is inoperative,

THEN

use one of the following commercial telephone numbers:

1-800-782-7860 or (IEMA)
1-217-782-7860

NOTE

IEMA should pass on notifications to IDNS if the NARS phone has failed. However, this action should be verified with the IEMA dispatcher.

NOTE

The MCR direct line should be given to IEMA for callback verification if the call is initiated from the MCR.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 4 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

NOTE

The NARS phone may ring after notifications have been completed. If personnel are available, these calls should be answered and logged on a NARS form as state messages. This is to provide confirmation of any message provided to the state agencies and document time and date county agencies were notified of the emergency.

- 4.1.5 Prepare Attachment 2, REACTOR PLANT EVENT NOTIFICATION WORKSHEET,

AND

Immediately after performing step 4.1.4 and in no case later than **within one hour** of the emergency classification, notify the Nuclear Regulatory Commission (NRC) Duty Officer of the contents of Attachment 2. Use the FTS 2001 Emergency Notification System (ENS) telephone using one of the numbers listed on the phone.

IF

the Emergency Notification System (ENS) telephone is inoperative,

THEN

use one of the following commercial telephone numbers:

1-301-816-5100
1-301-951-0550

- 4.1.5.1 The NRC may request that the individual completing the notification remain on the telephone to maintain continuous communication. If the Incident Assessor was designated to complete the notifications and is needed to perform primary duties then this may be passed on to another qualified individual.

NOTE

The MCR direct line should be given to the NRC for callback verification if the call is initiated from the MCR.

- 4.1.5.2 The REACTOR PLANT EVENT NOTIFICATION WORKSHEET may be telefaxed to the NRC Operations Center after completion of the notification on the ENS telephone. The telefax number for the NRC Operations Center is: 1-301-816-5151

- 4.1.5.3 Activate the Emergency Response Data System (ERDS) at an Alert or higher immediately after performing step 4.1.4 and in no case later than one hour of the emergency classification. Security personnel are responsible for activating the ERDS computer in the EOF.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 5 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

- 4.1.6 Perform Plant Gai-tronics announcements as appropriate or as directed by other procedures.

IF

The Gai-tronics fails to adequately broadcast the declaration of an ALERT, a SITE AREA EMERGENCY, a GENERAL EMERGENCY, or a Site Evacuation,

THEN

Request Security personnel to assist as necessary with manually broadcasting the appropriate information in affected areas using portable megaphones and security vehicles with public address equipment.

The use of portable megaphones may be necessary in high noise areas even if Gai-tronics functions properly.

- 4.1.7 Notify the Site Vice President/Manager - CPS, or designee, of the emergency (unless already notified).

4.2 Immediate Security Actions

If Security is notified of the declaration of any emergency, Security shall implement those actions described on Attachment 3, ERO/OWNER CONTROLLED AREA (OCA) NOTIFICATION CHECKLIST. The notifications should be conducted without delay. Additional detail associated with the specific requirements of this checklist have been incorporated into Plant Protection Standing Order PSO-029, EMERGENCY SECURITY NOTIFICATIONS.

NOTE

Should the emergency classification change while performing ERO notifications to the OCA, terminate the notifications already in progress and initiate ERO notifications appropriate for the most recent emergency classification.

4.3 Follow-up Notifications to Key Offsite Agencies

For an ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY, the individual with command authority shall ensure that periodic updates are provided to the State and to the NRC as delineated below:

- 4.3.1 If at any time the following information provided to the State (IEMA and IDNS) on the NARS form changes, a new NARS form shall be used to notify the State within **15 minutes**, following the instructions provided in Step 4.1.4:
- Emergency Classification
 - Protective Action Recommendations. This includes changes to the downwind sector, which would cause a change in the Protective Action Recommendations.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 6 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

- 4.3.2 Follow-up notifications to the Illinois Department of Nuclear Safety (IDNS) shall be made over commercial telephone for an ALERT or higher. For a NOTIFICATION OF UNUSUAL EVENT follow-up notifications will not be made unless requested by the State. For an ALERT or higher, the Individual with Command Authority shall communicate with the State on at least an hourly basis. During fast breaking events, communication with State officials will be more frequent.

The commercial telephone number to use is:

1-217-785-0600 or 1-217-782-6111

- 4.3.3 Follow-up notifications to the NRC shall be made using Attachment 2, REACTOR PLANT EVENT NOTIFICATION WORKSHEET, and shall be made at least **once an hour** following the issuance of the last Event Notification Worksheet. Any change in command authority and the operational status of the emergency response facilities shall be indicated on the event notification worksheet. If, however, the NRC requests that this line be continuously manned, the REACTOR PLANT EVENT NOTIFICATION WORKSHEET does not need to be filled out hourly. Notifications shall then be documented in the Communicator's emergency log.

- 4.3.4 Additional notifications may be made to other offsite organizations by CPS ERO personnel as part of their assigned emergency response duties. Examples of such organizations may include:

- ° Institute of Nuclear Power Operations (INPO)
- ° General Electric Company.
- ° American Nuclear Insurers.

4.4 Termination of Emergency Notifications

IF

conditions sustaining the emergency have been mitigated and there is no further cause to maintain activation of the CPS Emergency Plan

THEN

the individual with command authority may elect to terminate the emergency. Instruct the Shift Manager's designee or the appropriate facility personnel to commence notifying the individuals, agencies, and organizations that have been notified previously that the emergency is terminated and their support and response is no longer needed.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
PAGE: 7 of 7

TITLE: EMERGENCY PLAN NOTIFICATION

5.0 REFERENCES

- 5.1 CPS Emergency Plan, Sections 2.6.1, 3.2.7.2, 4.3.2.1, and Figure 2-5.
- 5.2 EPIP FC-03, NOTIFICATION OF UNUSUAL EVENT
- 5.3 EPIP EC-04, ALERT
- 5.4 EPIP EC-05, SITE AREA EMERGENCY
- 5.5 EPIP EC-06, GENERAL EMERGENCY
- 5.6 PSO-029, EMERGENCY SECURITY NOTIFICATIONS
- 5.7 CR 1-99-01-024

6.0 ATTACHMENTS

- 1. NUCLEAR ACCIDENT REPORTING SYSTEM FORM
- 2. EVENT NOTIFICATION WORKSHEET
- 3. ERO/OCA NOTIFICATION CHECKLIST
- 4. EMERGENCY RESPONSE ORGANIZATION NOTIFICATION SYSTEM OPERATING INSTRUCTIONS

7.0 FORMS

- 1. STATE AND NRC NOTIFICATIONS CHECKLIST

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
ATTACHMENT: 1
PAGE: 1 of 2

NUCLEAR ACCIDENT REPORTING SYSTEM FORM

(UTILITY FORM)

