



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 1 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 1</u>		
1.0, 1.1, 1.2, and 1.3 Table Of Contents	2	32.0
Introduction and Summary		
Plant Site Summary		
Design Highlights		
Summary Plant Description		
1.4 Table Of Contents	4	32.0
Plant Specific Design Criteria	45	32.0
1.5, 1.6, 1.7, 1.8, & 1.9 Table Of Contents	2	26.0
Plant Operation		
Research and Development Requirements		
Quality Assurance		
Identification of Contractors		
Facility Safety Conclusions		
Tables		
Table 1.0-1	3	32.0
Table 1.2-1	22	26.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 2 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 1</u>		
Table 1.6-1	21	30.0
Figures		
Figure 1-1	1	17.0
Figure 1.3-1(was revised for 27.51, but not physically incorporated until 28.0)	1	28.0
Figure 1.3-1A(was revised for 27.54, but not physically incorporated until 28.0)	1	28.0
Figure 1.3-2	1	16.3
Figure 1.3-3	1	21.2
Figure 1.3-4	1	16.3
Figure 1.3-5	1	16.3
Figure 1.3-6	1	16.3
Figure 1.3-7	1	31.0
Figure 1.3-8	1	26.0
Figure 1.3-9	1	30.0
Figure 1.3-10	1	23.0
Figure 1.3-11	1	16.3



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 3 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Table Of Contents	5	29.0
Site And Environment	87	29.0
Tables		
Table 2.1-1	1	16.1
Table 2.1-2	2	16.1
Table 2.1-3	1	16.1
Table 2.1-5	1	16.1
Table 2.1-6	1	16.1
Table 2.1-6A	1	16.1
Table 2.1-7	1	16.1
Table 2.1-7A	1	16.1
Table 2.1-8	1	16.1
Table 2.1-8A	1	16.1
Table 2.1-8B	1	16.1
Table 2.1-9	1	16.1
Table 2.1-12	1	16.1
Table 2.2-1	2	16.1
Table 2.2-2	2	16.1
Table 2.2-3	1	23.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 4 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Table 2.2-4	1	23.0
Table 2.2-5	1	23.0
Table 2.2-6	1	23.0
Table 2.2-7	1	23.0
Table 2.2-8	1	23.0
Table 2.2-9	1	23.0
Table 2.2-10	1	23.0
Table 2.2-11	1	28.0
Table 2.2-12	2	28.0
Table 2.2-13	1	23.0
Table 2.2-14	1	23.0
Table 2.2-15	1	23.0
Table 2.2-16	1	23.0
Table 2.2-17	1	23.0
Table 2.2-18	1	23.0
Table 2.2-19	1	23.0
Table 2.2-20	1	23.0
Table 2.5-1	1	16.2
Table 2.6-1	2	16.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 5 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Table 2.6-2	5	16.6
Table 2.6-3	2	16.1
Table 2.6-4	2	16.1
Table 2.6-5	4	16.1
Table 2.6-6	3	19.1
Table 2.9-1	1	21.0
Table 2.9-2	5	21.2
Figures		
Figure 2.1-1	1	07/1982
Figure 2.1-2	1	07/1982
Figure 2.1-3 (was revised for 27.51, but not physically incorporated until 28.0)	1	28.0
Figure 2.1-4	1	07/1982
Figure 2.1-4A	1	07/1982
Figure 2.1-4B (was revised for 27.54, but not physically incorporated until 28.0)	1	28.0
Figure 2.1-5	1	07/1995
Figure 2.1-6	1	07/1995
Figure 2.1-6A	1	07/1995
Figure 2.1-6B	1	07/1995
Figure 2.1-7	1	07/1995



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 6 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Figure 2.1-7A	1	07/1995
Figure 2.1-7B	1	07/1995
Figure 2.1-8	1	07/1995
Figure 2.1-8A	1	07/1995
Figure 2.1-8B	1	07/1995
Figure 2.1-9	1	07/1993
Figure 2.1-10	1	07/1993
Figure 2.2-1	1	07/1982
Figure 2.2-2	1	07/1993
Figure 2.2-3	1	07/1993
Figure 2.2-4	1	07/1993
Figure 2.2-5	1	07/1993
Figure 2.2-6	1	07/1993
Figure 2.2-7	1	07/1993
Figure 2.2-8	1	07/1993
Figure 2.2-9	1	07/1993
Figure 2.2-10	1	07/1993
Figure 2.2-11	1	07/1993
Figure 2.2-12	1	07/1993



