

**CLINTON POWER STATION  
NUCLEAR SUPPORT  
Controlled Document Distribution List**

**CPS EMERGENCY PLAN IMPLEMENTING PROCEDURES (EPIPS)**

25.	SDC	V-130A	3.	BEOF	V-150
27.	RL	V-455	3A.	BEOF	V-150
56.	IP/SDC/NRC OFFICE	V-130A	183.	JPIC	V-150
62.	RP OFFICE	T-31H	183A.	JPIC	V-150
64.	TSC	T-31B	183B.	JPIC	V-150
64A.	TSC	T-31B	493.	EOF	V-922
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70.	D.L. SMITH	V-922	493C.	EOF	V-922
	c/o A. Oleson				
90.	MIKE KIEL	V-130G	493D.	EOF	V-922
110.	SUPV - CHEMISTRY	T-31C	493F.	EOF	V-922
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262C.	SHIFT SUPERVISOR	T-31B	223.	U.S. NRC	
262D.	REMOTE SHUTDOWN	T-31B		DOC. CONTROL DESK	OS
273.	TRAINING REQUAL	V-922	225/225A.	IDNS (M. SINCLAIR)	OS
273A.	TRAINING REQUAL	V-922	234.	STATE EOC	OS
422.	INSTR - TRAINING	V-374A	235.	M. STRAIN	OS
467.	MEDICAL	V-374B		(DEWITT CO. ESDA)	
502.	MANAGER - CPS	T-31A	238.	D. POWELL (IDNS)	OS
505.	W. L. YAROSZ	V-922	567.	J. FAIROW	OS
542.	CAS	T-31M		(RADIOLOGICAL EP	
544.	SAS	T-31M		MANAGER)	

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**CLINTON POWER STATION**  
**NUCLEAR SUPPORT DEPARTMENT/DOCUMENT CONTROL**  
**Controlled Document Transmittal**

Transmittal No. 00ALSO15 Transmittal Date 1/12/00 Sheet 1 of 1

Letter No. N/A Document Type CONTROLLED DOCUMENTS

The attached documents are being transmitted for your use.

**REMOVE & DESTROY:**

**INSERT:**

**NOTE: All ACN cover pages attached should be read & destroyed. Do not file in EPIP Manual.**

EPIP Status Report presently filed	Same; dated 1/7/00
AP-01 Rev. 5	Same; Rev. 6
AP-06 Rev. 4	Same; Rev. 5 (incorporated ACNs 5/1,5/2)
EC-01 Rev. 6 Pages 2 & 4 (of 8)	Same; noting ACN 7/1
Att. 1 Pg. 1	
Att. 3 Pg. 1	
Att. 4 Pg. 2	
EC-02 Rev. 6 Att. 2 Pg. 18	Same; noting ACN 7/3
Att. 2 Pg. 19	Same; noting ACN 7/2
EC-14 Rev. 3 Pg. 6	Same; noting ACN 4/3
Att. 1 Pg. 1	
Att. 2 Pg. 1	
HQ-01 Rev. 5	N/A - Cancelled effective 12/13/99
MS-03 Rev. 4 Pgs. 3 & 4	Same; noting ACN 5/2
PR-01 Rev. 6 Pgs. 3 thru 7	Same; noting ACN 7/1
Att. 1 Pg. 1	
Att. 3 Pg. 1	
PR-03 Rev. 7	Same; Rev. 8
PR-05 Rev. 6 Pgs. 3 & 4	Same; noting ACN 7/2
RA-01 Rev. 6 Att. 1 Pg. 1	Same; stamped REPLACEMENT (typo)
RA-14 Rev. 5	Same; Rev. 6 (incorporated ACN 6/1)

Please acknowledge receipt of documents by completing transmittal instructions and returning this transmittal to DOCUMENT CONTROL, V-150, by 1/22/00

N/A (Offsite & Trans. Only)

Any questions regarding this transmittal should be forwarded to A. Shaffer, extension 3566.

\_\_\_\_\_  
Signature/Date

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>ADMINISTRATIVE PROCEDURE (AP)</u>					
AP-01	ORGANIZATION & PREPARATION OF CONTROLLED DOCUMENTS	6	12/13/99	n/a	
AP-02	REVISIONS AND ADVANCE CHANGE NOTICES	12	06/24/99	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	8	08/03/99	n/a	
AP-06	REVIEW OF EMERGENCY PREPAREDNESS PROGRAM	5	12/20/99	n/a	
AP-07	ALERT AND NOTIFICATION SYSTEM	6	09/08/94	7/1, 7/2	04/08/97, 11/02/99
	F-01 ANS Test Report	1	09/30/94	n/a	
	F-02 Siren Maintenance/Repairs Report	1	09/30/94	n/a	
AP-09	EMERGENCY FACILITY AND EQUIPMENT CHECKS	5	03/17/95	6/1, 6/2	04/08/97, 05/29/98
AP-10	EMERGENCY RESPONSE ORGANIZATION ASSIGNMENTS	7	01/16/97	n/a	

DOCUMENT CONTROL

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223  
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CLINTON POWER STATION

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>EMERGENCY CONTROL (EC)</u>					
EC-01	CPS EMERGENCY RESPONSE ORGANIZATION & STAFFING	* 6	07/12/99	7/1	12/13/99
F-01	Interim Station Emergency Director	* 3	10/23/97	4/1	05/29/98
F-02	Station Emergency Director (SED)	* 3	04/21/99	4/1	07/27/99
F-03	SED Administrative Support	* 1	05/29/98	n/a	
F-04	TSC Administrative Supervisor	* 2	10/23/97	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	* 2	11/23/93	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 Nuclear 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	* 4	04/21/99	n/a	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-17	Radiological Engineering Specialist	* 1	11/23/93	n/a	
F-18	TSC Computer Operator (RP)	* 1	07/27/99	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	n/a	
F-22	In-station Emergency Teams	* 0	07/28/92	n/a	
F-23	OSC Radiological Controls Coordinator	* 0	07/28/92	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	* 2	02/06/97	3/1	06/01/98
F-30	EOF Director	* 3	03/05/97	n/a	
F-31	Executive Administrative Support	* 1	06/01/98	n/a	
F-32	Licensing Advisor	* 0	07/28/92	n/a	
F-33	EOF Emergency Advisor	* 2	10/18/96	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	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-39	Radiation Protection Supervisor	* 1	10/18/93	n/a	
F-40	EOF Administrative Supervisor	* 1	12/10/93	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	* 1	12/10/93	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	* 2	12/01/93	3/1	06/25/94
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	* 0	07/28/92	n/a	
F-56	Word Processor	* 0	07/28/92	n/a	
F-57	EOF Computer Operator	* 4	09/02/99	n/a	
F-58	Mechanical/Nuclear Engineer	* 0	07/28/92	n/a	

\* indicates safety screening not required

STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
F-59	EOF Electrical Engineer	* 0	07/28/92	n/a	
F-60	Core Damage Assessor	* 0	07/28/92	n/a	
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	* 0	07/28/92	n/a	
F-66	EOF Access Control Coordinator	* 1	10/26/93	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	5	01/02/97	n/a	
EC-04	ALERT	4	01/02/97	n/a	
EC-05	SITE AREA EMERGENCY	4	01/02/97	5/1	10/23/97

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
EC-06	GENERAL EMERGENCY	4	01/02/97	5/1	10/23/97
EC-07	EMERGENCY PLAN NOTIFICATION	10	02/06/97	11/1, 11/2, 11/3	08/05/97, 08/21/98, 03/26/99
	F-01 State and NRC Notifications Checklist	0	02/06/97	n/a	
EC-08	NON-ESSENTIAL PERSONNEL EVACUATION	7	07/17/98	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	6	10/23/97	n/a	
EC-11	REENTRY	* 4	08/03/99	n/a	
EC-12	EMERGENCY TEAMS	6	02/08/99	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	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>FACILITIES AND EQUIPMENT (FE)</u>					
FE-01	TSC OPERATIONS	6	06/09/97	7/1	01/12/99
FE-02	OSC OPERATIONS	6	06/09/97	7/1	07/23/99
FE-03	EOF OPERATIONS	5	06/09/97	6/1	04/21/99
FE-04	BEOF OPERATIONS	5	06/09/97	6/1	07/23/99
FE-05	EMERGENCY EQUIPMENT & SUPPLIES	11	05/26/97	n/a	
F-02	OSC Emergency Equipment	3	03/25/99	n/a	
F-03	EOF Emergency Equipment	3	07/22/97	n/a	
F-04	BEOF Emergency Equipment	0	04/28/92	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	1	07/22/97	n/a	
F-08	Hospital Kit	1	10/07/97	n/a	
F-09	Decontamination Kit	2	10/16/94	n/a	
F-10	TSC Administrative Supplies	3	02/26/97	n/a	
F-11	OSC Administrative Supplies	0	04/28/92	n/a	
F-12	OSC Maintenance Tool Box	2	05/29/98	n/a	
F-13	First Aid Kit (Trauma Kit)	1	05/29/98	n/a	
F-14	EOF Administrative Supplies	1	10/16/94	n/a	
F-15	BEOF Administrative Supplies	0	04/28/92	n/a	
F-16	JPIC Administrative Supplies	1	02/06/97	n/a	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
	F-17 EOP/RSP Supply Kit	4	09/30/99	n/a	
	F-18 EOP MCR Tool Bag	0	10/16/94	n/a	
FE-06	EMERGENCY COMMUNICATIONS EQUIPMENT	4	06/04/92	5/1, 5/2, 5/3	10/06/93, 03/05/97, 04/08/97

MISCELLANEOUS (MS)

MS-01	TRANSPORTATION ACCIDENTS	4	10/13/97	n/a	
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	* 3	07/12/99	n/a	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
<u>PUBLIC RELATIONS (PR)</u>					
PR-01	JOINT PUBLIC INFORMATION CENTER ORGANIZATION & STAFFING	6	02/06/97	7/1	12/13/99
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	2	02/06/97	n/a	
F-06	JPIC Graphic Support Checklist	0	07/28/92	n/a	
F-07	IP Public Information Officer Checklist	1	02/06/97	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	JPIC IP PIO Steno Checklist	1	07/06/93	n/a	
F-16	JPIC Telefax Operator Checklist	0	07/28/92	n/a	

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STATUS REPORT

NUMBER	EPIP TITLE	REVISION	DATE	ACN'S	ACN DATE
	F-17 JPIC Registration Staff Checklist	0	07/28/92	n/a	
PR-03	PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION	8	12/13/99	n/a	
PR-05	PUBLIC INFORMATION & EDUCATION	6	08/09/96	7/1, 7/2	02/03/99, 12/13/99

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	4	08/20/96	5/1	01/15/99
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	5	06/03/96	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	6	08/03/99	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 DOSE ASSESSMENT	5	08/03/99	n/a	
RA-17	RADIOLOGICAL CONTROL OF THE EOF	8	08/30/99	n/a	
RA-18	EOF ENVIRONMENTAL LAB OPERATIONS	4	08/03/99	n/a	

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TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

SCOPE OF REVISION: This revision corrects the titles for review and approval of this procedure. This revision also addresses the change in format for Emergency Preparedness Documents with the transition from Illinois Power Company to AmerGen.

DOCUMENT CONTROL

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223  
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Authority

	<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by		Wk Yaross	10/28/99
Director-Security & Emergency Planning		Dennis Smith	11/1/99
Concurrence		NA	
Concurrence		NA	
Concurrence		NA	
Independent Reviewer		Ku En	10/28/99
Facility Review Group		W.M. Quinn	12/10/99
Manager-Clinton Power Station		[Signature]	12/13/99
Approval/Effective Date		Nary Boh	12/13/99

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

CONTENTS

- 1.0 INTRODUCTION
- 2.0 RESPONSIBILITY
- 3.0 DEFINITIONS
- 4.0 INSTRUCTIONS
  - 4.1 General
  - 4.2 Emergency Plan
  - 4.3 Implementing Procedures
  - 4.4 Nuclear Emergency Response Manual
  - 4.5 Language
  - 4.6 Figures, Tables, and Graphs
  - 4.7 Changes to Documents
- 5.0 REFERENCES
- 6.0 ATTACHMENTS
- 7.0 FORMS

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

## 1.0 INTRODUCTION

### 1.1 Purpose

The purpose of this Implementing Procedure is to provide guidance for organizing and preparing the Clinton Power Station (CPS) Emergency Plan, Implementing Procedures and the Nuclear Emergency Response Manual.

### 1.2 Scope

The scope of this Implementing Procedure is limited to guidance for organizing and preparing the CPS Emergency Plan, Implementing Procedures (excluding Emergency Operating Procedures) and the Nuclear Emergency Response Manual.

### 1.3 Applicability

The applicability of this Implementing Procedure is to anyone involved in the preparation of the CPS Emergency Plan, Implementing Procedures, and the Nuclear Emergency Response Manual.