UTILITY MESSAGE NO. _____ STATE OF ILLINOIS STATE MESSAGE NO. _____
NUCLEAR ACCIDENT REPORTING SYSTEM FORM

AUGUST 1994

1. **STATUS**
[A] ACTUAL
[B] EXERCISE
[C] DRILL
[D] TERMINATION
2. **STATION**
[A] DRESDEN [E] BYRON
[B] LASALLE [F] BRAIDWOOD
[C] QUAD CITIES [G] CLINTON
[D] ZION
3. **ON-SITE ACCIDENT CLASSIFICATION**
[A] UNUSUAL EVENT [D] GENERAL EMERGENCY
[B] ALERT [E] RECOVERY
[C] SITE AREA EMERGENCY [F] NOT APPLICABLE
4. **ACCIDENT CLASSIFIED** **ACCIDENT TERMINATED**
TIME: _____ TIME: _____
DATE: _____ DATE: _____
EAL#: _____
5. **RELEASE TO ENVIRONMENT**
[A] NONE
[B] POTENTIAL
[C] OCCURRING
[D] TERMINATED
6. **TYPE OF RELEASE**
[A] NOT APPLICABLE
[B] RADIOACTIVE GAS
[C] RADIOACTIVE LIQUID
7. **WIND DIRECTION:**
FROM _____ (DEGREES)
DOWNWIND SECTOR: _____
8. **WIND SPEED (COMPLETE ONE OF THE FOLLOWING:)**
[A] METERS/SEC.: _____
[B] MILES/HR.: _____
9. **RECOMMENDED ACTIONS**
[A] NONE
[B] PREPARE FOR POSSIBLE ACTION INVOLVING THE PUBLIC
[C] INITIATE PUBLIC NOTIFICATION PROCEDURES
INSTRUCT THE PUBLIC TO TAKE THE FOLLOWING ACTIONS:

SHELTER	EVACUATE	UTILITY ONLY
[D]	[H]	0 - 2 MILE RADIUS
[E]	[I]	0 - ___ MILE RADIUS
[F]	[J]	2 - 5 MILES FOR SECTORS _____
[G]	[K]	5 - 10 MILES FOR SECTORS _____

[L] SHELTER	SUB-AREAS: _____	(STATE USE ONLY)
[M] EVACUATE	SUB-AREAS: _____	(STATE USE ONLY)

- [N] RECOMMEND POTASSIUM IODIDE (KI) IN ACCORDANCE WITH PROCEDURES (STATE USE ONLY)
[O] CONFINE MILK-PRODUCING ANIMALS ON STORED FEED AND PROTECTED WATER OUT TO _____ MILE RADIUS (STATE USE ONLY)
[P] COMMENCE RETURN OF PUBLIC (STATE USE ONLY)
[Q] OTHER _____

10. **ADDITIONAL INFORMATION:** _____

11. **MESSAGE TRANSMITTED BY:** _____
(NAME)

(ORGANIZATION)

(OUTSIDE PHONE NUMBER)

12. **MESSAGE TRANSMITTED:** _____
CURRENT TIME: _____
CURRENT DATE: _____

13. **MESSAGE RECEIVED BY:** _____
(NAME)

(ORGANIZATION)

UTILITY USE ONLY

APPROVED BY: _____

(INITIALS)

(TIME)

OUTSIDE PHONE NUMBERS

		INITIAL ROLL CALL	FINAL ROLL CALL
IEMA	217-782-7880	<input type="checkbox"/>	<input type="checkbox"/>
IDNS	217-785-0000	<input type="checkbox"/>	<input type="checkbox"/>
DeWitt Co. ESOA	217-935-9596	<input type="checkbox"/>	<input type="checkbox"/>
DeWitt Co. Sheriff	217-935-3106	<input type="checkbox"/>	<input type="checkbox"/>

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
ATTACHMENT: 1
PAGE: 2 of 2

NUCLEAR ACCIDENT REPORTING SYSTEM FORM

STATE OF ILLINOIS
NARS FORM

INSTRUCTIONS FOR USE
(UTILITY FORM)

Complete the NARS as follows:

UTILITY MESSAGE NUMBER - For use by Utility personnel only. Number Messages sequentially, starting with 1, for the Event described. Enter "N/A" if this is a State NARS.

STATE MESSAGE NUMBER - Enter State Message Number when receiving a NARS message from the State. Enter "N/A" if this is a Utility NARS

1. STATUS - Check the letter corresponding to the appropriate status description.
2. STATION - Check the letter corresponding to the affected Station.
3. ON-SITE ACCIDENT CLASSIFICATION - Check the letter corresponding to the classification issued by the Utility.
4. ACCIDENT CLASSIFIED - Fill in the time and date at which the most recent accident classification was determined by the Utility. Also fill in the applicable On-Site Emergency Action Level (EAL) code number. Enter "N/A" if this is an accident termination message.
ACCIDENT TERMINATED - Fill in the time and date of the accident termination, if applicable. Enter "N/A" if this is an accident classified message.
5. RELEASE TO ENVIRONMENT - Check the letter corresponding to the appropriate description.
6. TYPE OF RELEASE - Check the letter corresponding to the appropriate release type.
7. WIND DIRECTION - Fill in the direction from which the wind is coming, in degrees.
DOWNWIND SECTOR - Fill in the letter corresponding to the Downwind Sector. Use environmental sampling maps or the following table.

DOWNWIND SECTOR	WIND FROM	WIND FROM DEGREES	DOWNWIND SECTOR	WIND FROM	WIND FROM DEGREES
J	N	349-11	A	S	169-191
K	NNE	12-33	B	SSW	192-213
L	NE	34-56	C	SW	214-236
M	ENE	57-78	D	WSW	237-258
N	E	79-101	E	W	259-281
P	ESE	102-123	F	WNW	282-303
Q	SE	124-146	G	NW	304-326
R	SSE	147-168	H	NNW	327-348

8. WIND SPEED - Fill in the wind speed under meters/second or miles/hour.
9. RECOMMENDED ACTIONS - Check the letter corresponding to the appropriate protective action. Add additional information if [C] is chosen. If recommending shelter or evacuation for letters [F][G][J] or [K], provide the center line sector and at least one sector on each side of center line. Letters [L-P] are for State use only.
10. ADDITIONAL INFORMATION - Provide additional information that will be helpful to personnel evaluating the event (e.g. Unit Number).
11. MESSAGE TRANSMITTED BY - Fill in name, organization and outside phone number of person transmitting the NARS Form information.
12. MESSAGE TRANSMITTED - Fill in the current time and date that the message was transmitted by the person listed in step 11.
13. MESSAGE RECEIVED BY - Fill in name and organization of person receiving the NARS message and filling out the NARS Form.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
ATTACHMENT: 2
PAGE: 1 of 2