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 7 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Figure 2.2-13	1	07/1982
Figure 2.2-14	1	07/1982
Figure 2.2-15	1	07/1982
Figure 2.2-16	1	07/1982
Figure 2.2-17	1	07/1982
Figure 2.2-18	1	07/1982
Figure 2.2-19	1	07/1982
Figure 2.2-20	1	07/1982
Figure 2.2-21	1	07/1982
Figure 2.2-22	1	07/1982
Figure 2.2-23	1	07/1992
Figure 2.3-1	1	07/1982
Figure 2.3-2	1	07/1982
Figure 2.5-1	1	07/1982
Figure 2.5-1A	1	07/1996
Figure 2.5-2	1	07/1982
Figure 2.5-3	1	07/1982
Figure 2.5-3A	1	07/1982
Figure 2.5-3B	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 8 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Figure 2.5-3C	1	07/1982
Figure 2.5-3D	1	07/1982
Figure 2.5-3E	1	07/1982
Figure 2.5-3F	1	07/1982
Figure 2.5-3G	1	07/1982
Figure 2.5-3H	1	07/1982
Figure 2.5-3I	1	07/1982
Figure 2.5-3J	1	07/1982
Figure 2.6-1	1	07/1992
Figure 2.6-2	1	07/1982
Figure 2.6-3	1	07/1982
Figure 2.6-4	1	07/1992
Figure 2.6-5	1	07/1992
Figure 2.6-6	1	07/1992
Figure 2.6-7	1	07/1992
Figure 2.6-8	1	07/1997
Figure 2.6-9	1	07/1992
Figure 2.6-10	1	07/1992
Figure 2.6-11	1	07/1997



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 9 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 2</u>		
Figure 2.6-12	1	07/1992



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 10 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 1</u>		
Table Of Contents	7	32.0
Unit 1 Reactor	113	32.0
Tables		
Table 3.2.1-1	3	16.1
Table 3.3.1-1	3	27.0
Table 3.3.1-2	1	16.4
Table 3.3.1-3	1	16.4
Table 3.4.1-1	2	24.0
Table 3.4.1-2	1	16.4
Table 3.4.1-3	1	16.1
Table 3.5.1-1	2	25.0
Table 3.5.1-2	1	24.0
Table 3.5.1-3	1	29.0
Table 3.5.1-3A	1	29.0
Table 3.5.2-1	1	24.0
Table 3.5.2-2	1	24.0
Table 3.5.2-3	1	24.0
Table 3.5.3-1	3	26.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 11 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 1</u>		
Figures		
Figure 3.2.1-1	1	07/1982
Figure 3.2.1-2	1	07/1982
Figure 3.2.1-3	1	07/1982
Figure 3.2.1-4	1	07/1982
Figure 3.2.1-5	1	19.1
Figure 3.2.1-6	1	19.1
Figure 3.2.1-7	1	07/1982
Figure 3.2.1-8	1	07/1982
Figure 3.2.1-9	3	07/1982
Figure 3.2.1-10	1	07/1982
Figure 3.2.1-11	1	07/1982
Figure 3.2.1-12	1	07/1982
Figure 3.2.1-13	1	21.0
Figure 3.2.1-14	1	07/1982
Figure 3.2.1-15	1	07/1996
Figure 3.3.1-1	1	07/1982
Figure 3.3.1-2	1	07/1984
Figure 3.3.1-3	1	07/1984