## 2.0 RESPONSIBILITY

2.1 Manager-Nuclear Support - is responsible for the approval of this procedure.

2.2 Director-Security and Emergency Planning - is responsible for review and implementation of this procedure.

## 3.0 DEFINITIONS

3.1 Emergency Plan Implementing Procedure (EPIP) - Specific procedures to implement the activities and responsibilities outlines in the CPS Emergency Plan.

3.2 Nuclear Emergency Response Manual - An emergency response reference manual.

3.3 Controlled Document - An Emergency Preparedness Program document that is assigned a unique number and assigned to a particular individual or emergency response facility.

3.4 Approved - Term used to denote that a document has been through an approval process and is authorized for issuance and use until officially cancelled or revised.

3.5 Should - Word which denotes that an action is recommended.

3.6 Shall - Word which denotes that an action is required.

3.7 May - Word used to denote permission - neither a requirement nor a recommendation.

3.8 Emergency Preparedness Program - The Clinton Power Station program which coordinates the plans, procedures, equipment and facilities, and ensures trained emergency response personnel and other resources are prepared for responding to an emergency at CPS.



TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

#### 4.0 INSTRUCTIONS

##### 4.1 General

There are various administrative controls which need to be established to ensure that the CPS Emergency Plan, Emergency Plan Implementing Procedures, and the Nuclear Emergency Response Manual are maintained up-to-date. To accomplish this the CPS Emergency Plan, Implementing Procedures, and the Nuclear Emergency Response Manual are Controlled Documents and are identified as follows:

##### 4.1.1 Clinton Power Station Emergency Plan

##### 4.1.2 Emergency Plan Implementing Procedures

- 4.1.2.1 AP - Administrative Procedures
- 4.1.2.2 EC - Emergency Control Procedures
- 4.1.2.3 FE - Facilities and Equipment Procedures
- 4.1.2.4 RA - Radiological Assessment Procedures
- 4.1.2.5 MS - Miscellaneous Procedures
- 4.1.2.6 HQ - Headquarters Procedures
- 4.1.2.7 PR - Public Relations Procedures

##### 4.1.3 Nuclear Emergency Response Manual

#### 4.2 Emergency Plan

##### 4.2.1 Organization

The CPS Emergency Plan shall contain a Title Page, Table of Contents, List of Effective Pages, List of Figures, List of Tables and Appendices in addition to the Plan text.

##### 4.2.2 Format

The general format of the CPS Emergency Plan is as outlined in Attachment 1, CPS EMERGENCY PLAN ORGANIZATION AND FORMAT.

- 4.2.2.1 All pages within the body of the CPS Emergency Plan should bear the following heading which should be centered at the top of each page:

CLINTON POWER STATION  
EMERGENCY PLAN

- 4.2.2.2 Each page of text (excluding Figures, and Tables) should be sequentially numbered within each chapter and appear centered at the bottom of each page. An example of the numbering scheme is 2-18 where 2 is the chapter number and 18 is the page number within that chapter.

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

- 4.2.2.3 Each page shall bear the current revision number, and be located in the lower right hand corner of each page.
- 4.2.2.4 Figures and tables should be placed at the end of each chapter in which they are referenced and be sequentially numbered with the chapter number followed by the number denoting its order of first reference in the text. For example, the first figure for Chapter 2 would be Figure 2-1. This number should be placed above the appropriate title of each figure and table and below the page heading.

### 4.3 Implementing Procedures

#### 4.3.1 Organization

- 4.3.1.1 Each Emergency Plan Implementing Procedure (EPIP) should contain a signature concurrence and approval title page similar to the one used for this EPIP and contain any appropriate Attachments as part of the procedure.
- 4.3.1.2 Forms for Emergency Plan Implementing Procedures should also contain a signature concurrence and approval title page similar to the one used for this EPIP with the following exception:
  - The title of the form shall be listed on the title page.
  - On the right side of the header, underneath the word "PROCEDURE", should appear the word "FORM" followed by the number of the appropriate form.

4.3.2 The format of EPIP's shall be by sections, as follows:

Section	Contents
1.0	INTRODUCTION
2.0	RESPONSIBILITY
3.0	DEFINITIONS
4.0	INSTRUCTIONS
5.0	REFERENCES
6.0	ATTACHMENTS
7.0	FORMS

- 4.3.2.2 The INTRODUCTION section briefly explains the purpose, scope and applicability for the EPIP, is capitalized and is underlined.
- 4.3.2.3 The RESPONSIBILITY section identifies who is responsible for actions required under the EPIP, is capitalized and is underlined.
- 4.3.2.4 The DEFINITIONS section provides brief definitions for key terms used in the EPIP, is capitalized and is underlined.

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

- 4.3.2.5 The INSTRUCTIONS section details how the EPIP is to be performed, is capitalized and is underlined. These step-by-step instructions should be as concise as possible.
- a. The use of "IF" and "THEN" statements are encouraged, where appropriate.
  - b. Figures and Tables used as Procedure Attachments should be referenced in the Procedure and sequentially numbered appropriately.
  - c. Forms used to implement procedure instructions should be referenced in the procedure and sequentially numbered.
- 4.3.2.6 The REFERENCES section should identify other EPIP's as well as other documents, which may be useful to the user, be capitalized and is underlined. It should provide references to the section(s) of the CPS Emergency Plan it is implementing, whenever possible.
- 4.3.2.7 The ATTACHMENTS section should list, in numerical order, the attachments to the EPIP. The word "ATTACHMENT" is capitalized and is underlined. This may include figures, tables and graphs, etc.
- 4.3.2.8 The FORMS section should list in numerical order the forms to the EPIP. The word "FORMS" is capitalized and is underlined.

4.3.3 Pagination

- 4.3.3.1 Each page of an EPIP should be sequentially numbered. For example, the Title Page should read "PAGE: 1 OF X" where X is the total number of pages in the EPIP not including Attachments or Forms. This EPIP should be used as an example.
- 4.3.3.2 Each page of an Attachment should be numbered in the form "PAGE: X OF Y" where X is the sequential number of the page within the Attachment and Y is the total number of pages of the Attachment. The Attachment number and page number should appear in the upper right corner of the page. Attachment 1 of this procedure may be used as an example.
- 4.3.3.3 Each page of a form should be numbered in the form "PAGE: X of Y" where X is the sequential number of the page within the Form and Y is the total number of pages of the Form. The Form number and page number should appear in the upper right corner of the page.

4.3.4 Revisions

Each page of an EPIP shall have the appropriate revision number identified in the upper right hand corner. This EPIP should be used as an example. Revisions to EPIP's shall be marked with bars in the right margin indicating where changes have been made as specified in EPIP AP-02, REVISIONS AND ADVANCE CHANGE NOTICES.

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

4.4 Nuclear Emergency Response Manual

4.4.1 Organization

The Nuclear Emergency Response Manual should contain an index, a communications directory, any applicable procedures and other useful references. It may also contain Emergency Response Guidelines.

4.5 Language

4.5.1 General

The language for use in the CPS Emergency Plan, Implementing Procedures, and the Nuclear Emergency Response Manual should be kept as simple and concise as possible while avoiding ambiguous statements. The simplest, most familiar and specific words that accurately convey the intended meaning should be used. Vague words, slang, local jargon, or abbreviations that might be misunderstood and are undefined are to be avoided.

4.5.2 If/Then

Logic terms, including "if/then" statements, are often necessary to precisely describe a set of conditions or sequence of action. When logic statements are used, it is important that logic terms be highlighted so that all the contingencies are clear to the user. Highlighting or emphasis can be achieved using capitalization, underlining, spatial isolation, or a combination of the three.

4.5.3 Shall/Should

The word "shall" is used to denote that the item is required, the word "should" denotes a recommendation. It is important that sentences be written with the correct verb form.

4.6 Figures, Tables and Graphs

Figures, tables, and graphs should be positioned on 8½ x 11 inch paper with a 3/4" margin on the 3-hole punch side. The information displayed should be in black ink or type (capable of Xerographic reproduction). Figures, tables, and graphs should be understandable without reference to the text. They shall also be denoted by an appropriate title. Extensive or large figures, tables, and graphs that may lose definition and resolution through reduction to 8½ x 11 may be provided in numerically or logically successive pages obviously keyed to each other and appropriately paginated.

4.7 Changes to Documents

4.7.1 Document Coordination

Emergency Planning shall coordinate the development, revisions and changes to the CPS Emergency Plan, Implementing Procedures, and the Nuclear Emergency Response Manual.

TITLE: ORGANIZATION AND PREPARATION OF CONTROLLED DOCUMENTS

4.7.2 Document Changes

Changes may be made to the CPS Emergency Plan, Implementing Procedures, and the Nuclear Emergency Response Manual. The process for making these changes is detailed in AP-02, REVISIONS AND ADVANCE CHANGE NOTICES.

5.0 REFERENCES

- 5.1 AP-02, REVISIONS AND ADVANCE CHANGE NOTICES
- 5.2 Corporate Nuclear Procedure 4.03, EMERGENCY PREPAREDNESS PROGRAM
- 5.3 CPS Emergency Plan, Section 5.2, "Emergency Plan, Implementing Procedures and Supporting Documents"

6.0 ATTACHMENTS

- 1. CPS EMERGENCY PLAN ORGANIZATION AND FORMAT.

7.0 FORMS

None

CPS EMERGENCY PLAN  
ORGANIZATION AND FORMAT

Title Page

Table of Contents

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1.0 INTRODUCTION

2.0 ORGANIZATIONAL CONTROL

3.0 EMERGENCY RESPONSE FACILITIES AND EQUIPMENT

4.0 EMERGENCY CLASSIFICATIONS, ASSESSMENT, AND RESPONSE ACTIONS

5.0 MAINTAINING EMERGENCY PREPAREDNESS

6.0 REFERENCES

APPENDICES

TITLE: REVIEW OF EMERGENCY PREPAREDNESS PROGRAM

SCOPE OF REVISION: Corrects titles due to recent organizational changes. Added use of CPS Comment Control Form. Removes Illinois Power from headers. This revision also serves as the biennial review. This revision also incorporates ACNs 5/1 and 5/2.

DOCUMENT CONTROL

JAN 12 2000

223  
CONTROLLED COPY  
CLINTON POWER STATION

Authority

<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by	<i>W. L. [Signature]</i>	12/6/99
Director-Security and Emergency Planning	<i>Dennis Smith</i>	12/13/99
Concurrence	NA	
Concurrence	NA	
Concurrence	NA	
Independent Reviewer	<i>[Signature]</i>	12/14/99
Facility Review Group	<i>[Signature]</i>	12/14/99
Manager-Clinton Power Station	<i>[Signature]</i>	12/15/99
Approval/Effective Date	<i>Dennis Smith</i>	12/20/99

TITLE: REVIEW OF EMERGENCY PREPAREDNESS PROGRAM

1.0 INTRODUCTION

The purpose of this procedure is to ensure:

- That the CPS Emergency Plan and its associated implementing procedures are reviewed in accordance with CNP 4.03, EMERGENCY PREPAREDNESS PROGRAM.
- That revisions are made to correct any inadequacies that may have been identified during such review, and
- That current practices and policies maintain a high degree of readiness and safety.

2.0 RESPONSIBILITY

- 2.1 Director-Security and Emergency Planning - is responsible for ensuring the implementation and review of this procedure.
- 2.2 Manager-Nuclear Support - is responsible for final approval of this procedure.

3.0 DEFINITIONS

- 3.1 Emergency Preparedness Program - The program which coordinates the plans, procedures, equipment and facilities, and ensures trained emergency response personnel and other resources are prepared for responding to an emergency at CPS.

4.0 INSTRUCTIONS

4.1 Review

- 4.1.1 The Director-Security and Emergency Planning is responsible for ensuring the completion of an entire review of the CPS Emergency Preparedness Program on an annual basis.
- 4.1.2 During the review, CPS Emergency Plan should be compared with appropriate State and local plans to ensure that no conflicts have developed since the last review.
- 4.1.3 Federal guidelines should be checked to ensure that they have not changed such that the Emergency Preparedness Program documents no longer comply.



TITLE: REVIEW OF EMERGENCY PREPAREDNESS PROGRAM

- 4.1.4 The review should also encompass an evaluation of the various drills, exercises, and training that were performed since the last review and ensure that any changes proposed to correct inadequacies identified during the exercises and drills have been implemented or are scheduled to be implemented.
- 4.1.5 The CPS Emergency Plan Implementing Procedures shall be reviewed on a biennial basis (within 24 months of the last revision plus a 25% grace period) and any revision identified as a result of the review should be completed within 3 months of the review. Comments identified should be annotated on a CPS Comment Control Form.
- 4.1.6 The review should also consider industry experience as it applies.
- 4.1.7 The CPS Emergency Plan requires that a quarterly review and update be made of the telephone numbers used in Emergency Preparedness Program documents, especially those references in EC-07, EMERGENCY PLAN NOTIFICATION.
- 4.1.8 Upon completion of the annual review, an Emergency Preparedness Program annual review report shall be prepared and submitted to the Manager-Nuclear Support and to the Nuclear Review and Audit Group (NRAG). The report should address each of the areas reviewed above, and those areas requiring changes along with the responsible department and a recommendation as to what the change should include. The report should be finished as soon as practical following the annual review.
- 4.1.9 Changes identified during the review shall be processed in accordance with AP-02, REVISIONS AND ADVANCE CHANGE NOTICES, as soon as practical.