REACTOR PLANT EVENT NOTIFICATION WORKSHEET

NRC FORM 361 (12-2000)				U.S. NUCLEAR REGULATORY COMMISSION OPERATIONS CENTER			
REACTOR PLANT EVENT NOTIFICATION WORKSHEET						EN #	
NRC OPERATION TELEPHONE NUMBER: PRIMARY -- 301-816-5100 or 800-532-3469*, BACKUPS -- [1st] 301-951-0550 or 800-449-3694*, [2nd] 301-415-0550 and [3rd] 301-415-0553 *Licensees who maintain their own ETS are provided these telephone numbers.							
NOTIFICATION TIME		FACILITY OR ORGANIZATION		UNIT	NAME OF CALLER		CALL BACK #
EVENT TIME & ZONE		EVENT DATE	POWER/MODE BEFORE			POWER/MODE AFTER	
EVENT CLASSIFICATIONS				1-Hr. Non-Emergency 10 CFR 50.72(b)(1)		(v)(A) Safe S/D Capability	
GENERAL EMERGENCY		GEN/AEC	TS Deviation		ADEV	(v)(B) RHR Capability	
SITE AREA EMERGENCY		SIT/AEC	4-Hr. Non-Emergency 10 CFR 50.72(b)(2)		(v)(C) Control of Rad Release		
ALERT		ALE/AEC	(i) TS Required S/D		ASHU	(v)(D) Accident Mitigation	
UNUSUAL EVENT		UNU/AEC	(iv)(A) ECCS Discharge to RCS		ACCS	(xii) Offsite Medical	
50.72 NON-EMERGENCY (see next columns)			(iv)(B) RPS Actuation (scram)		ARPS	(xiii) Loss Comm/Asm/Resp	
PHYSICAL SECURITY (73.71)		DDDD	(xi) Offsite Notification		APRE	60-Day Optional 10 CFR 50.73(a)(1)	
MATERIAL/EXPOSURE		B???	8-Hr. Non-Emergency 10 CFR 50.72(b)(3)		Invalid Specified System Actuation		
FITNESS FOR DUTY		FFIT	(ii)(A) Degraded Condition		ADEG	Other Unspecified Requirement (Identify)	
OTHER UNSPECIFIED REQMT (see last column)			(ii)(B) Unanalyzed Condition		AUNA		
INFORMATION ONLY		NNF	(iv)(A) Specified System Actuation		AESF		
DESCRIPTION							
Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. (Continue on back)							
NOTIFICATIONS		YES	NO	WILL BE			
NRC RESIDENT				ANYTHING UNUSUAL OR NOT UNDERSTOOD? <input type="checkbox"/> YES (Explain above) <input type="checkbox"/> NO			
STATE(s)				DID ALL SYSTEMS FUNCTION AS REQUIRED? <input type="checkbox"/> YES <input type="checkbox"/> NO (Explain above)			
LOCAL							
OTHER GOV AGENCIES							
MEDIA/PRESS RELEASE							
				MODE OF OPERATION DATE CORRECTED	ESTIMATED RESTART DATE	ADDITIONAL INFO ON BACK <input type="checkbox"/> YES <input type="checkbox"/> NO	

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: EC-07
REVISION: 12
ATTACHMENT: 2
PAGE: 2 of 2

REACTOR PLANT EVENT NOTIFICATION WORKSHEET

ADDITIONAL INFORMATION

PAGE 2 OF 2

RADIOLOGICAL RELEASES: CHECK OR FILL IN APPLICABLE ITEMS (specific details/explanations should be covered in event description)						
LIQUID RELEASE	GASEOUS RELEASE	UNPLANNED RELEASE	PLANNED RELEASE	ONGOING	TERMINATED	
MONITORED	UNMONITORED	OFFSITE RELEASE	T. S. EXCEEDED	RM ALARMS	AREAS EVACUATED	
PERSONNEL EXPOSED OR CONTAMINATED		OFFSITE PROTECTIVE ACTIONS RECOMMENDED			*State release path in description	
	Release Rate (Ci/sec)	% T. S. LIMIT	HOO GUIDE	Total Activity (Ci)	% T. S. LIMIT	HOO GUIDE
Noble Gas			0.1 Ci/sec			1000 Ci
Iodine			10 uCi/sec			0.01 Ci
Particulate			1 uCi/sec			1 mCi
Liquid (excluding tritium and dissolved noble gases)			10 uCi/min			0.1 Ci
Liquid (tritium)			0.2 Ci/min			5 Ci
Total Activity						
	PLANT STACK	CONDENSER/AIR EJECTOR	MAIN STEAM LINE	SG BLOWDOWN	OTHER	
RAD MONITOR READINGS						
ALARM SETPOINTS						
% T. S. LIMIT (if applicable)						
RCS OR SG TUBE LEAKS: CHECK OR FILL IN APPLICABLE ITEMS: (specific details/explanations should be covered in event description)						
LOCATION OF THE LEAK (e.g., SG #, valve, pipe, etc.)						
LEAK RATE	UNITS: gpm/gpd	T. S. LIMITS	SUDDEN OR LONG-TERM DEVELOPMENT			
LEAK START DATE	TIME	COOLANT ACTIVITY AND UNITS:	PRIMARY	SECONDARY		
LIST OF SAFETY RELATED EQUIPMENT NOT OPERATIONAL						
EVENT DESCRIPTION (Continued from front)						

