

ILLINOIS POWER COMPANY  
CLINTON POWER STATION

CPS No. OAP1895.02N  
Revision No. 1

TITLE: ALARA COMMITTEE

Scope of Revision:

Rev. 1: Clarified application of economic costs in ALARA cost-benefit reviews, Corrected titles of personnel. Changed membership of ALARA Committee to include Assistant Power Plant Manager, and NSE representative.

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SIGNATURES				
	Rev. 1			
Prepared by	<i>R.E. Harris</i> R.E. Harris			
Interface Review	<i>D. J. Lane</i>			
	<i>S. J. Smith</i>			
	<i>R. J. Smith</i>			
Department Head/ Group Supervisor	<i>R. J. Smith</i>			
Assistant Power Plant Manager	<i>C. J. Smith</i>			
Compliance Supervisor	<i>S. J. Smith</i>			
FRG Approval				
Power Plant Manager Approval	<i>T. J. Smith</i>			
Date of Issue	3/4/81			

ILLINOIS POWER COMPANY  
CLINTON POWER STATION

CPS No. OAP1895.02N  
Revision No. 0

TITLE: ALARA COMMITTEE

Scope of Revision:

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SIGNATURES				
	Original	Rev. 1	Rev. 2	Rev. 3
Prepared by	<i>Eugene</i> T. Bergene			
Interface Review	<i>D. J. Cain</i>			
	<i>[Signature]</i>			
	<i>[Signature]</i>			
Quality Control Supervisor	<i>G. W. Bell</i>			
Department Head Approval	<i>[Signature]</i>			
FRG Approval				
Plant Superintendent Submittal	<i>[Signature]</i>			
Plant Manager Approval	<i>TF Plunkett</i>			
Date of Issue	10/25/78			

LIST OF EFFECTIVE PAGESPage No.

i  
ii  
1  
2  
3  
4  
5  
6  
7

Rev. No.

1  
1  
1  
1  
1  
1  
1  
0  
0

Appendix

A1

Rev. No.

0

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TABLE OF CONTENTS

- 1.0 Purpose
- 2.0 Discussion/Definitions
- 3.0 Responsibility
- 4.0 Precautions - None
- 5.0 Prerequisites - None
- 6.0 Limitations and Actions - None
- 7.0 Materials and/or Test Equipment - None
- 8.0 Procedure
  - 8.1 Composition of the ALARA Committee
  - 8.2 Authority and Responsibilities
  - 8.3 ALARA Committee Meetings
  - 8.4 Committee Approval and Records
- 9.0 Acceptance Criteria - None
- 10.0 Final Conditions - None
- 11.0 References
- 12.0 Appendices
- 13.0 Documents - None

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1.0 PURPOSE

The purpose of this procedure is to establish the ALARA Committee and to provide a charter for the conduct of its activities.

2.0 DISCUSSION/DEFINITIONS

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2.1 Discussion

The ALARA Committee is the group designed to ensure the development and implementation of principles that shall ensure that occupational exposures to ionizing radiation and contamination will be "as low as reasonably achievable" (ALARA).

2.2 Definitions

2.2.1 ALARA principles - ALARA principles refer to a design or conduct of operation that will allow operations, maintenance, inspections, and decommissioning of a nuclear facility with the consequent radiation exposure to personnel as low as reasonably achievable.

2.2.2 Reasonably achievable - Reasonably achievable is judged by considering the state of the technology and the economics of improvements in relation to all of the benefits from these improvements.

In assessing the economic portion of potential modifications or programs the following guidelines should be used. When only the health benefits to the general public or plant radiation workers need be considered the 10CFR50 value of \$1000 (1975 dollars) per man-rem, integrated over the period of exposure, should be used. When a potential dose reduction affects plant radiation workers because of the added cost of replacement workers, a dollar value of \$6000 (1975 dollars) per man-rem

1

per year, averaged dose rate reduction, should be used. This figure represents an economic equivalent of a dose rate reduction (dose per year) and cannot be integrated over the period of exposure. However, an additional value of \$1000 per man-rem, integrated over the period of exposure, should be added to this calculation to account for the health benefits to the radiation workers.

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It should be emphasized that a dollar value, as calculated above, is not sufficient justification alone in deciding on the merits of a given modification. Instead, careful consideration of all factors followed by prudent judgment related to this consideration will dictate the final decision.

### 3.0 RESPONSIBILITY

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The Power Plant Manager is responsible for ensuring the proper implementation of this procedure. The Supervisor - RadChem is responsible for review of this procedure. The Supervisor - Radiation Protection (SRP) is responsible for providing technical guidance and assistance to persons involved in compliance with the ALARA program.

### 4.0 PRECAUTIONS

None

### 5.0 PREREQUISITES

None

### 6.0 LIMITATIONS AND ACTIONS

None

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7.0 MATERIALS AND/OR TEST EQUIPMENT

None

8.0 PROCEDURE

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8.1 Composition of the ALARA Committee

8.1.1 The ALARA Committee shall be composed of the following personnel:

Power Plant Manager  
Assistant Power Plant Manager  
Supervisor - RadChem  
Supervisor - Radiation Protection  
Member-at-Large  
Nuclear Station Engineering Representative

8.1.2 The Power Plant Manager shall select the Member-at-Large and selection should normally be from the Facility Review Group. Selection shall be based on the expertise required at the ALARA Committee meeting. The Member-at-Large and the Nuclear Station Engineering representative should be so noted in the meeting minutes.