4.2 Retention of Records

The Emergency Preparedness Program annual review report shall be retained in accordance with Records Management Standards.

5.0 REFERENCES

1. CNP 4.03, EMERGENCY PREPAREDNESS PROGRAM
2. CPS Emergency Plan, Section 5.2
3. EC-07, EMERGENCY PLAN NOTIFICATION
4. AP-02, REVISIONS AND ADVANCE CHANGE NOTICES
5. Records Management Standards

6.0 ATTACHMENTS

None

7.0 FORMS

None

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: EC-01 Rev. 6 ACN Number: 7/1

Summary of Change: Titles for the Director-Security and Emergency Planning were updated. In addition, reference to Illinois Power was removed and reference to the Radiation Protection Shift Supervisor title is changed to Radiation Protection. In addition, the Headquarters Support Center was deleted. Also, the Public Affairs Department was changed to CPS Communication Group.

Reason for Change: To update titles to match current organization. Illinois Power and the Headquarters Support Center were removed due to the sale of CPS to AmerGen. Public Affairs at headquarters will no longer be responsible for CPS. A small public information group at CPS replaces this. Radiation Protection Shift Supervisor was changed to Radiation Protection to allow flexibility for personnel to fill the position.

Replacement Pages:      Pages 2 and 4 of 8      Att. 1 Page 1      Att. 3 Page 1  
    Att. 4 Page 2

	Signature	Date
Originator:	<u>W. Yarosz</u>	<u>10/27/99</u>
Director-Security and Emergency Planning	<u>Stephen Smith</u>	<u>11/1/99</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Independent Reviewer:	<u>[Signature]</u>	<u>10/28/99</u>
Facility Review Group:	<u>[Signature]</u>	<u>12/10/99</u>
Manager-Clinton Power Station:	<u>[Signature]</u>	<u>12/13/99</u>
Approved/Effective Date:	<u>[Signature]</u>	<u>12/13/99</u>

TITLE: CPS EMERGENCY RESPONSE ORGANIZATION AND STAFFING

## 1.0 INTRODUCTION

The purpose of this procedure is to identify and describe the positions of the Emergency Response Organization (ERO).

This procedure is to be utilized during any emergency declaration in accordance with EC-02, EMERGENCY CLASSIFICATIONS, specifically from the time of emergency declaration through termination.

## 2.0 RESPONSIBILITY

- 2.1 Individual with Command Authority - normally the Station Emergency Director, is responsible for implementing this procedure.
- 2.2 Director-Security and Emergency Planning - is responsible for review of this procedure.
- 2.3 Manager-Nuclear Support - is responsible for final approval of this procedure.

## 3.0 DEFINITIONS

Emergency Response Organization (ERO) - trained personnel organized to manage response to emergency situations at CPS. The ERO is composed of the following:

- Interim Station Emergency Response Organization (Interim SERO)
- Station Emergency Response Organization (SERO)
- Emergency Support Organization (ESO)
- Joint Public Information Center (JPIC) Organization

| ACN 7/1

## 4.0 INSTRUCTIONS

### 4.1 Emergency Response Organization Staffing

- 4.1.1 The fully functional ERO is diagrammed in Attachment 1, EMERGENCY RESPONSE ORGANIZATION.
- 4.1.2 Command authority responsibilities are described in Attachment 2, COMMAND AUTHORITY RESPONSIBILITIES.
- 4.1.3 The function of the Emergency Response Organization at the various emergency response facilities for each emergency classification is shown in Attachment 3, EMERGENCY RESPONSE FACILITY/EMERGENCY RESPONSE ORGANIZATION FUNCTION PER EMERGENCY CLASSIFICATION.

TITLE: CPS EMERGENCY RESPONSE ORGANIZATION AND STAFFING

He may also mobilize additional support personnel without declaring a more severe emergency classification and without mobilizing the entire ERO.

If the ALERT were to be downgraded or terminated, ERO personnel arriving on-site are still required to report to their assigned ERF and activate that facility. The Individual with Command Authority may release personnel if their services are not needed.

4.2.3 SITE AREA EMERGENCY or GENERAL EMERGENCY

The entire ERO shall be mobilized upon declaration of SITE AREA EMERGENCY or GENERAL EMERGENCY.

The Individual with Command Authority shall mobilize the entire ERO per EC-07, EMERGENCY PLAN NOTIFICATION. Security shall be directed to perform ERO notifications for SITE AREA EMERGENCY or GENERAL EMERGENCY as appropriate. ERO personnel arriving on-site are to report directly to their assigned emergency response facility (ERF).

If the SITE AREA EMERGENCY or GENERAL EMERGENCY were to be downgraded, terminated, or recovery is in progress, ERO personnel arriving on-site are still required to report to their assigned ERF. The Individual with Command Authority may release personnel if their services are not needed.

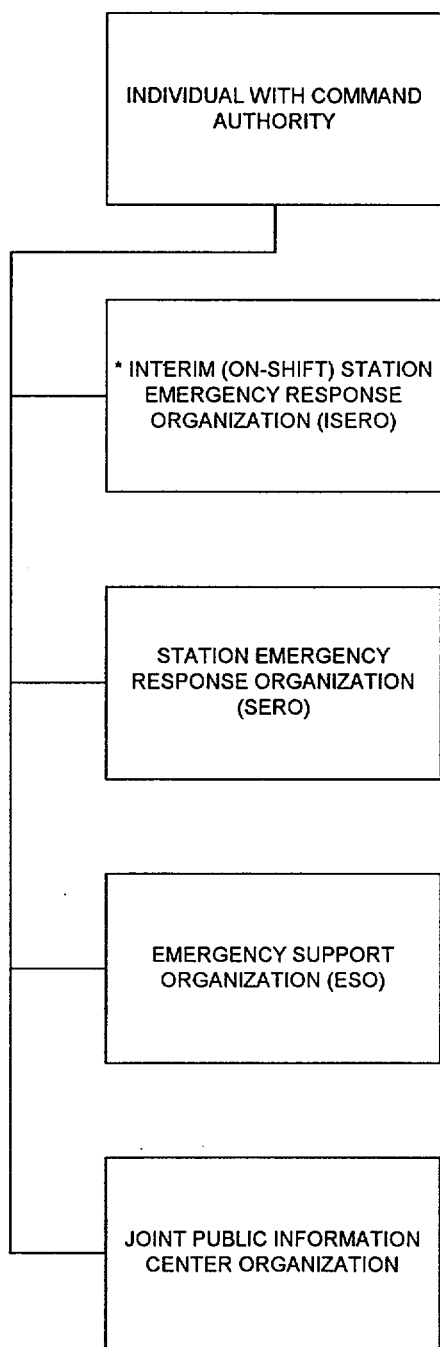
4.3 Emergency Response Facility (ERF) Staffing

The following table specifies the ERF(s) that shall be staffed by the indicated ERO component:

<u>ERF</u>	<u>Shall Be Staffed By:</u>
Main Control Room (MCR) and in-station areas	Interim Station Emergency Response Organization (Interim SERO)
Technical Support Center (TSC)/Operations Support Center (OSC)	Station Emergency Response Organization (SERO)
Emergency Operations Facility (EOF)	Emergency Support Organization (ESO)
Joint Public Information Center (JPIC)	Joint Public Information Center Organization (JPICO)

EMERGENCY RESPONSE ORGANIZATION

ACN 7/1



\*NOTE: The Interim Station Emergency Organization becomes an integral part of the Station Emergency Response Organization.

EMERGENCY RESPONSE FACILITY/EMERGENCY RESPONSE ORGANIZATION  
 FUNCTION PER EMERGENCY CLASSIFICATION

RESPONSE FUNCTIONS	<u>EMERGENCY CLASSIFICATION</u>			
	NOTIFICATION OF UNUSUAL EVENT	ALERT	SITE AREA EMERGENCY	GENERAL EMERGENCY
Supervision of Reactor Operations and Manipulation of Controls	MCR/ISERO	MCR/ISERO	MCR/ISERO	MCR/ISERO
Management of Station Operations	MCR/ISERO	TSC/SERO	TSC/SERO	TSC/SERO
Technical Support to Reactor Operations	MCR/ISERO	TSC/SERO	TSC/SERO	TSC/SERO
Management of Corporate Emergency Response Resources	MCR/ISERO	TSC/SERO	EOF/ERO	EOF/ERO
Radiological Effluent and Environs Monitoring, Assessment, and Dose Projections	MCR/ISERO	TSC/SERO	EOF/ERO	EOF/ERO
Inform Federal, State and local Emergency Response Organizations and Make Protective Action Recommendations for Public Response	MCR/ISERO	TSC/SERO	EOF/ERO	EOF/ERO
Public Information Updates	CPS Communications Group	JPIC/JPICO	JPIC/JPICO	JPIC/JPICO

ACN  
7/1

MCR - Main Control Room  
 TSC - Technical Support Center  
 EOF - Emergency Operations Facility  
 ISERO - Interim Station Emergency Response Organization  
 SERO - Station Emergency Response Organization  
 RO - Emergency Response Organization  
 JPICO - Joint Public Information Center Organization

ACN  
7/1

KEY FUNCTION RESPONSIBILITIES

KEY FUNCTION RESPONSIBILITY	EMERGENCY CLASSIFICATION			
	Notification of Unusual Event	Alert	Site Area Emergency	General Emergency
Radiological Effluent and Environs Monitoring, Assessment and Dose Projections	Radiation Protection	TSC Radiological Supervisor Radiation Protection Personnel Field Teams	Dose Assessment Supervisor Field Teams	Dose Assessment Supervisor Field Teams
Inform Federal, State and Local Emergency Response Organizations and Make Protective Action Recommendations for Public Protective Actions	Shift Manager Shift Supervisor	Station Emergency Director	Emergency Manager	Emergency Manager
Public Information Updates	CPS Communications Group	JPIC Director CPS Public Information Officer	JPIC Director CPS Public Information Officer	JPIC Director CPS Public Information Officer

ACN 7/1

ACN 7/1

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: EC-02 Rev. 6 ACN Number: 7/3

Summary of Change: Symptom 13.3-update title of Shift Supervisor to Shift Manager. This is an Administrative ACN only.

Reason for Change: To reflect current title for the Shift Manager.

Replacement Pages: Att. 2 pg 18 of 19

	Signature	Date
Originator:	<i>John G...</i>	12/17/99
Director-Security and Emergency Planning	<i>James Smith</i>	12/20/99
Concurrence:	NA	/
Concurrence:	NA	/
Concurrence:	NA	/
Independent Reviewer:	NA	/
Facility Review Group:	NA	/
Manager-Clinton Power Station:	NA	/
Approved/Effective Date:	NA	12/20/99



EMERGENCY CLASSIFICATIONS GUIDE

CATEGORY: 13.0 OTHER HAZARDOUS CONDITIONS (Cont'd)

<u>SYMPTOM</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
13.3 Explosions	Explosion near or onsite that could affect the safe operation of the plant as judged by the Shift Manager.	Known explosion causing damage to the Protected Area, or Switchyard affecting Station operations.	Severe explosion occurring in a vital area which either: <ul style="list-style-type: none"> <li>- damages systems necessary for the immediate protection of the public, or</li> <li>- warrants a precautionary evacuation of non-essential personnel from the Protected Area, or</li> <li>- indicates a loss of control over explosive materials such that further explosions are possible.</li> </ul>	ACN 7/3
13.4 Missiles		Any missile impacts within the protected area from any source (internal or external) that could adversely affect the safety of the plant.	Severe damage due to missile impact to Safe Shutdown Equipment. (Refer to EPIP EC-02 Attachment 3)	
13.5 Train Derailment	Any train derailment onsite presenting a hazard to the plant.			

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: EC-02 Rev. 6 ACN Number: 7/2

Summary of Change: Symptom 13.6 of EC-02 was revised to provide clarification about when a Notification of Unusual Event is required. The new wording indicates one is required only when the Limiting Conditions of Operation Action Statement Time will be exceeded.

Reason for Change: The current wording does not provide any guidance on when the Notification of Unusual Event should be declared for shutdowns required by Technical Specifications. The new wording does..