ERO/OCA NOTIFICATION CHECKLIST

1. Activate the ERO Notification System. Select the scenario appropriate for the classification and the time of day. Specific operating instructions are provided in EC-07, Attachment 4.
2. Verify calls are being processed on the ERO Notification System.
3. If the emergency classification was NOTIFICATION OF UNUSUAL EVENT (NOUE) then confirm the SAS pager was activated by the ERO Notification System. If the SAS pager failed to activate, activate the pager manually and/or activate the process manually, and verify inbound calls are being received from other pager holders. Manual notification should be initiated if inbound calls are not being received.
4. If the emergency classification was AI ERT or higher OR the individual with command authority directed activation of the entire ERO, confirm ERO pagers were automatically activated by the ERO Notification System. If the group page failed to activate, manually activate the group page using the instructions in the SAS key box.
5. Ensure a gai-tronics announcement of the emergency classification has been completed to notify personnel in the protected area. DO NOT REPEAT if the individual with command authority has already completed this announcement.
6. Activate the OCA Notification System by following the instructions in the SAS and make an announcement of the emergency classification.
7. Make an announcement of the emergency classification on the CPS Maintenance Radio frequency.
8. Within 5 minutes of activating the ERO Notification System review the printout to verify pager personnel are being contacted and positions are being filled to ensure the ERO Notification System is functioning properly.
9. Continue to obtain printouts to verify the remaining ERO positions are being filled.
10. Should the ERO Notification System malfunction, notify ERO personnel manually in the order shown on the ERO Notification Log.
11. Should the OCA Notification System malfunction, personnel in the OCA may be notified by telephone or by making manual announcements inside of buildings in the OCA. Work Support personnel may be utilized to complete these announcements if they are on site. Normal work hours for Work Support personnel are 0700 - 2300 on weekdays, excluding holidays.
12. Inform the Individual with Command Authority when notifications are complete. This may be accomplished through the Station Security Coordinator in the Technical Support Center.

**EMERGENCY RESPONSE ORGANIZATION NOTIFICATION SYSTEM
OPERATING INSTRUCTIONS**

Activation of the SAS "ERONS"

1. Type Password (displayed on SAS ERONS monitor) and press ENTER.
2. Verify the next screen that appears is the MAIN MENU.
3. Verify that EXECUTION is highlighted, and hit ENTER.
4. Use the down arrow key and highlight SCENARIO CONTROL, and hit ENTER.
5. Utilize the down arrow key to highlight the applicable scenario, and hit ENTER.
6. This will bring up the OPTIONS BOX, use the down arrow key to highlight EDIT MODIFIABLE SCENARIO DATA, and hit ENTER.
7. This will bring up the Scenario Data screen the only item that gets changed on this screen is the highlighted box on the left upper part of the screen. This is where you classify the emergency, test, and/or drill. This is done by using the spacebar. When the spacebar is hit it will change the classification.
8. Once you have the correct classification you hit the F10 key. After you hit this key, it saves whatever was highlighted and takes you back to the SCENARIO CONTROL screen to the OPTIONS BOX. Use the down arrow key to highlight START THIS SCENARIO.
9. This will bring up the CONFIRM SELECTION box, hit Y then hit ENTER. This will activate the scenario.

NOTE: Instead of the system running reports at 5 minute and 10 minute intervals, it only runs a report at the completion of the scenario.

At times, when you go to exit out of the MAIN MENU screen, it might take you to the C: prompt. If this happens, at the C: prompt type ENSTART and hit ENTER. This will take you to the PASSWORD screen.

EMERGENCY RESPONSE ORGANIZATION NOTIFICATION SYSTEM OPERATING INSTRUCTIONS

Activation of the NSB "ERONS"

1. Dial 1-877-827-7376.
2. As soon as the message starts, type in the password (displayed on SAS ERONS monitor). If you do not get the password typed in right away you will have to start over again.
3. The next prompt is to "enter the scenario number" you wish to work with. You get this list from PSO-029. If it is scenarios one through nine you must place a zero in front of the other number, i.e., 03 followed by "#" sign.
4. The next prompt is to verify the scenario number you entered is the one to be activated. "9" for "yes" and "6" for "no".
5. Do you want to queue it? Press "9" for "yes" and "6" for "no".
6. The scenario will be queued as a test. Do you wish to change it? "9" for "yes" and "6" for "no".
7. If you pressed yes then select "1" for emergency, "2" for drill, and "3" for test.
8. You entered "xx", is that correct? "9" for "yes" and "6" for "no".
9. You will queue scenario, as a "x" are you sure this is what you want to do? "9" for "yes" and "6" for "no".
10. No further actions is required at this point. The scenario is building.

To check scenario status or to complete (stop) a scenario in progress:

1. Dial 1-877-827-7376.
2. As soon as the message starts, type in the password. If you do not get the password typed in right away you will have to start over again.
3. The next prompt is to "enter the scenario number" you wish to work with. You get this list from PSO-029. If it is scenarios one through nine you must place a zero in front of the other number, i.e., 03 followed by "#" sign.
4. Enter scenario number you wish to work with.
5. You entered "xx", is that correct? "9" for "yes" and "6" for "no".
6. Selected scenario is active; Press "1" for complete (stop), "2" for suspend (it is recommended that the suspend command is not used), and "3" for exit (press 3 if you were just checking status, the scenario will continue to run).
7. If you pressed one or two you will complete or suspend the scenario. The system will ask "Are you sure this is what you want to do?". Press "9" for "yes" and "6" for "no". (Suspended scenarios remain active and ready to restart at any time).
8. No further action is required at this point. The scenario will be completed or suspended.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: AP-02
REVISION: 15
ATTACHMENT: 3
PAGE: 1 of 1

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: FE-02 OSC OPERATIONS ACN Number: 7/2

Summary of Change: Corrected titles and updated OSC layout attachment. This is an administrative only change.

Reason for Change: Biennial Review.

Replacement Pages: 2 of 5

Att1 pg. 1 of 1

	Signature	Date
Originator:	Greg Birk	7/26/01
Security Manager	<i>Dennis Smith</i>	8/2/01
Concurrence:	NA	
Concurrence:	NA	
Concurrence:	NA	
Independent Reviewer:	<i>Ken Ann</i>	7/28/01
Plant Operations Review Committee: (Needed for Emergency Plan Only)	<i>LG Swales (Sr)</i>	8-2-01
Manager-Clinton Power Station:		

TITLE: OSC OPERATIONS

1.0 INTRODUCTION

The purpose of this procedure is to describe the performance of activities in the Operations Support Center (OSC).

2.0 RESPONSIBILITY

2.1 Individual with command authority - is responsible for the implementation of this procedure.

2.2 Security Manager - is responsible for review of this procedure.

ACN
7/1, 7/2

2.3 Radiation Protection - is responsible for radiological control content.

2.4 Manager-Clinton Power Station - is responsible for the final approval of this procedure.

ACN
7/1, 7/2

3.0 DEFINITIONS

3.1 Operational - The OSC is operational when the OSC Supervisor declares he can support OSC functions.

4.0 INSTRUCTIONS

4.1 Access Control

4.1.1 Upon declaration of an ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY, the Security Supervisor should position security officers at door 36, East Control Room Corridor, and door 37, Southeast entry to the Operations Support Center (OSC) as shown in Attachment 1, OSC/TSC LAYOUT.

4.1.2 Authorized personnel should key card at door 36, obtain an access authorization card from the security officer at the door and proceed to door 37 to enter the OSC/TSC.