8.1.3 The Power Plant Manager or designee shall act as chairperson of the ALARA Committee.

8.1.4 Alternates to the designated member shall be appointed by the designated member with concurrence by the Chairperson. The Alternate should be so noted in the meeting minutes.

8.1.5 A quorum of the ALARA Committee consists of the Power Plant Manager or designee and any three additional members.

## 8.2 Authority and Responsibilities

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- 8.2.1 In accordance with the directive by the Vice-President of Illinois Power Company (letter, L. J. Koch to T. F. Plunkett, April 27, 1978; see Appendix A of this procedure), the ALARA Committee shall have the authority and responsibilities as delineated in CPS No. OAP1895.00N, ALARA PROGRAM.
- 8.2.2 The ALARA Committee should be aware of matters relating to ALARA principles at Clinton Power Station.
- 8.2.3 Each member of the ALARA Committee should be familiar with the documents and information provided, preparatory to ALARA review of an area.
- 8.2.4 Each member of the ALARA Committee should ensure that all areas of concern are brought to the attention of the ALARA Committee Chairperson.
- 8.2.5 Members of the ALARA Committee are responsible for attending ALARA Committee meetings, particularly if areas in their expertise are to be discussed.

## 8.3 ALARA Committee Meetings

- 9.3.1 During design and construction activities, the ALARA Committee shall meet at least twice a year and/or whenever two or more ALARA Committee members request a meeting.

### NOTE

Requested meetings may satisfy the requirement of the two meetings per year.

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8.3.2 During operational activities the ALARA Committee shall meet at least twice a year, within 30 days prior to a refueling and/or major planned maintenance shutdown (greater than 21 days), and whenever two or more ALARA Committee members request a meeting.

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8.3.3 Approximately one week prior to a normally scheduled ALARA Committee meeting, the Supervisor - Radiation Protection shall submit to the committee members the meeting agenda, status of "open" items and a copy of all ALARA Reviews generated since the last meeting.

8.4 Committee Approval and Records

8.4.1 A majority vote by ALARA Committee members (or alternates) present or polled shall constitute the ALARA Committee position. The chairperson shall sign for the ALARA committee.

8.4.2 If all ALARA Committee members are not available, it is the chairperson's prerogative to allow voting by poll.

8.4.3 It is the prerogative of the chairperson to table all or any business conducted during the committee meeting to the next regularly scheduled meeting or to a date specified which is prior to the next regularly scheduled meeting.

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8.4.4 The ALARA Committee shall provide written notification within 24 hours to the Director of the Nuclear Review and Audit Group (NRAG) if a disagreement occurs between a majority of the ALARA Committee and the Power Plant Manager; however, the Power Plant Manager shall have the responsibility for resolution of such disagreements pursuant to CPS Technical Specification 6.5.1.7.

8.4.5 The ALARA Committee shall maintain written minutes of each meeting. These minutes, as a minimum, shall contain:

- a. Date and time of meeting
- b. Persons attending meeting.
- c. Summary of items discussed and resolutions reached.
- d. Votes taken by the ALARA Committee.
- e. Open and Action items.

8.4.6 ALARA Committee minutes shall be distributed, as a minimum, to all ALARA Committee members, and the Director of the Nuclear Review and Audit Group (NRAG).

8.4.7 The ALARA Committee minutes shall be retained for the duration of the facility operating license.

9.0 ACCEPTANCE CRITERIA

None

10.0 FINAL CONDITIONS

None

11.0 REFERENCES

11.1 CPS Technical Specification - Section 6

11.2 Regulatory Guide 8.8 Rev. 3 (June, 1978),  
"Information Relevant to Ensuring that Occupational  
Exposure at Nuclear Power Stations Will Be As Low  
As Is Reasonably Achievable".

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12.0 APPENDICES

- A. Implementation of the ALARA Program for Clinton Power Station, Letter, L.J. Koch to T.F. Plunkett, April 27, 1978.

13.0 DOCUMENTS

None

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April 27, 1978

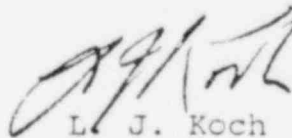
T. F. Plunkett, F-33

Implementation of the ALARA Program  
for Clinton Power Station

The U.S. Nuclear Regulatory Commission (NRC) has established requirements that nuclear power plant licensees implement a program to achieve radiation exposure both operationally and to the general public, "as low as reasonably achievable (ALARA)."

The attached document describes Illinois Power Company's plans to ensure that all aspects of our ongoing nuclear plant design and eventual operation be conducted in a manner such that radiation exposure will be as low as reasonably achievable.

You are hereby directed to fully develop and implement the ALARA program at the Clinton Power Station. By copy of this memorandum, I am directing that the Power Production and Generation Engineering Departments participate in the ALARA program as their specific responsibilities so relate.

  
L. J. Koch

Att.

cc: W. C. Gerstner  
J. D. Geier, F-33  
T. W. Schroeder, A-05  
B. L. Blackburn, A-05

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