Replacement Pages: Attachment 2 page 19 of 19

	Signature	Date
Originator:	<i>[Signature]</i>	1 8/5/99
Director-Security and Emergency Planning	<i>Dennis Smith</i>	1 12/1/99
Concurrence:	<i>W. McGuire, Dir. OPS.</i>	1 8/15/99
Concurrence:	<i>[Signature]</i>	1
Concurrence:	<i>N/A</i>	1
Independent Reviewer:	<i>[Signature]</i>	1 12/1/99
Facility Review Group:	<i>W. McGuire</i>	1 12/10/99
Manager-Clinton Power Station:	<i>[Signature]</i>	1 12/13/99
Approved/Effective Date:	<i>Harry Bahr</i>	1 12/13/99

EMERGENCY CLASSIFICATIONS GUIDE

CATEGORY: 13.0 OTHER HAZARDOUS CONDITIONS (Cont'd)

<u>SYMPTOM</u>	<u>UNUSUAL EVENT</u>	<u>ALERT</u>	<u>SITE AREA EMERGENCY</u>	<u>GENERAL EMERGENCY</u>
13.6 Judgement of Individual With Command Authority	<p>Inability to reach required shutdown within Technical Specification limits, e.g., HPCS fails and cannot be repaired within 14 days and completion times are not met for either mode 3 or 4 in accordance with Technical Specification 3.5.1 LCO actions.</p> <p>If you have arrived at an Unusual Event by more than one pathway, <u>consider</u> upgrading to an ALERT classification.</p>	<p>Other plant conditions exist that warrant precautionary activation of the Technical Support Center (TSC) and placing the Emergency Operations Facility (EOF and other key emergency response personnel) on standby.</p> <p><u>OR</u></p> <p>If you have arrived at an ALERT by more than one pathway, <u>consider</u> upgrading to a SITE AREA EMERGENCY.</p>	<p>Other plant conditions exist that warrant activation of Emergency Centers and monitoring teams or a precautionary notification to the public near the site.</p> <p><u>OR</u></p> <p>If you have arrived at a SITE AREA EMERGENCY by more than one pathway, <u>consider</u> upgrading to a GENERAL EMERGENCY.</p>	<p>If a primary system leak exists which cannot be promptly isolated and causes the radiation level or containment temperature/pressure to rise</p> <p><u>AND</u></p> <p>Any situation exists which will potentially lead to a core melt situation, a GENERAL EMERGENCY shall be declared as soon as both are established.</p>

ACN 7/2

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: EC-14 Rev. 3 ACN Number: 4/3

Summary of Change: References to Headquarters Support Center and Illinois Power are removed.

Reason for Change: With the sale of CPS to AmerGen, the Headquarters Support Center is going away as well as references to Illinois Power.

Replacement Pages: Page 6 of 7 Att. 1 Page 1 Att. 2 Page 1

	Signature	Date
Originator:	<u>W. H. Yarow</u>	<u>10/27/99</u>
Director-Security and Emergency Planning	<u>Alvin Smith</u>	<u>11/1/99</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Independent Reviewer:	<u>Lu Er</u>	<u>10/28/99</u>
Facility Review Group:	<u>W. F. McGuire</u>	<u>12/10/99</u>
Manager-Clinton Power Station:	<u>[Signature]</u>	<u>12/13/99</u>
Approved/Effective Date:	<u>Danny Beck</u>	<u>12/13/99</u>

TITLE: RECOVERY

- 4.9 Specialized equipment, personnel with technical expertise, and other outside assistance may be obtained through the Institute of Nuclear Power Operation's (INPO) "Fixed Facility Emergency Response Voluntary Assistant Agreement." (See Communication Directory in NERM.) | ACN 4/3
- 4.10 Additional engineering assistance may be obtained from Sargent and Lundy Engineers and General Electric. (See Communication Directory in NERM.)
- 4.11 At the direction of the Recovery Manager, after consultation with and the approval by the NRC, the recovery organization shall terminate its activities and return to pre-emergency operations.

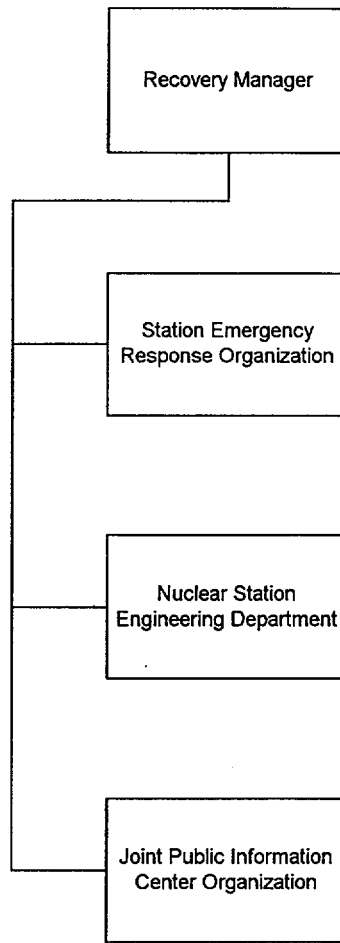
NOTE

Following an emergency, all failed equipment not necessary for safe shutdown and records are to be quarantined pending an NRC investigation. Personnel involved in major decisions or evolutions may also be interviewed by the NRC investigation team. | 4/1

5.0 REFERENCES

1. CPS Emergency Plan, Section 4.2 - 4.3
2. EC-07, EMERGENCY PLAN NOTIFICATION
3. RA-05, PERSONNEL PROTECTION
4. RA-04, PERSONNEL MONITORING AND DECONTAMINATION
5. RA-03, RADIOLOGICAL EXPOSURE GUIDELINES
6. EC-11, REENTRY
7. RA-06, STATION RADIOLOGICAL SURVEYS
8. EC-08, NON-ESSENTIAL PERSONNEL EVACUATION
9. PR-03, PREPARATION AND DISSEMINATION OF IP EMERGENCY INFORMATION

RECOVERY ORGANIZATION



ACN 4/3

RECOVERY MANAGER RESPONSIBILITIES

The Recovery Manager is responsible for directing the overall recovery related activities. | 4/3

DUTIES:

1. Direct the Recovery Organization and coordinate Company activities.
2. Notify Federal, State, and appropriate local agencies of recovery. | 4/1
3. Responsible for ensuring that members of the emergency organizations are informed that recovery operation is to be initiated and of any changes in the organizational structure that may occur.
4. Ensure that measures are taken onsite to:
  - a) Protect employees and the public.
  - b) Minimize the damage to the Station.
  - c) Effect post-accident recovery and deactivate the Emergency Support Organization.
5. Request assistance from outside organizations, if required.
6. Ensure documentation related to maintenance, radiation safety and ALARA considerations, outside assistance, communications, and training applicable to recovery operations is collected and maintained as a record of recovery activities.
7. Coordinate activities between onsite and offsite. | 4/3
8. Coordinate activities with participating agency headquarters. | 4/3
9. Serve as official contact between CPS and governmental agencies. | 4/1,  
4/3
10. Ensure the JPIC is kept up to date.

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: MS-03 Rev. 4 ACN Number: 5/2

Summary of Change: References to IP were replaced with CPS. Public Affairs was replaced with the CPS Communications Group.

Reason for Change: With the sale of CPS to AmerGen, references to Illinois Power need to be removed and replaced by CPS. In addition, Public Information on a day-to-day basis will be handled by the CPS Communications Group.

Replacement Pages: Page 3 and 4 of 4

	Signature	Date
Originator:	<u>W. J. [Signature]</u>	<u>10/27/99</u>
Director-Security and Emergency Planning	<u>Dennis Smith</u>	<u>11/1/99</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Independent Reviewer:	<u>[Signature]</u>	<u>10/28/99</u>
Facility Review Group:	<u>W. F. [Signature]</u>	<u>12/10/99</u>
Manager-Clinton Power Station:	<u>[Signature]</u>	<u>12/13/99</u>
Approved/Effective Date:	<u>[Signature]</u>	<u>12/13/99</u>



TITLE: NOTIFICATION OF NEXT-OF-KIN

1.0 INTRODUCTION

The purpose of this procedure is to provide guidance for use in notifying next-of-kin for an employee who is severely injured, fatally injured, or reported missing at the Clinton Power Station during a declared emergency classification. This procedure is to be utilized during any declared emergency per the CPS Emergency Plan for any employee or contractor.

ACN  
5/2

2.0 RESPONSIBILITY

2.1 Department Managers - are responsible for ensuring the implementation of this procedure.

2.2 Director-Security and Emergency Planning - is responsible for the review of this procedure.

ACN  
5/1

2.4 Manager-Nuclear Support - is responsible for approval of this procedure.

ACN  
5/1

3.0 DEFINITIONS

3.1 Next-of-Kin - Includes the person or persons most nearly related to another person.

3.2 Injured Employee - A CPS employee or contractor who may require offsite medical attention.

ACN  
5/2

4.0 INSTRUCTIONS

4.1 Response Actions During a Notification of Unusual Event

4.1.1 The CPS Security Supervisor is responsible for notifying the appropriate department manager of serious injuries, deaths or missing employees.

ACN  
5/2

4.1.2 For CPS employees, notify the cognizant department manager. For a contractor, notify the department manager who has been assigned contract responsibility.

4.1.3 As much information as possible, such as social security number, employee number, street address or city, should be provided to eliminate the possibility of notifying a family with a similar name.

4.1.4 The department manager shall ensure the employee's next-of-kin is notified. The department manager shall also notify the CPS Communication Group when the notification is complete and provide additional specific information if available.

ACN  
5/2

4.1.5 Names and telephone numbers for the CPS Communications Group are located in the Nuclear Emergency Response Manual under Notification of Next-Of-Kin.

4.2 Response Actions During an Alert, Site Area Emergency and General Emergency

4.2.1 The Emergency Operations Facility (EOF) Security Supervisor is responsible for notifying the appropriate department manager of serious injuries, deaths or missing employees.

TITLE: NOTIFICATION OF NEXT-OF-KIN

- 4.2.2 For CPS employees, notify the cognizant department manager. For a contractor, notify the department manager who has been assigned contract responsibility. | ACN  
5/2
- 4.2.3 As much information as possible, such as social security number, employee number, street address or city, should be provided to eliminate the possibility of notifying a family with a similar name.
- 4.2.4 The department manager shall ensure the employee's next-of-kin is notified.
- 4.2.5 The department manager is responsible for informing the EOF Security Supervisor when the next-of-kin has been notified.
- 4.2.6 The EOF Security Supervisor is responsible for informing the Technical Information Liaison who should obtain approval from the Emergency Manager and release the name of the employee to the Joint Public Information Center (JPIC) |

5.0 REFERENCES

- 1. PR-03, Preparation & Dissemination of Emergency Information | ACN  
5/2

6.0 ATTACHMENTS

None

7.0 FORMS

None

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: PR-01 Rev. 6 ACN Number: 7/1

Summary of Change: Titles have been updated to reflect current usage. References to Illinois Power and Public Affairs have been eliminated.

Reason for Change: With the sale of CPS to AmerGen, support from Illinois Power is going away. Therefore, references to Headquarters are being deleted. Also support from Public Affairs will transfer to the CPS Communications Group. Titles were updated to match organizational chart.

Replacement Pages: Page 3 of 7 through 7 of 7 Att. 1 Page 1 of 1 Att. 3 Page 1 of 1

	Signature	Date
Originator:	<u>W. H. Yancy</u>	<u>10/27/99</u>
Director-Security and Emergency Planning	<u>Dennis Smith</u>	<u>11/1/99</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Concurrence:	<u>NA</u>	<u>/</u>
Independent Reviewer:	<u>John E.</u>	<u>10/28/99</u>
Facility Review Group:	<u>W. H. Yancy</u>	<u>11/2/99</u>
Manager-Clinton Power Station:	<u>[Signature]</u>	<u>11/2/99</u>
Approved/Effective Date:	<u>Gary Bahr</u>	<u>11/2/99</u>

TITLE: JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

## 1.0 INTRODUCTION

### 1.1 Purpose

The purpose of this procedure provides guidance for the activation, operation and staffing for the CPS Joint Public Information Center (JPIC).

ACN 7/1

### 1.2 Scope

This procedure is to be utilized during any declared emergency per the emergency classification scheme identified in CPS Emergency Plan Implementing Procedure (EPIP) EC-02, EMERGENCY CLASSIFICATIONS.

### 1.3 Applicability

This procedure is applicable to personnel assigned public information emergency response duties as defined in the CPS Emergency Plan and in this procedure.

## 2.0 RESPONSIBILITY

2.1 JPIC Director - is responsible for ensuring the implementation of this procedure.

ACN 7/1

2.2 Director-Security and Emergency Planning - is responsible for review of this procedure.

2.4 Manager-Nuclear Support - is responsible for the approval of this procedure.

## 3.0 DEFINITIONS

3.1 Emergency Classification - The classifications of emergencies incorporated into the CPS Emergency Plan (in order of increasing severity) are:

- 3.1.1 NOTIFICATION OF UNUSUAL EVENT
- 3.1.2 ALERT
- 3.1.3 SITE AREA EMERGENCY
- 3.1.4 GENERAL EMERGENCY

3.2 Emergency Response Facility (ERF) - A dedicated facility equipped to centralize management of emergency response activities, to provide coordination of response efforts, and to provide communications for response efforts.

3.3 Individual With Command Authority - The individual in the CPS Emergency Response Organization who has the responsibility for command activities.