NOTE: Key OSC personnel may enter through the normal MCR access.

4.1.3 The security officer at door 37 should ensure all personnel have obtained access authorization cards prior to being allowed to enter the OSC/TSC.

4.1.4 Each person entering the OSC/TSC through door 37 should ensure they pass through a portal monitor. Personnel found to be radiologically contaminated shall remain in the Personnel Holding Area or other designated area for decontamination in accordance with RA-04, PERSONNEL MONITORING AND DECONTAMINATION.

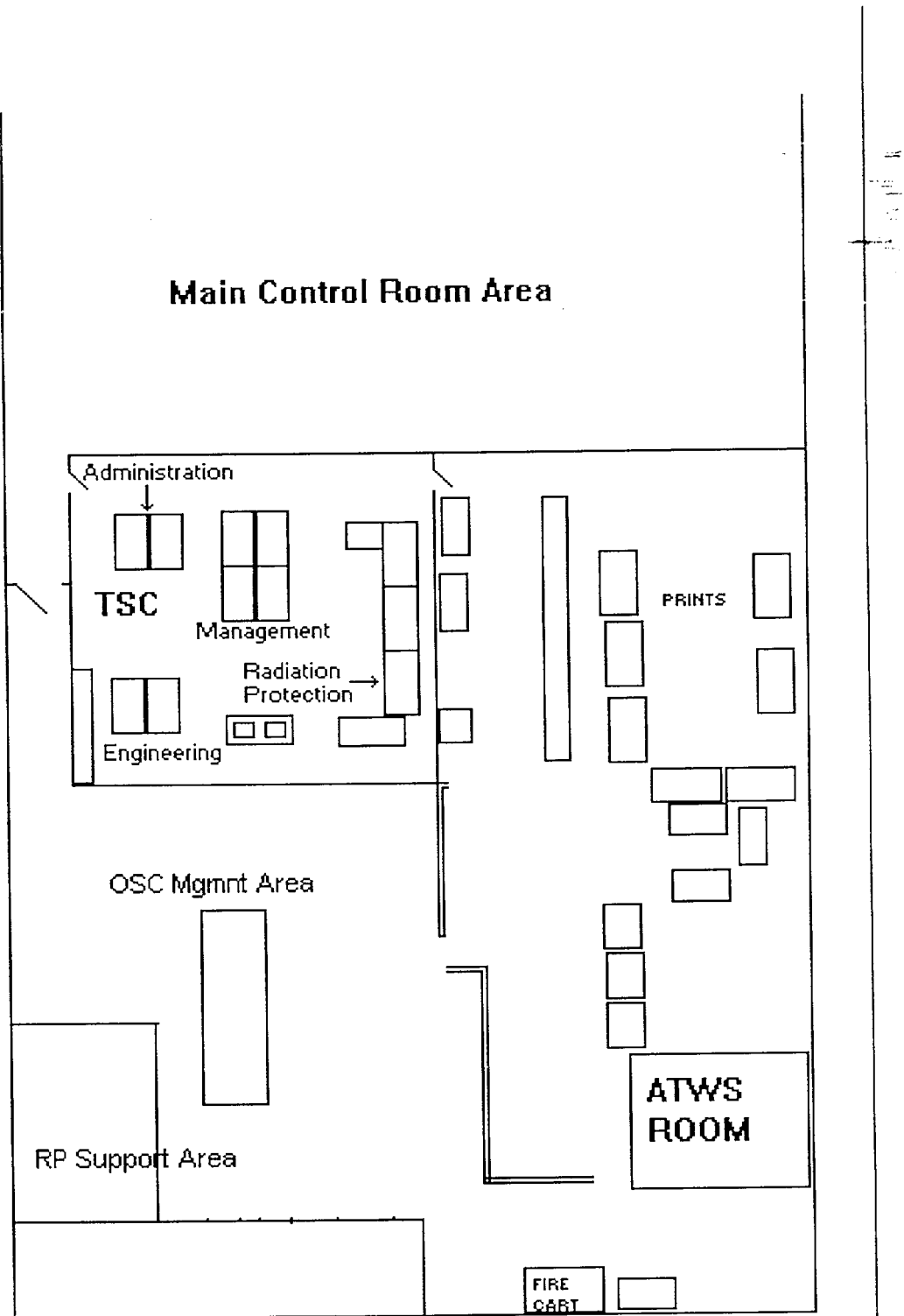
4.2 Personnel Accountability and OSC Security

4.2.1 Personnel entering the OSC for duty should log in on Attachment 2, OSC PERSONNEL MUSTER LOG.

4.2.2 Personnel accountability shall be performed in accordance with EC-10, PERSONNEL ACCOUNTABILITY.

4.2.3 Security of the OSC shall be performed in accordance with EC-09, SECURITY DURING EMERGENCIES.

OSC/TSC LAYOUT



CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: RA-02
REVISION: 5
PAGE: 1 of 6

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

SCOPE OF REVISION: This revision includes updating titles to match the current organization. It also adds more guidance to section 4.2.4 and added new step 4.5.4 for revising Protective Action Recommendations when the wind shifts. This is in response to CR 2-01-07-205. It also includes other small changes which have been made as part of the biennial review. Removed all references to Illinois Power (IP). This revision also incorporates ACN 5/1.

DOCUMENT CONTROL

AUG 15 2001
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CLINTON POWER STATION

Authority

<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by	Greg Birk	8/6/01
Security Manager	<i>James Smith</i>	8/8/01
Concurrence	NA	
Concurrence	NA	
Concurrence	NA	
Independent Reviewer	<i>[Signature]</i>	8/7/01
Manager-Clinton Power Station	<i>[Signature]</i>	8/8/01

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

1.0 INTRODUCTION

The purpose of this procedure is to establish the guidelines to follow for determining Protective Action Recommendations for the public.

2.0 RESPONSIBILITY

- 2.1 Individual With Command Authority - is responsible for issuing Protective Action Recommendations.
- 2.2 Security Manager - is responsible for review of this procedure.
- 2.3 Radiation Protection - is responsible for review of this procedure for radiological control content.
- 2.4 Manager-Clinton Power Station - is responsible for final approval of this procedure.

3.0 DEFINITIONS

- 3.1 Protective Action Recommendation - Recommendation designed to minimize the dose of radiation to the public thereby protecting the public from radiation exposure.
- 3.2 Protective Action Guide (PAG) - is defined as the projected dose to population groups or emergency workers which warrants taking protective action.
- 3.3 General Emergency - is a severe core damage accident or loss of control of facility.

4.0 INSTRUCTIONS

4.1 Initial Assessment

Protective actions are based on plant conditions and dose assessment.