ACN 7/1

TITLE: JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

- 3.4 Joint Public Information Center (JPIC) Organization - A component of the CPS Emergency Response Organization, working in the JPIC. The function of the JPIC Organization is to 1) gather emergency related information, 2) assist in the preparation of emergency news updates, and 3) distribute emergency information to the public through the news media. | ACN 7/1
- 3.5 Joint Public Information Team - The team of public information officers, made up of members from DeWitt County, Illinois State Agencies, FEMA, NRC, and CPS who coordinate information at the Joint Public Information Center (JPIC).
- 3.6 Activation - Process to bring emergency response personnel or facilities to operational status.
- 3.7 Operational - The JPIC is considered operational when personnel are present to perform the key functions of the JPIC. Those key functions are:
- 3.7.1 Management of both the Joint Public Information Team work area and the news media work area.
- 3.7.2 Development of news updates and briefings.
- 3.8 Key Functional Personnel - the essential personnel necessary to declare the JPIC operational are as follows:
- 3.8.1 Public Information Officer | ACN 7/1
- 3.8.2 JPIC Director
- 4.0 INSTRUCTIONS
- 4.1 Activation
- 4.1.1 Upon declaration of an ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY, the JPIC shall be activated and the JPIC Director shall be notified per EPIP EC-07, EMERGENCY PLAN NOTIFICATION.
- 4.2 Operations
- 4.2.1 Upon notification, designated JPIC Organization staff shall report to the JPIC, assist with the set-up and activation of the JPIC using activation checklists.
- 4.2.2 The JPIC Director shall be briefed by the EOF Technical Information Liaison.
- 4.2.3 The PIO shall confer with the individual with command authority, normally the Emergency Manager. | ACN 7/1
- 4.2.4 The JPIC Director shall ensure that key personnel are present and ready to assume their emergency responsibilities.

TITLE: JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

4.2.5 Upon activation of the JPIC, the JPIC Director shall inform the individual with command authority, normally the Emergency Manager that the JPIC is ready for operation and able to perform key functions.

ACN 7/1

4.2.6 Upon determination that the JPIC is operational, the JPIC Director shall notify the individual with command authority that the emergency public information responsibility has been assumed by the JPIC. The JPIC Director shall then notify the JPIC personnel of this action using the following script as a guide.

"THIS IS (NAME). I HAVE ASSUMED RESPONSIBILITY FOR EMERGENCY PUBLIC INFORMATION AS OF (TIME). THE JPIC IS NOW OPERATIONAL."

He shall then log the time he assumed responsibility for public information operations.

4.2.7 The JPIC Director shall remain in control of the public information operations at all times and keep the individual with command authority, normally the Emergency Manager, informed of JPIC activities.

4.2.8 The JPIC Director may assign the JPIC Assistant Director to take temporary charge of JPIC emergency response activities in his absence.

4.3 Staffing

The CPS Joint Public Information Center Organization titles, responsibilities and duties are described in the attachments to this Procedure.

ACN 7/1

4.4 Emergency Classification Actions

4.4.1 NOTIFICATION OF UNUSUAL EVENT

4.4.1.1 At the NOUE level, the JPIC is not normally activated. Refer to PR-03 for further guidance.

4.4.1.2 The CPS Communications Group may request the JPIC Director to mobilize the JPIC Organization and activate the JPIC, with concurrence from the CPS Public Information Officer, if the demands exceed the capability of the CPS Communications Group.

ACN 7/1

4.4.2 ALERT, SITE AREA EMERGENCY, or GENERAL EMERGENCY

4.4.2.1 The JPIC Director, or his designee, shall be notified per Implementing Procedure EC-07, EMERGENCY PLAN NOTIFICATION.

4.4.2.2 The JPIC Director, or his designee, shall initiate notification of the JPIC Organization. This may be delegated.

TITLE: JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

- 4.4.2.3 The JPIC Director may direct the JPIC Administration Coordinator to notify additional personnel if news media and public interest warrant increased staffing.
- 4.4.2.4 The JPIC Director shall determine which media from JPIC NEWS MEDIA NOTIFICATION LIST found in Section VII of the Communications Directory in the NERM should be notified. The actual notification may be delegated.

4.5 Deactivation

- 4.5.1 The JPIC shall remain activated until public and news media interest decreases to a level that the CPS Communications Group can handle inquiries and requests. | ACN 7/1
- 4.5.2 The JPIC Director shall confer with the Joint Public Information Team Members in determining when the JPIC should be deactivated.
- 4.5.3 The JPIC Director shall obtain approval to deactivate the JPIC from the individual with command authority, normally the Emergency Manager, prior to deactivation of the JPIC facility.
- 4.5.4 The JPIC Director shall release the CPS personnel in the JPIC. | ACN 7/1
- 4.5.5 It is the responsibility of each staff member to ensure that:
  - 4.5.5.1 Records and forms are turned over to the JPIC Administration Coordinator.
  - 4.5.5.2 Equipment has been turned off and returned as appropriate.
  - 4.5.5.3 Work areas have been cleaned and returned to pre-emergency conditions.
- 4.5.6 Each individual should generate a summary of his activities within the scope of his responsibilities and forward it to the JPIC Director for compilation by the end of each duty shift change.

5.0 REFERENCES

- 5.1 CPS EMERGENCY PLAN
- 5.2 EPIP EC-07, EMERGENCY PLAN NOTIFICATION
- 5.3 EPIP PR-03, PREPARATION AND DISSEMINATION OF IP EMERGENCY INFORMATION
- 5.4 EPIP EC-02, EMERGENCY CLASSIFICATIONS

6.0 ATTACHMENTS

- 1. JPIC ORGANIZATION CHART
- 2. JPIC LAYOUT
- 3. JPIC Line-of-Succession

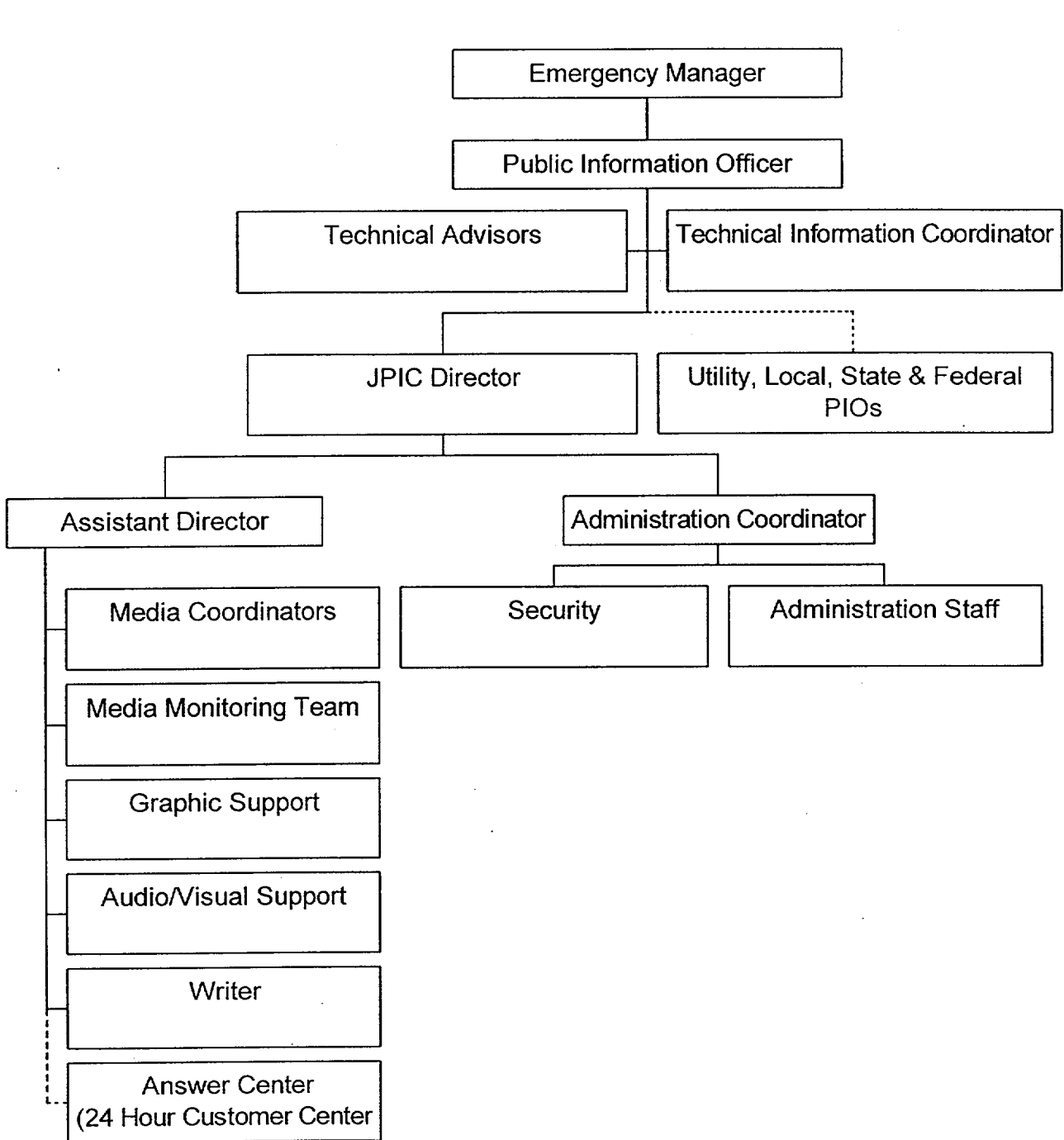
TITLE: JOINT PUBLIC INFORMATION CENTER OPERATION AND STAFFING

7.0 FORMS

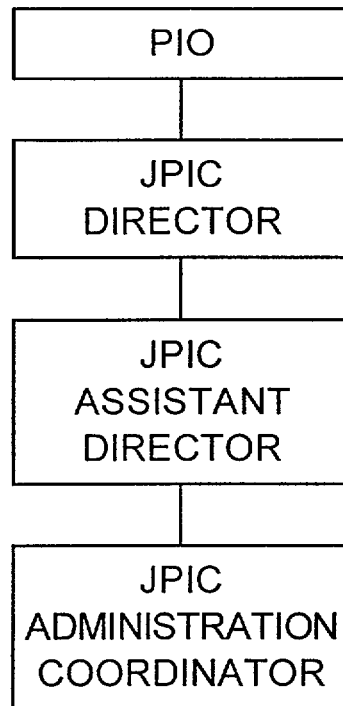
1. JPIC Administration Coordinator Checklist
2. JPIC Audiovisual Support Checklist
3. JPIC Director Checklist
4. Cancelled
5. JPIC Assistant Director Checklist
6. JPIC Graphic Support Checklist
7. CPS Public Information Officer Checklist | ACN 7/1
8. JPIC Media Coordinator Checklist
9. JPIC Media Monitoring Team Checklist
10. Cancelled
11. JPIC Security Representative Checklist
12. JPIC Technical Advisor Checklist
13. JPIC Technical Information Coordinator Checklist
14. Writer Checklist
15. JPIC PIO Steno Checklist | ACN 7/1
16. JPIC Telefax Operator Checklist
17. JPIC Registration Staff Checklist



JPIC ORGANIZATION CHART



JPIC LINE-OF-SUCCESSION



ACN 7/1

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

SCOPE OF REVISION: Corrected titles due to recent organization changes. Removed references to IP.

DOCUMENT CONTROL

JAN 11 2000  
223  
CONTROLLED COPY  
CLINTON POWER STATION

Authority

	<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by		W. H. [Signature]	12/1/99
Director-Security and Emergency Planning		Debbie Smith	12/2/99
Concurrence	NA		
Concurrence	NA		
Concurrence	NA		
Independent Reviewer		[Signature]	11/29/99
Facility Review Group		W. F. [Signature]	12/10/99
Manager-Clinton Power Station		[Signature]	12/13/99
Approval/Effective Date		[Signature]	11/15/99

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

CONTENTS

- 1.0 INTRODUCTION
- 2.0 RESPONSIBILITY
- 3.0 DEFINITIONS
- 4.0 INSTRUCTIONS
  - 4.1 Non-Authorized Dissemination of Emergency Information
  - 4.2 News Media Access to CPS During an Emergency
  - 4.3 NOTIFICATION OF UNUSUAL EVENT
  - 4.4 ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY
  - 4.5 Preparation of News Updates
  - 4.6 Distribution of News Updates From the JPIC
  - 4.7 News Conferences and Interviews
- 5.0 REFERENCES
- 6.0 ATTACHMENTS
- 7.0 FORMS

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

## 1.0 INTRODUCTION

### 1.1 Purpose

The purpose of this procedure is to provide guidance for the development and issuance of news updates to the public and news media concerning emergency conditions at the Clinton Power Station (CPS).

### 1.2 Scope

1.2.1 Routine information, which does not involve a declared emergency classification at CPS, is not covered by this procedure.

1.2.2 Information in all forms; news updates, news conferences, and news interviews relating to a declared emergency at CPS are covered in this procedure.

### 1.3 Applicability

The procedure applies to personnel responsible for preparing information for dissemination to the public by way of the news media during an emergency condition at CPS. It also applies to personnel responsible for approving news updates.

## 2.0 RESPONSIBILITY

2.1 Supervisor Communications or JPIC Director - is responsible for implementing this procedure.

2.2 Individual with Command Authority - is responsible for approving information for news updates during an emergency at CPS.

2.3 Director-Security and Emergency Planning - is responsible for review of this procedure.

2.4 Manager-Nuclear Support - is responsible for the approval of this procedure.

## 3.0 DEFINITIONS

3.1 Emergency Classifications - The classification of emergencies incorporated into the CPS Emergency Plan (in order of increasing severity) are:

- 3.1.1 NOTIFICATION OF UNUSUAL EVENT,
- 3.1.2 ALERT,
- 3.1.3 SITE AREA EMERGENCY, and
- 3.1.4 GENERAL EMERGENCY

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

- 3.2 Individual with Command Authority - The lead individual in the Emergency Response Organization with unilateral authority to commit resources and command activities.
- 3.3 Joint Public Information Center (JPIC) - Facility to be used to coordinate and disseminate information during an emergency at CPS. The JPIC is a dedicated facility whose primary function is to meet the NRC requirement for a centralized location to disseminate information to the public via the news media. Any other use of the facility must be requested in writing to the Director-Security and Emergency Planning.
- 3.4 Joint Public Information Team (JPIT) - The team of public information officers, which may include members from DeWitt County, Illinois State agencies, FEMA, NRC, and other agencies who coordinate and disseminate information at the Joint Public Information Center (JPIC).

4.0 INSTRUCTIONS

4.1 Non-Authorized Dissemination of Emergency Information

- 4.1.1 CPS employees and/or agents are not authorized to distribute information regarding an emergency at CPS to the general public or media unless they are specifically provided approved information from the Supervisor Communications or the JPIC.
- 4.1.2 Only those individuals so identified in this procedure shall have the primary authority to communicate on behalf of CPS with the news media regarding an emergency at the Clinton Power Station.
- 4.1.3 Inquiries from the public and news media for information during an emergency should be directed to the CPS Communications Group (when JPIC is not activated) or to the JPIC Organization (when the JPIC is activated). The 24-Hour Answer Center will coordinate public inquiries with the JPIC.

4.2. News Media Access to CPS During an Emergency

- 4.2.1 Following the declaration of an emergency classification at CPS, any member of the news media who arrives at CPS shall be denied access unless his or her presence is specifically approved by the individual with command authority, normally the Station Emergency Director or the Emergency Manager.
- 4.2.2 Any news media individual(s) with approved access following the declaration of an emergency classification shall be escorted.

4.3 NOTIFICATION OF UNUSUAL EVENT (JPIC not Operational)

- 4.3.1 Following declaration of NOTIFICATION OF UNUSUAL EVENT and the JPIC is not Operational, the CPS Communications Group shall assign staffing required to disseminate approved information and/or respond to inquiries about the emergency from the news media and/or other organizations.

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

- 4.3.2 The Supervisor Communications or his designee shall use Attachment 1 as a guide.
- 4.3.3 The Supervisor Communications or his designee shall provide information approved by the individual with command authority to the following organizations and individuals:
  - 4.3.3.1 JPIC NEWS MEDIA NOTIFICATION LIST, as appropriate.
  - 4.3.3.2 OFFSITE PUBLIC INFORMATION OFFICERS, as appropriate.
  - 4.3.3.3 Nuclear Energy Institute.

NOTE

Additional organizations/individuals may be notified as deemed appropriate by the Supervisor Communications or his designee.

4.4 ALERT, SITE AREA EMERGENCY or GENERAL EMERGENCY(JPIC Operational)

- 4.4.1 Upon activation of the JPIC, the JPIC Director shall assure that all CPS information provided to the news media has been approved by the individual with command authority.
- 4.4.2 The JPIC Director shall notify the news media using the JPIC NEWS MEDIA NOTIFICATION LIST (found in the NERM), when the JPIC is activated. The initial news media notification may be delegated.

NOTE

While the EOF Public Information Group and the JPIC are being activated, other sources of information for the CPS Communications Group and/or JPIC are the CPS Site Vice President and the Manager-CPS.

4.5 Preparation of News Updates

Upon activation of the JPIC and the passage of public information responsibility from the Supervisor Communications (or designee) to the JPIC Director, the method of preparing news updates is as follows:

- 4.5.1 The JPIC Writer will initiate and write news updates using approved information obtained from the CPS Public Information Officer and/or the EOF Technical Information Liaison.

TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

- 4.5.2 News updates shall be checked for consistency by the CPS Public Information Officer, the JPIC Director or the JPIC Writer, issued a sequential number or time, and duplicated in sufficient numbers for distribution.
  - 4.5.3 The CPS Public Information Officer (PIO) or his designee shall approve news updates generated at the JPIC. The CPS PIO obtains approved information from the person with command authority, normally the Emergency Manager.
  - 4.5.4 Other technical information for use by JPIC personnel, including the CPS PIO, to support news updates or news media briefings shall be reviewed for technical accuracy and appropriateness by the Technical Information Liaison.
- 4.6 Distribution of News Updates from the JPIC
- 4.6.1 Approved, emergency-related news updates shall be distributed to the news media by either the JPIC Director or the Media Coordinators.
  - 4.6.2 Copies of the approved news updates shall be disseminated/transmitted as necessary to the following:
    - 4.6.2.1 Illinois Emergency Management Agency (IEMA) Office - If IEMA PIO is not present at the JPIC.
    - 4.6.2.2 Illinois Department of Nuclear Safety (IDNS) Office - if IDNS PIO is not present at the JPIC.
    - 4.6.2.3 DeWitt County EOC - if DeWitt County PIO is not present at the JPIC.
    - 4.6.2.4 NRC Headquarters, Bethesda - for information.
    - 4.6.2.5 NRC Region III - if NRC PIO is not present at the JPIC.
    - 4.6.2.6 FEMA National Headquarters - for information.
    - 4.6.2.7 FEMA Region V - if FEMA PIO is not present at the JPIC.
    - 4.6.2.8 Nuclear Energy Institute.
  - 4.6.3 Only that CPS related information approved by the individual with command authority shall be used by CPS personnel to respond to telephone inquiries.



TITLE: PREPARATION AND DISSEMINATION OF EMERGENCY INFORMATION

4.7 News Conferences and Interviews

- 4.7.1 Prior to activation of the JPIC, the CPS Communications Group shall determine, in consultation with the CPS Public Information Officer, the content and time of CPS news conferences.
- 4.7.2 Upon activation of the JPIC, the CPS Public Information Officer shall coordinate scheduling of news conferences with the governmental agencies represented (including but not limited to IEMA, IDNS, DeWitt County ESDA, FEMA, and NRC).
- 4.7.3 From the JPIC, the CPS Public Information Officer shall represent CPS and owners of CPS at news conferences by providing in a timely manner accurate technical information. The JPIC Technical Advisors shall assist, as requested by the CPS PIO.
- 4.7.4 The JPIC Technical Information Coordinator and the JPIC Technical Advisors shall assist the CPS Public Information Officer in preparing for news conferences and interviews.
- 4.7.5 The JPIC Graphic Support shall assist the CPS Public Information Officer and other JPIT members in preparing for news conferences and briefings.
- 4.7.6 The JPIC Audiovisual Support should record news conferences held in the JPIC using audio and/or video recording methods.
- 4.7.7 The JPIC Director or the Media Coordinators shall notify the news media in the JPIC when scheduled news conferences will take place.
- 4.7.8 The JPIC Director or the Media Coordinators shall notify the JPIT members of specific requests for information and interviews.

5.0 REFERENCES

- 5.1 CPS Emergency Plan, Section 2.6.2
- 5.2 PR-01, JOINT PUBLIC INFORMATION CENTER ORGANIZATION AND STAFFING

6.0 ATTACHMENTS

- 1. Communications Center Media Representative Checklist

7.0 FORMS

None

SUPERVISOR COMMUNICATIONS  
CHECKLIST

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

When notified of "NOTIFICATION OF UNUSUAL EVENT"

Time

- |    |   |       |
|----|---|-------|
| 1. | Called the CPS Site Vice President or Manager - CPS for approved information.   | _____ |
| 2. | Informed the JPIC Director of status.   | _____ |
| 3. | Depending upon circumstances, informed news media using JPIC NEWS MEDIA NOTIFICATION LIST, found in Section VIIa of the Communications Directory in the NERM, and other news media, as deemed appropriate.  | _____ |
| 4. | Responded to news media inquiries.  | _____ |
| 5. | Coordinated with the JPIC Director to inform offsite agency PIO's using OFFSITE PUBLIC INFORMATION OFFICERS, found in section VIIb of the Communications Directory in the NERM, as appropriate. Other PIO's may be contacted if deemed appropriate. | _____ |
| 6. | Provided news releases to Nuclear Energy Institute. This may be delegated.  | _____ |

COMMUNICATIONS CENTER MEDIA REPRESENTATIVE  
CHECKLIST

<u>When notified of "ALERT"</u>	<u>Time</u>
1. Coordinated with the JPIC Director to obtain information from the CPS Site Vice President or the Manager - CPS.	_____
2. Mobilized Public Affairs staff as needed to respond to media inquiries while the JPIC is being activated.	_____
3. Assisted the JPIC Writer in drafting news updates.	_____
4. Coordinated with the JPIC Director to inform news media using JPIC NEWS MEDIA NOTIFICATION LIST, found in Section VIIa of the Communications Directory in the NERM, and other news media, as deemed appropriate.	_____
5. Coordinated with the JPIC Director to inform offsite agency PIO's using OFFSITE INFORMATION OFFICERS, found in Section VIIb of the Communications Directory in the NERM, as a minimum, and other PIO's as deemed appropriate.	_____
6. When JPIC is to be activated, refer to EPIP PR-01, Form 3, JPIC DIRECTOR CHECKLIST.	_____

ADVANCE CHANGE NOTICE AUTHORIZATION PAGE

Document: PR-05 Rev. 6 ACN Number: 7/2

Summary of Change: Titles for the Director-Security and Emergency Planning were updated. References to Illinois Power and Public Affairs have been removed and changed to CPS.

Reason for Change: With the upcoming sale of CPS to AmerGen, references to Public Affairs and Illinois Power are being removed. In addition, the title of the Director-Security and Emergency Planning was revised to reflect the current organization.

Replacement Pages: Page 3 and 4 of 4

	Signature	Date
Originator:	<u>W L Yarosz</u>	<u>1 10/27/99</u>
Director-Security and Emergency Planning	<u>Dennis Smuta</u>	<u>1 11/1/99</u>
Concurrence:	<u>NA</u>	<u>1</u>
Concurrence:	<u>NA</u>	<u>1</u>
Concurrence:	<u>NA</u>	<u>1</u>
Independent Reviewer:	<u>Ph E</u>	<u>1 10/28/99</u>
Facility Review Group:	<u>W F McGuire</u>	<u>1 12/10/99</u>
Manager-Clinton Power Station:	<u>[Signature]</u>	<u>1 12/13/99</u>
Approved/Effective Date:	<u>Nancy Baker</u>	<u>1 12/13/99</u>

TITLE: PUBLIC INFORMATION AND EDUCATION

1.0 INTRODUCTION

The purpose of this procedure is to describe the methods used by Clinton Power Station to educate the public and disseminate information to the public concerning protective action(s) in the event of an emergency at Clinton Power Station.

ACN  
7/2

2.0 RESPONSIBILITY

2.1 Director-Security and Emergency Planning - is responsible for the review and implementation of this procedure.

ACN  
7/1

2.2 Manager-Nuclear Support - is responsible for approval of this procedure.

ACN  
7/2  
ACN  
7/1

3.0 DEFINITIONS

3.1 Emergency Information - Emergency Planning publication that contains emergency instructions in the event of an emergency at the Clinton Power Station.

ACN  
7/2

3.2 Resident Population - that portion of the population having year-round residences within the Clinton Power Station Plume Exposure Pathway EPZ.

3.3 Transient Population - That portion of the population which is within the CPS Plume Exposure Pathway EPZ on a temporary basis (i.e., using recreation facilities, etc.).