- 4.1.1 For the unique situation in which a GENERAL EMERGENCY is the initiating event, DeWitt County shall be informed via NARS simultaneously with the State.
- 4.1.2 Protective action recommendations are **mandatory** for a GENERAL EMERGENCY and should be given immediately.
- 4.1.3 If a General Emergency and/or core damage is indicated or projected, conduct an immediate assessment of protective measures using Attachment 1, PROTECTIVE ACTION CHART.
- 4.1.4 If a radiological release is already in progress and dose assessment information is not available, use the total stack release rate and the following table to quickly estimate protective action recommendations based on EPA Protective Action Guides (PAGS).

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

TABLE 1

NOTE:

Table 1 does not replace Attachment 1, but is a supplement to it. Use if Dose Assessment Information is not available and a radiological release is in progress.

SPDS Radiological Release Display Total Stack Release Rate (Q) Ci/Sec	Protective Action Recommendation
$Q < 5.1E+1$	Evaluate Attachment 1. Protective actions should be made based on plant conditions.
$5.1E+1 \leq Q < 1.1E+2$	Evacuate 0-2 mile radius and 2-5 miles downwind
$1.1E+2 \leq Q < 2.1E+2$	Evacuate 0-2 mile radius and 2-10 miles downwind and consider shelter for remainder of EPZ
$Q \geq 2.1E+2$	Evacuate 0-5 mile radius and 5-10 miles downwind and consider shelter for remainder of EPZ

4.2 Protective Action Recommendations Based on System Status

- 4.2.1 To make protective action recommendations turn to Attachment 1, PROTECTIVE ACTION CHART.
- 4.2.2 Start at the top of the chart under the category "Actual or Projected Severe Core Damage or Loss of Control of the Facility" i.e., a General Emergency has been declared.
- 4.2.3 Recommendations are made according to the logic chart going straight down the chart until the appropriate protective action recommendation is determined.
- 4.2.4 For severe core damage accident scenarios, protective action recommendations should be given before releases occur and considered in all directions (not just downwind), especially if plume meandering has the potential to impact adjacent sectors. Therefore, the recommendations in the first rectangle includes evacuating a 2-mile radius.

NOTE

When evaluating meteorological data, consider the source of the data. The most accurate data is generated onsite. The least accurate data is from the National Weather Service in Lincoln, Illinois. More conservative protective action recommendations should be considered if less accurate meteorological data is used. The minimum protective action recommendation includes evacuating three downwind sectors 2-5 miles. More sectors may be recommended if wind direction is not constant. In all cases, if a wind shift occurs such that the downwind sector changes, then protective action recommendations shall be updated by adding the affected sectors to the already existing sectors.

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

- 4.2.5 Making protective action decisions based on Containment integrity projection will be difficult, if not impossible. Therefore, for core damage situations in general, evacuation nearby the station should be considered.

4.3 Protective Action Recommendations Based on Dose, Dose Rates or Field Monitoring Data

- 4.3.1 As more detailed information, such as release rates and field sampling data, is obtained dose rates should be calculated.
- 4.3.2 Once dose rates become available, protective action recommendations are made and updated in accordance with Attachment 2, EPA PROTECTIVE ACTION GUIDES.

NOTE:

Since a 2-mile radius will be evacuated upon declaration of a General Emergency, it may be possible no areas beyond this will require evacuation based on exceeding EPA PAG's. Dose Projections should be updated and compared against Attachment 2 to determine if further evacuations are necessary.

- 4.3.3 If the length of the release is unknown and cannot be estimated, use 6 hours as a default time for release duration.
- 4.3.4 For protective action recommendations based on measurements corresponding to offsite dose, those areas where the dose will exceed 1 rem (as defined and recommended in Attachment 2) should be evacuated.

NOTE

Attention should be given to the "Comments" column. There are significant uncertainties associated with dose projections. These uncertainties result from the inherent inaccuracies involved in characterizing source terms, transport, and dispersion. Dose projections are based on greatly simplified models of very complex dispersion conditions. All parties conducting dose assessments should recognize these substantial uncertainties and the limitation of the models being used. Actual dose rates, if available, should be compared with assumptions to provide maximum insights into actual offsite response.

- 4.3.5 Consideration should be given to evacuating any hot spots. These are areas that field monitoring has identified as having significant deposition that results in a greater exposure rate than would be expected based on normal deposition rates.
- 4.3.6 This recommendation will be the one to consider when time is limited. If time permits, the recommendation should be further refined using the guidance in Section 4.4.

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

4.4 More Detailed Protective Action Recommendation Methods

- 4.4.1 The initial protective action recommendation obtained from Attachment 1, PROTECTIVE ACTIONS CHART, should be modified to take into account the CPS evacuation time estimate results table, weather conditions, time of day and time of plume arrival.
- 4.4.2 The Plume Exposure Pathway Emergency Planning Zone evacuation time estimates are provided on Attachment 3, CPS EVACUATION TIME ESTIMATE RESULTS, and should be used to obtain the evacuation time for the sector(s)/Sub-Areas under consideration. Apply time estimates for evacuation in a conservative manner.
- 4.4.3 Next, consideration should be given to plume arrival time in the sector(s) under consideration vs. evacuation time for the sector(s)/Sub-Areas under consideration.
- 4.4.4 Sheltering is important since 77% of the homes in the Great Lakes Area have basements.
- 4.4.5 For brick houses, a shielding factor of 0.4 is obtained for the cloud exposure and 0.05 for ground exposure. For wood houses a factor of 0.6 is obtained for the cloud exposure and 0.05 for ground exposure.
- 4.4.6 At a plume centerline dose of less than 0.5 rem, the risk from evacuation is greater than the risk due to radiation exposure.
- 4.4.7 Under certain circumstances sheltering may be used as a temporary measure when evacuation is recommended, to preclude traveling in the plume.
- 4.4.8 There are some circumstances where shelter will be adequate and no evacuation will be necessary. An example would be where the original recommendation called for evacuation, but after the plume cleared, the average projected total remaining sheltered dose to be received would be insignificant.
- 4.4.9 Evacuation should be carried out so that individuals do not traverse the plume. However, in some situations dose savings may be greater if immediate evacuation is ordered. This determination must be made on a case by case basis.
- 4.4.10 Consider any unusual conditions that might make evacuation dangerous. Among these are severe weather conditions such as blizzards. In cases such as these, sheltering is recommended as the risk of evacuation outweighs the radiation risk.

4.5 Notification of Protective Action Recommendations

- 4.5.1 The recommendations for protective actions shall be given to the State via the NUCLEAR ACCIDENT REPORTING SYSTEM (NARS) FORM which is approved by the individual with Command Authority.