4.0 INSTRUCTIONS

4.1 Resident Population

4.1.1 CPS shall annually distribute emergency information to the populace within the plume exposure pathway EPZ.

ACN  
7/2

4.1.2 Emergency Information shall address, but not necessarily be limited to, the following:

4.1.2.1 Basic information on radiation

4.1.2.2 What to do in the event the Alert and Notification System (ANS) sirens are activated

4.1.2.3 Emergency Broadcast Stations (EBS)

4.1.2.4 Sheltering guides, Evacuation routes

4.1.2.5 Special needs of the handicapped

4.1.2.6 How to obtain additional information

TITLE: PUBLIC INFORMATION AND EDUCATION

4.1.3 The Director-Security and Emergency Planning is responsible for assuring the maintenance of a mailing list for the resident population within the plume exposure pathway EPZ for the purpose of distributing emergency information. || ACN 7/2

4.1.4 This mailing list will be updated annually, prior to distribution of the emergency information.

4.2 Transient Population

4.2.1 For the purpose of distribution to the transient population, CPS shall assure that adequate supplies of the Emergency Information Publication are made available to recreational areas, business, and commerce located in the plume exposure pathway EPZ. A list of locations for the Emergency Information Publication is found in Attachment 1, LOCATIONS FOR EMERGENCY INFORMATION. || ACN 7/2

4.2.2 The Director-Security and Emergency Planning shall ensure that emergency information supplies are replenished on a quarterly basis or more often, as necessary. || ACN 7/2

4.2.3 In addition to the Emergency Information Publication, recreational areas shall have emergency information posted in prominent locations. A list of these recreational areas with emergency information is found in Attachment 2, RECREATIONAL AREAS.

4.2.4 Emergency information postings in recreational areas may consist of a map and simple instructions on what to do if a siren sounds.

4.2.5 Emergency information postings shall be inspected semiannually to assure that such information is accurate and readable.

4.3 News Media

4.3.1 At least annually, CPS shall provide orientation for members of the news media to acquaint them with the CPS Emergency Plan, information concerning radiation, and the JPIC to be used in the event of an emergency at CPS. || ACN 7/2

4.3.2 CPS is responsible for scheduling, conducting and documenting this news media orientation. || ACN 7/2

5.0 REFERENCES

5.1 CPS Emergency Plan, Section 2.6.2

6.0 ATTACHMENTS

1. LOCATIONS FOR EMERGENCY INFORMATION
2. RECREATIONAL AREAS

7.0 FORMS

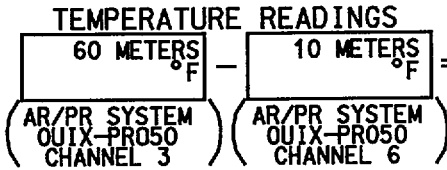
None

MANUAL OFFSITE DOSE CALCULATION

ATMOSPHERIC STABILITY CLASSIFICATIONS (ASC)

1. PRIMARY METEOROLOGICAL TOWER

a.) TEMP. DIFFERENCE ( $\Delta T$ ) =  °F  
 (AR/PR SYSTEM, OUIX-PRO50-7)



b.) AVE. WIND SPEED (10 METERS) =   
 (AR/PR SYSTEM, OUIX-PRO50-4) Miles Per Hour

RANGE OF TEMPERATURE DIFFERENC ( $\Delta T$ ) F	CIRCLE APPRO- PRIATE ASC
$\Delta T \leq -1.71$	A
$-1.71 < \Delta T \leq -1.53$	B
$-1.53 < \Delta T \leq -1.35$	C
$-1.35 < \Delta T \leq -0.45$	D
$-0.45 < \Delta T \leq 1.35$	E
$1.35 < \Delta T \leq 3.60$	F
$3.60 < \Delta T$	G

ACN 7/1

2. BACKUP METEOROLOGICAL TOWER  
 (AVAILABLE IN TSC)

AVERAGE WIND SPEED =   
 Miles Per Hour

WIND DIRECTION STANDARD DEVIATION =  $\sigma\theta$  =   
 Degrees

RANGE OF WIND DIRECTION ( $\sigma\theta$ ) STANDARD DEVIATION	CIRCLE APPRO- PRIATE ASC
$\sigma\theta \geq 22.5$	A
$22.5 > \sigma\theta \geq 17.5$	B
$17.5 > \sigma\theta \geq 12.5$	C
$12.5 > \sigma\theta \geq 7.5$	D
$7.5 > \sigma\theta \geq 3.8$	E
$3.8 > \sigma\theta \geq 2.1$	F
$2.1 > \sigma\theta$	G

3. WIND SPEED AND WEATHER CONDITIONS  
 (AR/PR SYSTEM, OUIX-PRO50, CHANNEL 4)

AVERAGE WIND SPEED =   
 Miles Per Hour

TIME OF DAY { DAYTIME  
 NIGHTTIME

SURFACE WINDS (mph)	CIRCLE APPRO- PRIATE ASC	
< 4.5	B	F
4.5-6.7	C	F
6.7-11.2	C	E
11.2-13.4	D	D
> 13.4	D	D

Note the neutral class, D, can be assumed for overcast conditions during day or night, regardless of wind speed.

4. LASALLE OR BRAIDWOOD STABILITY CLASS \_\_\_\_\_

5. NATIONAL WEATHER SERVICE

LINCOLN ILLINOIS OFFICE  
 (217) 732-4029

REPLACEMENT

MANUAL OFFSITE DOSE CALCULATION		PART 1
DATA TIME	PREPARED BY:	
	REVIEWED BY:	

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

SCOPE OF REVISION: This revision updates titles. Attachments 1 and 2 were revised to reflect the latest efficiency factors as calculated by Radiation Protection. Other small changes were made as part of the biennial review process. This revision also incorporates ACN 6/1.

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	<u>Function</u>	<u>Signature</u>	<u>Date</u>
Prepared by		W.K. Evans	7/30/99
Director-Security & Emergency Planning		M. R. Hida for D.L. Smith	11/18/99
Concurrence		J. Kaurer	11/10/99
Concurrence		NA	
Concurrence		NA	
Independent Reviewer		James C. [Signature]	11/10/99
Facility Review Group		M. [Signature]	12/7/99
Manager-Clinton Power Station		[Signature]	12/8/99
Approval/Effective Date		[Signature]	12/14/99



TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

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- 2.0 RESPONSIBILITY
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- 4.0 INSTRUCTIONS
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  - 4.2 Determination of Particulate Concentration and Projected Total Effective Dose Equivalent From Field Analysis of Air Samples
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TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

1.0 INTRODUCTION

The purpose of this procedure is to provide a method of estimating dose commitments from airborne contamination and ground deposition using environmental samples.

2.0 RESPONSIBILITY

- 2.1 Emergency Manager - is responsible for implementing this procedure.
- 2.2 Director-Security and Emergency Planning - is responsible for review of this procedure.
- 2.3 Director-Plant Radiation and Chemistry - is responsible for review of this procedure from a radiological control standpoint.
- 2.4 Dose Assessment Supervisor - is responsible for determining the radionuclides present that produce significant dose commitments to the general population.
- 2.5 Manager-Nuclear Support - is responsible for final approval of this procedure.

3.0 DEFINITIONS

- 3.1 "Dose" or "radiation dose" - is a generic term which means absorbed dose, dose equivalent, effective dose equivalent, committed dose equivalent, committed effective dose equivalent, or total effective dose equivalent, as defined below.
- 3.2 "Dose equivalent" ( $H_T$ ) - the product of the absorbed dose in tissue, quality factor, and all other necessary modifying factors at the location of interest. The units of dose equivalent are the rem.
- 3.3 "Effective dose equivalent" ( $H_E$ ) - 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 ( $H_E = \sum w_T H_T$ ).
- 3.4 "Committed dose equivalent" ( $H_{T,50}$ ) - the dose equivalent to organs or tissues of reference (T) that will be received from an intake of radioactive material by an individual during the 50-year period following the intake.
- 3.5 "Committed effective dose equivalent" ( $H_{E,50}$ ) - 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 ( $H_{E,50} = (\sum w_T H_{T,50})$ ).
- 3.6 "Total Effective Dose Equivalent" - the sum of the deep dose equivalent (for external exposures) and the committed effective dose equivalent (for internal exposures).
- 3.7 Concentration ( $\chi$ ) - in this procedure it is the amount of radioactivity present in air per unit volume. Expressed in  $\mu\text{Ci}/\text{cc}$ .

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

- 3.8 Dose Conversion Factor - a number found in tabular form that converts concentration of a radionuclide into a projected dose commitment.
- 3.9 Receptor - A hypothetical person at some point in space for whom doses are calculated by this procedure.

4.0 INSTRUCTIONS

4.1 Determination of Iodine Concentration and Projected Thyroid Dose from Field Analysis of Air Samples.

4.1.1 Obtain the following data from the Field Team Coordinator and record on Attachment 1, RADIOIODINE FIELD ANALYSIS CALCULATION SHEET.

- a. Sample Flow Rate (line 1)
- b. Sample Time (line 2)
- c. Gross Iodine Count Rate (line 3)
- d. Background Count Rate (line 4)

4.1.2 Determine net Iodine count rate by subtracting line 4 from line 3 (line 3 - line 4). Record on line 5.

4.1.3 Determine the Iodine sample activity ( $\mu\text{Ci}$ ) by multiplying the net Iodine count rate (line 5) by  $2.5 \text{ E-}6$  ( $\mu\text{Ci}/\text{cpm}$ ) and record on line 6 of Attachment 1.

4.1.4 Determine the Iodine sample volume (cc) multiplying the sample flow rate (line 1) by the sample time (line 2), and multiplying by  $2.832\text{E}+4$   $\text{cc}/\text{ft}^3$ . Record on line 7.

4.1.5 Determine sample concentration  $\mu\text{Ci}/\text{cc}$  by dividing line 6 by line 7. Record on line 8.

4.1.6 Determine the projected committed dose equivalent rate to the thyroid by multiplying line 8 by  $2.6 \text{ E}+5$  ( $\text{Rem}/\text{hr} / \mu\text{Ci}/\text{cc}$ ) and record on line 9.

4.1.7 Estimate time of exposure (6 hour default value) and record on line 10.

4.1.8 Estimate projected committed dose equivalent to the thyroid by multiplying line 9 by line 10 and record on line 11.

4.2 Determination of Particulate Concentration and Projected Total Effective Dose Equivalent (TEDE) From Field Analysis of Air Samples.

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

- 4.2.1 Obtain the following data from the Field Team Coordinator and record on Attachment 2, AIRBORNE PARTICULATE FIELD ANALYSIS CALCULATION SHEET.
  - a. Sample Flow Rate (line 1)
  - b. Sample time (line 2)
  - c. Gross Particulate Count Rate (line 3)
  - d. Background Count Rate (line 4)
- 4.2.2 Determine net particulate count rate by subtracting line 4 from line 3 (line 3 - line 4). Record on line 5.
- 4.2.3 Determine the particulate sample activity ( $\mu\text{Ci}$ ) by multiplying the net particulate count rate (line 5) by  $2.0 \text{ E-}6$  ( $\mu\text{Ci}/\text{cpm}$ ) and record on line 6 of Attachment 2.
- 4.2.4 Determine the particulate sample volume (cc) multiplying the sample flow rate (line 1) by the sample time (line 2), and multiplying by  $2.832\text{E}4$  ( $\text{cc}/\text{ft}^3$ ). Record on line 7.
- 4.2.5 Determine particulate concentration  $\mu\text{Ci}/\text{cc}$  by dividing line 6 by line 7. Record on line 8.
- 4.2.6 Determine TEDE rate by multiplying line 8 by  $1.0 \text{ E+}4$  ( $\text{Rem}/\text{hr}/\mu\text{Ci}/\text{cc}$ ) and record on line 9.
- 4.2.7 Estimate time of exposure (6 hour default value) and record on line 10.
- 4.2.8 Estimate TEDE by multiplying line 9 by line 10 and record on line 11.
- 4.3 Calculation of Projected Dose from Laboratory Analysis of Air Activity.
  - 4.3.1 Thyroid Dose.
    - 4.3.1.1 The silver zeolite cartridge should be analyzed to determine the isotopic concentrations ( $\mu\text{Ci}/\text{cc}$ ).
    - 4.3.1.2 Use the radioiodine isotopic concentrations and Attachment 3, RADIOIODINE INHALATION COMMITTED DOSE EQUIVALENT PER UNIT ACTIVITY OF EXPOSURE, to determine the radioiodine committed dose equivalent rate in  $\text{Rem}/\text{hr}$  to the thyroid for each isotope.
    - 4.3.1.3 To determine projected committed dose equivalent to the thyroid multiply the radioiodine committed dose equivalent rate ( $\text{Rem}/\text{hr}$ ) by the exposure time in hours.
  - 4.3.2 Dose Commitments Due to Inhalation of Particulate Activity.
    - 4.3.2.1 The particulate air sample should be analyzed to determine the isotopic concentrations of the particulates. ( $\mu\text{Ci}/\text{cc}$ )

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

4.3.2.2 Determine the projected committed effective dose equivalent rates for each isotope by multiplying the activity concentration by the appropriate Dose Conversion Factor (DCF) found in Attachment 4, PARTICULATE ISOTOPIC COMMITTED EFFECTIVE DOSE EQUIVALENT.

4.3.2.3 Sum isotopic projected committed effective dose equivalent rates to determine total projected committed effective dose equivalent rates. Then multiply total projected committed effective dose equivalent rate by stay time to yield total projected committed effective dose equivalent.