TITLE: PROTECTIVE ACTION RECOMMENDATIONS

- 4.5.2 At the start of an accident, initial recommendations shall be transmitted to offsite authorities in the initial message, even if no protective actions are needed.
- 4.5.3 Protective action recommendations and periodic updates shall be monitored by CPS personnel located in State and DeWitt County emergency facilities and reported to the EOF Emergency Advisor. Conflicts between CPS and State recommendations shall be brought to the attention of the Emergency Manager for resolution.
- 4.5.4 For changes in the Protective Action Recommendation due to shifts in wind direction, the NARS Form shall reflect all previous downwind sectors and any newly added downwind sector.
- 4.5.5 Protective action recommendations may not be delegated and therefore shall be made only by the individual with Command Authority.
- 4.5.6 The recommendations shall also be discussed with the official representative of the State who is present in the EOF.

5.0 REFERENCES

- 5.1 NUREG/CR-2925, "In Plant Considerations for Optimal Offsite Response to Reactor Accidents"; Burke, Heising, Aldrich - November, 1982.
- 5.2 NUREG/CR-1131, "Examination of Offsite Radiological Emergency Protective Measures for Nuclear Reactor Accidents Involving Core Melt"; Aldrich and McGrath - June, 1978.
- 5.3 Public Strategies for Potential Nuclear Reactor Accidents: Sheltering Concepts with Existing Public and Private Structures; Aldrich, Erickson, Johnson - February, 1978.
- 5.4 "Manual of Protective Action Guides and Protective Actions for Nuclear Incidents," EPA 400-R-91-001 - February, 1991, U.S. Environmental Protection Agency.
- 5.5 NUREG/CR-2300 PRA Procedures Guide, Chapter 9, Environmental Transport and Consequence Analysis.
- 5.6 Radioactivity Inventories and Protective Action Guides; James A. Martin paper presented at Health Physics Society Annual Meeting, San Francisco, CA - June, 1976.
- 5.7 CPS Emergency Plan, Section 4.3.2.4.
- 5.8 NUREG-1210 Volumes 2 and 4, Pilot Program: NRC Severe Reactor Accident Incident Response Training Manual.
- 5.9 Sargent and Lundy CPS Shielding Calculation No. PR-35, Rev. 0.

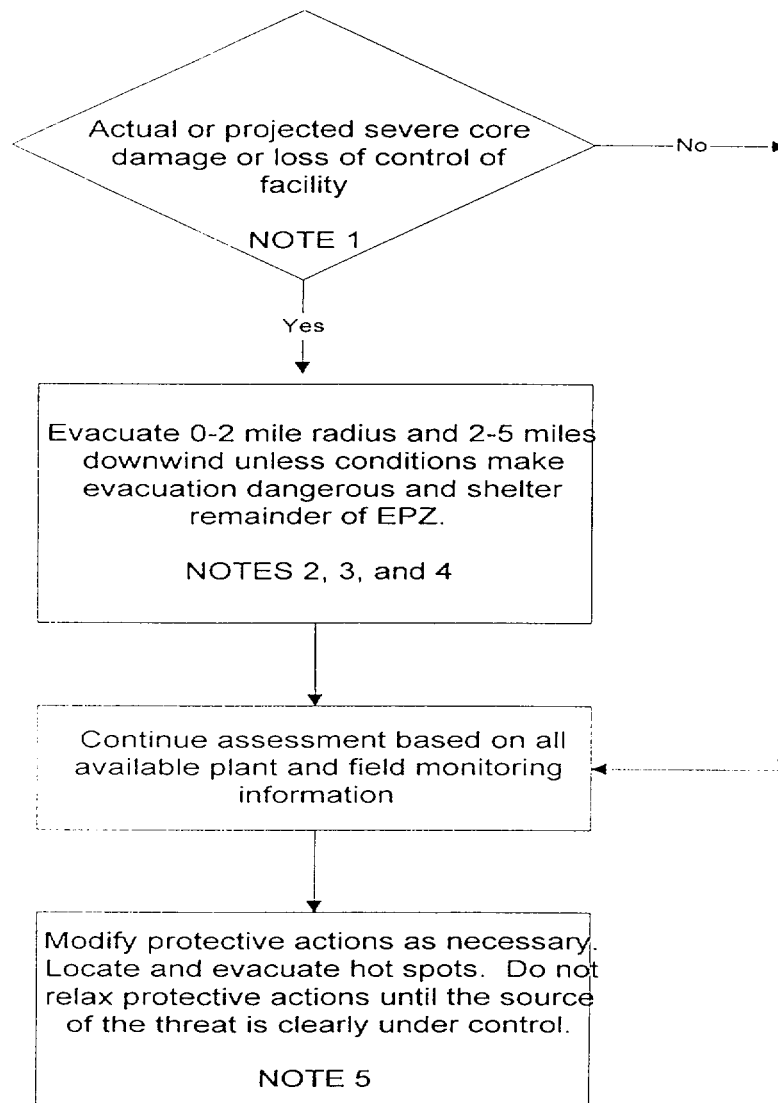
6.0 ATTACHMENTS

- 1. PROTECTIVE ACTION CHART
- 2. EPA PROTECTIVE ACTION GUIDES
- 3. CPS EVACUATION TIME ESTIMATE RESULTS

7.0 FORMS

None

PROTECTIVE ACTION CHART



1. Severe core damage is indicated by (1) loss of critical functions required for core protection (e.g., loss of injection combined with a LOCA), (2) uncovered core or (3) very high radiation levels in area or process monitors (i.e., Containment Radiation Monitor > 12,000 R/hr or Drywell Radiation Monitor > 35,000 R/hr; i.e., any General Emergency Classification).
2. Transit-dependent persons should be advised to remain indoors until transportation resources arrive if possible.
3. If there are very dangerous travel conditions or if there is a mobility impaired population (i.e., acute care patients) then shelter those affected.
4. Shelter may be the appropriate action for controlled releases of radioactive material from the containment if there is assurance that the release is short term (puff release) and the area near the plant cannot be evacuated before plume arrives.
5. Consider EPA PAGs (Attachment 2) based on dose projections of a 6-hour default time. Evacuate areas beyond initial recommendation based on exceeding 1 rem TEDE.

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: RA-02
REVISION: 5
ATTACHMENT: 2
PAGE: 1 of 1

EPA PROTECTIVE ACTION GUIDES

Protective Action	PAG (projected dose)	Comments
Evacuating (or sheltering)	1-5 rem ^b	Evacuation (or, for some situations, sheltering ^a) should normally be initiated at 1 rem. Further guidance is provided in Sections 4.3 and 4.4.
Administration of stable iodine	25 rem ^c	Requires approval of State medical officials.