4.4 Projected Dose From Deposited Radionuclides

To determine the isotopes present on the surface, soil and vegetable samples will have to be analyzed. This gives the amount of contamination present for each isotope.

4.4.1 Surface Contamination and Exposure From Standing On Contaminated Ground

Exposure rates from standing on contaminated ground are best determined by surveys once the plume has passed. However, the presence of significant surface contamination can be detected and field sample data used to estimate external exposure rates, while the plume is still present.

4.4.1.1 The presence of surface contamination can be determined quickly by comparing the open window exposure rate measured at 1 m above the ground to the open window exposure rate measured at ground level with GM survey instrument.

4.4.1.2 If surface contamination is indicated obtain field samples in accordance with procedure RA-07, FIELD RADIOLOGICAL MONITORING.

4.4.1.3 Use Attachment 5, ISOTOPIC DOSES FROM DEPOSITION, to determine the projected effective dose equivalent rate for each isotope. Record ground deposition ( $\mu\text{Ci}/\text{cm}^2$ ) on Attachment 5.

4.4.1.4 Calculate isotopic projected effective dose equivalent rate and projected dose rate to the skin by multiplying ground deposition by the appropriate isotopic Dose Conversion Factor (DCF). Record results on Attachment 5.

4.4.1.5 Sum results to determine projected total effective dose equivalent rate and projected dose rate to the skin. Record results on Attachment 5.

4.4.1.6 Multiply the total projected effective dose equivalent rate by the stay time to determine a projected dose commitment for skin and projected effective dose equivalent. Assume default value of 6 hours if stay time is not known. Record data on Attachment 5.

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

4.4.2 Estimate of Milk Ingestion Thyroid Doses From Analysis of Grass Samples

These doses are by an infant drinking milk for one day.

NOTE

Milk Ingestion Doses should be calculated only for those areas where dairy animals are located.

4.4.2.1 Obtain Iodine concentration of grass sample. Concentration should be in Micro Ci/Kg. Record results on line 1a-5a of Attachment 6, DOSE TO INFANT THYROID FROM IODINE INGESTION.

4.4.2.2 Obtain projected dose to infant thyroid by multiplying line 1a through 5a by line 1b through 5b respectively and record results on lines 1c - 5c.

4.4.2.3 Sum individual projected isotopic doses lines 1c - 5c and record on line 6c.

4.4.3 Calculation of Infant Milk Ingestion Thyroid Dose From Analysis of Milk Samples

This method is much more accurate than analysis of grass samples. However, it must be noted that it may take several days for Iodine activity to build up in the milk.

4.4.3.1 Obtain concentration of milk sample micro Ci/liter for each Iodine isotope. Record results on Attachment 6 line 7a - 11a.

4.4.3.2 Calculate the projected thyroid dose from each radionuclide by multiplying lines 7a - 11a by lines 7b - 11b respectively and record results on line 7c - 11c.

4.4.3.3 Obtain total milk ingestion projected thyroid dose by summing lines 7c - 11c and record results on line 12c.

4.4.4 Other Food Crop Doses

Dose from other food crops are beyond the scope of this procedure. All food crop doses shall ultimately be determined in accordance with the method contained in the Clinton Power Station Offsite Dose Calculation Manual.

5.0 REFERENCES

- 5.1 Regulatory Guide 1.109, Calculation of Annual Doses to Man from routine Releases of Reactor Effluents for the Purpose of Evaluating Compliance with 10CFR50, Appendix I.
- 5.2 Radiological Health Handbook, 1970
- 5.3 10CFR20, "STANDARDS FOR PROTECTION AGAINST RADIATION"
- 5.4 CPS Emergency Plan, Section 4.2.2 and 4.3.2

TITLE: DOSE RATE DETERMINATION BASED ON ENVIRONMENTAL AIR SAMPLES

- 5.5 U. S. DEPARTMENT OF ENERGY. External Dose-Rate Conversion Factors for Calculation of Dose to the Public, DOE/EH-0070, U.S. Department of Energy, Washington, D.C. 20545, 1988.
- 5.6 Clinton Power Station Offsite Dose Calculational Manual
- 5.7 RTE 97-018-TB Rev. 1

6.0 ATTACHMENTS

- 1. RADIOIODINE FIELD ANALYSIS CALCULATION SHEET
- 2. AIRBORNE PARTICULATE FIELD ANALYSIS CALCULATION SHEET
- 3. RADIOIODINE INHALATION COMMITTED DOSE EQUIVALENT PER UNIT ACTIVITY OF EXPOSURE
- 4. PARTICULATE ISOTOPIC COMMITTED EFFECTIVE DOSE EQUIVALENT
- 5. ISOTOPIC DOSES FROM DEPOSITION
- 6. DOSE TO INFANT THYROID FROM IODINE INGESTION

7.0 FORMS

None

Sample Location \_\_\_\_\_

Field Team No. \_\_\_\_\_

Time of Sample  
(Beginning of Sample) \_\_\_\_\_

Calculated By \_\_\_\_\_

Sample Identification No. \_\_\_\_\_

RADIOIODINE FIELD ANALYSIS CALCULATION SHEET

Obtain the following information from the Field Team Coordinator.

1. Sample Flow Rate (cfm) \_\_\_\_\_
2. Sampling Time (min) \_\_\_\_\_
3. Gross Iodine Count Rate (cpm) \_\_\_\_\_
4. Background Count Rate \_\_\_\_\_

Calculate the Following Data

5. Net Iodine Count Rate (cpm)  
Line 3 - Line 4 \_\_\_\_\_
6. Iodine Sample Activity ( $\mu\text{Ci}$ )  
Line 5 x  $2.5 \text{ E-}6$  ( $\mu\text{Ci}/\text{cpm}$ ) \_\_\_\_\_
7. Sample Volume (cc)  
Line 1 x Line 2 x  $2.832\text{E}4$  \_\_\_\_\_
8. Radioiodine Concentration ( $\mu\text{Ci}/\text{cc}$ )  
Line 6  $\div$  Line 7 \_\_\_\_\_
9. Committed Dose Equivalent Rate to  
the Thyroid (rem/hr)  
Line 8 x  $2.6 \text{ E+}5$  (Rem/hr/ $\mu\text{Ci}/\text{cc}$ ) \_\_\_\_\_
10. Estimated Exposure time (hrs)  
(Assume 6 hours if value is not known) \_\_\_\_\_
11. Committed Dose Equivalent to the  
Thyroid (Rem) Line 9 x Line 10 \_\_\_\_\_



Sample Location \_\_\_\_\_

Field Team No. \_\_\_\_\_

Time of Sample  
(Beginning of Sample) \_\_\_\_\_

Calculated By \_\_\_\_\_

Sample Identification No. \_\_\_\_\_

AIRBORNE PARTICULATE FIELD ANALYSIS CALCULATION SHEET

Obtain the following information from the Field Team Coordinator.

1. Sample Flow Rate (cfm) \_\_\_\_\_
2. Sampling Time (min) \_\_\_\_\_
3. Gross Particulate Count Rate \_\_\_\_\_
4. Background Count Rate \_\_\_\_\_

Calculate the Following Data

5. Net Particulate Count Rate (cpm)  
Line 3 - Line 4 \_\_\_\_\_
6. Particulate Sample Activity ( $\mu\text{Ci}$ )  
Line 5 x  $2.0 \text{ E-}6$  ( $\mu\text{Ci}/\text{cpm}$ ) \_\_\_\_\_
7. Sample Volume (cc)  
Line 1 x Line 2 x  $2.832\text{E}+4$  \_\_\_\_\_
8. Particulate Concentration ( $\mu\text{Ci}/\text{cc}$ )  
Line 6  $\div$  Line 7 \_\_\_\_\_
9. TEDE Rate (rem/hr)  
Line 8 x  $1.0 \text{ E}+4$  (Rem/hr/ $\mu\text{Ci}/\text{cc}$ ) \_\_\_\_\_
10. Estimated Exposure Time (hrs)  
(Assume 6 hours if value is not known) \_\_\_\_\_
11. TEDE (Rem)  
Line 9 x Line 10 \_\_\_\_\_

Sample Location \_\_\_\_\_

Field Team No. \_\_\_\_\_

Time of Sample  
 (Beginning of Sample) \_\_\_\_\_

Calculated By \_\_\_\_\_

Sample Identification No. \_\_\_\_\_

RADIOIODINE INHALATION COMMITTED DOSE EQUIVALENT PER UNIT  
 ACTIVITY OF EXPOSURE

Isotope <sup>†</sup>	Dose Conversion Factor	Concentration	Exposure Duration	Committed Dose Equivalent to the Thyroid
	$\frac{(\text{Rem/hr})}{(\mu\text{Ci/cc})}$	$\times (\mu\text{Ci/cc}) = \frac{\text{Rem}}{\text{hr}}$	$\times$	$(\text{hr})^* = (\text{Rem})$
I-131	1.3E+6x		x	= _____
I-132	7.7E+3x		x	= _____
I-133	2.2E+5x		x	= _____
I-134	1.3E+3x		x	= _____
I-135	3.8E+4x		x	= _____

\* Assume 6 hours for a default value.

† From Laboratory Analysis of Air Activity.

TOTAL = \_\_\_\_\_

Sample Location \_\_\_\_\_

Field Team No. \_\_\_\_\_

Time of Sample  
 (Beginning of Sample) \_\_\_\_\_

Calculated By \_\_\_\_\_

Sample Identification No. \_\_\_\_\_

PARTICULATE ISOTOPIC COMMITTED EFFECTIVE DOSE EQUIVALENTS

Isotope	Concentration ( $\mu\text{Ci/cc}$ )	DCF ( $\text{Rem}/\mu\text{Ci/cc/hr}$ )	Committed Effective Dose Equivalent Rates ( $\text{Rem/hr}$ )
Co-58		1.3E+4	
Co-60		2.6E+5	
Sr-89		5.0E+4	
Sr-90		1.6E+6	
Ru-103		1.1E+4	
Ru-106		5.7E+5	
TE-132		1.1E+4	
Cs-137/ Ba-137		3.8E+4	
Ba-140		4.5E+3	
Ce-144		4.5E+5	

Sum of Committed Effective Dose Equivalents = Sum of Committed Effective Dose Equivalent Rates \_\_\_\_\_  
 X Stay Time = \_\_\_\_\_ Rem

ILLINOIS POWER COMPANY  
 CLINTON POWER STATION  
 EMERGENCY PLAN IMPLEMENTING PROCEDURE

PROCEDURE: RA-14  
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Sample Location \_\_\_\_\_

Field Team No. \_\_\_\_\_

Time of Sample  
 (Beginning of Sample) \_\_\_\_\_

Calculated By \_\_\_\_\_

Sample Identification No. \_\_\_\_\_

ISOTOPIC DOSES FROM DEPOSITION

Isotope	$\mu\text{Ci}/\text{cm}^2$	EDE DCF Rem/hr/ $\mu\text{Ci}/\text{cm}^2$	SKIN DCF Rem/hr/ $\mu\text{Ci}/\text{cm}^2$	EDE (Rem/hr) Rate	Skin Dose (Rem/hr) Rate
Co-58		5.00E-2	1.4E-3		
Ce-60		1.2E-1	5.6E-3		
Sr-89		7.0E-6	1.5E+0		
Ru-103		2.5E-2	7.8E-3		
Ru-106		1.1E-2	8.7E-3		
Te-132		1.1E-2	5.4E-5		
Cs-137+Ba-137		3.1E-2	2.9E-1		
Ba-140		9.8E-3	9.6E-2		
Ce-144+RP-144		2.3E-3	1.1E-2		

Total EDE Rate

\_\_\_\_\_ Total EDE  
 \_\_\_\_\_ Rem/hr

\_\_\_\_\_ Total Skin  
 \_\_\_\_\_ Rem/hr

Total EDE = Stay Time (hrs) x Total EDE Rate

\_\_\_\_\_ Total EDE  
 \_\_\_\_\_ (Rem)

\_\_\_\_\_ Total Skin  
 \_\_\_\_\_ (Rem)

DOSE TO INFANT THYROID FROM IODINE INGESTION

GRASS - COW MILK PATHWAY

	a	b	c
	ISOTOPE CONCENTRATION	DOSE FACTOR	ISOTOPIC DOSE
	Micro Ci/Kg	Rem/Micro Ci/Kg	Rem
1	I-131	3.51E+0	
2	I-132	1.92E-08	
3	I-133	1.9E-1	
4	I-134	2.6E-19	
5	I-135	1.34E-3	
6	Total Dose		

MILK

	a	b	c
	ISOTOPE CONCENTRATION	DOSE FACTOR	ISOTOPIC DOSE
	Micro Ci/Liter	Rem/Micro Ci/Liter Rem	
7	I-131	1.39E+1	
8	I-132	1.58E-1	
9	I-133	3.31E+0	
10	I-134	4.1E-2	
11	I-135	6.49E-1	
12	Total Dose		