- a Sheltering may be the preferred protective action when it will provide protection equal to or greater than evacuation, based on consideration of factors such as source term characteristics, and temporal or other site-specific conditions (see Section 4.4).
- b The sum of the effective dose equivalent resulting from exposure to external sources and the committed effective dose equivalent incurred from all significant inhalation pathways during the early phase. Committed dose equivalents to the thyroid and to the skin may be 5 and 50 times larger, respectively.
- c Committed dose equivalent to the thyroid from radioiodine.

DEFINITIONS:

Effective Dose Equivalent (H_T) - The sum of the products of the dose equivalent to the organ or tissue (H_T) and the weighting factors (w_T) applicable to each of the body organs or tissues which are irradiated ($H_E = \sum w_T H_T$).

Committed Effective Dose Equivalent (e_{50}) - The sum of the products of the weighting factors applicable to each of the body organs or tissues which are irradiated and the committed dose equivalent to these organs or tissues ($H_{E,50} = \sum w_T H_{T,50}$).

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: RA-02
REVISION: 5
ATTACHMENT: 3
PAGE: 1 of 2

CPS EVACUATION TIME ESTIMATE RESULTS

Analysis		Evacuation Time In Minutes							
		Fair Weather				Adverse Weather			
		Winter Weekday	Winter Weeknight	Summer Weekday	Summer Weeknight	Winter Weekday	Winter Weeknight	Summer Weekday	Summer Weeknight
1	2-mile ring	170	150	170	150	180	150	180	150
2	2-mile ring + Sectors A,B,C to 5 miles	180	160	180	160	190	160	190	160
3	2-mile ring + Sectors A,B,C to 10 miles	185	160	185	160	200	165	200	165
4	2-mile ring + Sectors B,C,D to 5 miles	180	160	180	160	190	160	190	160
5	2-mile ring + Sectors B,C,D to 10 miles	185	170	185	170	200	175	200	175
6	2-mile ring + Sectors C,D,E to 5 miles	180	160	180	160	190	160	190	160
7	2-mile ring + Sectors C,D,E to 10 miles	185	170	185	170	200	175	200	175
8	2-mile ring + Sectors D,E,F to 5 miles	180	160	180	155	185	160	185	170
9	2-mile ring + Sectors D,E,F to 10 miles	185	170	185	175	200	180	200	185
10	2-mile ring + Sectors E,F,G to 5 miles	180	160	180	160	190	160	190	160
11	2-mile ring + Sectors E,F,G to 10 miles	185	170	185	175	200	180	200	185
12	2-mile ring + Sectors F,G,H to 5 miles	180	160	180	160	190	160	190	170
13	2-mile ring + Sectors F,G,H to 10 miles	185	170	185	170	200	175	200	180
14	2-mile ring + Sectors G,H,I to 5 miles	180	160	180	160	190	160	190	160
15	2-mile ring + Sectors G,H,I to 10 miles	185	170	185	170	200	175	200	180
16	2-mile ring + Sectors H,I,J to 5 miles	170	150	170	150	180	150	180	150
17	2-mile ring + Sectors H,I,J to 10 miles	185	170	185	180	200	175	200	185
18	2-mile ring + Sectors I,J,K to 5 miles	170	150	170	150	180	155	180	160
19	2-mile ring + Sectors I,J,K to 10 miles	185	160	200	185	240	180	250	240
20	2-mile ring + Sectors K,L,M to 5 miles	170	150	170	150	180	155	180	160
21	2-mile ring + Sectors K,L,M to 10 miles	185	160	200	185	240	180	250	240
22	2-mile ring + Sectors L,M,N to 5 miles	170	150	170	150	185	155	200	185
23	2-mile ring + Sectors L,M,N to 10 miles	185	160	200	185	240	180	250	240
24	2-mile ring + Sectors M,N,P to 5 miles	175	150	185	180	225	160	200	235
25	2-mile ring + Sectors M,N,P to 10 miles	185	175	200	185	240	180	250	240
26	2-mile ring + Sectors N,P,Q to 5 miles	170	150	170	150	185	150	200	185
27	2-mile ring + Sectors N,P,Q to 10 miles	185	175	200	185	240	180	250	240
28	2-mile ring + Sectors P,Q,R to 5 miles	170	150	170	150	180	155	180	155
29	2-mile ring + Sectors P,Q,R to 10 miles	185	175	185	180	190	180	185	185

CLINTON POWER STATION
EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: RA-02
REVISION: 5
ATTACHMENT: 3
PAGE: 2 of 2

CPS EVACUATION TIME ESTIMATE RESULTS

Analysis		Evacuation Time In Minutes							
		Fair Weather				Adverse Weather			
		Winter Weekday	Winter Weeknight	Summer Weekday	Summer Weeknight	Winter Weekday	Winter Weeknight	Summer Weekday	Summer Weeknight
30	2-mile ring + Sectors Q,R,A to 5 miles	170	150	170	150	180	155	180	155
31	2-mile ring + Sectors Q,R,A to 10 miles	185	175	185	180	190	180	185	185
32	2-mile ring + Sectors R,A,B to 5 miles	170	150	170	150	180	155	180	155
33	2-mile ring + Sectors R,A,B to 10 miles	185	160	185	155	200	160	200	160
34	5-mile ring	175	160	175	160	190	160	200	185
35	Full EPZ	185	180	200	185	240	185	255	245
36	DeWitt County	185	175	185	185	240	180	250	240
37	Piatt County	185	170	185	175	200	180	200	185
38	Macon County	185	170	185	170	200	175	200	180
39	McLean County	185	160	185	155	200	160	200	160
40	Subarea 1	185	165	185	175	200	175	200	185
41	Subareas 1,2	185	155	185	155	200	165	200	160
42	Subareas 1,3	185	170	185	170	200	175	200	175
43	Subareas 1,4	185	170	190	175	205	175	200	185
44	Subareas 1,5	185	170	185	180	200	175	200	180
45	Subareas 1,6	185	165	200	185	240	180	250	240
46	Subareas 1,7	185	175	200	185	240	180	250	240
47	Subareas 1,8	185	175	180	180	190	180	185	185
48	Subareas 1,2,3	185	170	185	175	200	175	200	185
49	Subareas 1,4,5	185	170	190	180	205	175	200	185
50	Subareas 1,5,6	185	170	200	185	240	180	250	240
51	Subareas 1,2,7,8	185	175	200	185	240	180	250	240
	Apple & Pork Festival				380				530