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 12 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 1</u>		
Figure 3.3.1-4	1	07/1984
Figure 3.3.1-11	1	07/1984
Figure 3.3.1-12	1	07/1984
Figure 3.3.1-13	1	07/1984
Figure 3.3.1-14	1	07/1984
Figure 3.3.1-15	1	07/1984
Figure 3.3.1-16	1	07/1984
Figure 3.3.1-17	1	07/1992
Figure 3.4.1-1	1	07/1982
Figure 3.4.1-2	1	07/1982
Figure 3.4.1-3	1	07/1982
Figure 3.4.1-4	1	07/1982
Figure 3.4.1-4A	1	07/1982
Figure 3.4.1-5	1	07/1982
Figure 3.4.1-6	1	07/1982
Figure 3.4.1-7	1	07/1982
Figure 3.4.1-8	1	07/1982
Figure 3.4.1-9	1	07/1982
Figure 3.5.1-1	1	25.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 13 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 1</u>		
Figure 3.5.1-2	1	24.0
Figure 3.5.1-3	1	24.0
Figure 3.5.1-4	1	24.0
Figure 3.5.1-5	1	24.0
Figure 3.5.1-6	1	24.0
Figure 3.5.1-7	1	24.0
Figure 3.5.1-8	1	24.0
Figure 3.5.2-1	1	24.0
Figure 3.5.2-2	1	24.0
Figure 3.5.3-1	1	07/1990
Figure 3.5.3-2	1	07/1990



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 14 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 2</u>		
Table Of Contents	10	31.0
Unit 2 Reactor	163	31.0
Tables		
Table 3.1-1	8	26.0
Table 3.1-2	2	16.4
Table 3.1-3	1	16.4
Table 3.2-1	1	26.0
Table 3.3-1	4	26.0
Table 3.3-2	2	26.0
Table 3.3-3	1	25.0
Table 3.3-4	1	16.4
Table 3.3-6	1	19.1
Table 3.4-1	4	26.0
Table 3.4-2	1	18.2
Table 3.4-3	2	18.2
Table 3.4-4	2	16.4



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 15 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 2</u>		
Figures		
Figure 3.2-1	1	26.0
Figure 3.2-2	1	27.0
Figure 3.2-3	1	26.0
Figure 3.2-4	1	19.0
Figure 3.2-5	1	05/1991
Figure 3.2-5A	1	05/1991
Figure 3.2-6	1	19.0
Figure 3.2-6A	1	29.0
Figure 3.2-7	1	19.0
Figure 3.2-8	1	29.0
Figure 3.2-9	1	19.1
Figure 3.2-10	1	07/1982
Figure 3.2-11	1	16.4
Figure 3.2-12	1	16.4
Figure 3.2-13	1	16.4
Figure 3.2-15A	1	16.4
Figure 3.2-15B	1	19.2
Figure 3.2-16A	1	16.4
Figure 3.2-16B	1	19.2



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 16 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 2</u>		
Figure 3.2-17	1	16.4
Figure 3.2-18	1	16.4
Figure 3.2-19	1	16.4
Figure 3.2-20	1	21.2
Figure 3.2-21	1	21.2
Figure 3.2-23	1	07/1982
Figure 3.2-24	1	07/1982
Figure 3.3-1	1	16.4
Figure 3.3-2	1	16.4
Figure 3.3-3	1	16.4
Figure 3.3-4	1	07/1991
Figure 3.3-5	1	07/1991
Figure 3.3-6	1	16.4
Figure 3.3-7	1	16.4
Figure 3.3-8	1	16.4
Figure 3.3-9	1	16.4
Figure 3.3-10	1	16.4
Figure 3.3-11	1	16.4
Figure 3.3-12	1	16.4
Figure 3.3-13	1	16.4



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 17 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 2</u>		
Figure 3.3-14	1	07/1991
Figure 3.3-15	1	16.4
Figure 3.3-16	1	07/1991
Figure 3.3-20	1	16.4
Figure 3.3-21	1	16.4
Figure 3.3-22	1	16.4
Figure 3.3-23	1	16.4
Figure 3.3-24	1	16.4
Figure 3.3-25	1	07/1991
Figure 3.3-26	1	16.4
Figure 3.3-27	1	16.4
Figure 3.3-28	1	07/1991
Figure 3.3-29	1	07/1991
Figure 3.3-30	1	07/1991
Figure 3.3-31	1	16.4
Figure 3.3-32	1	16.4
Figure 3.3-33	1	07/1991
Figure 3.3-34	1	07/1991
Figure 3.3-35	1	07/1991
Figure 3.3-36	1	07/1991



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 18 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 3 UNIT 2</u>		
Figure 3.3-37	1	07/1991
Figure 3.3-38	1	07/1991
Figure 3.4-1	1	07/1991
Figure 3.4-2	1	07/1991
Figure 3.4-3	1	07/1991
Figure 3.4-4	1	07/1991
Figure 3.4-5	1	07/1991
Figure 3.4-6	1	07/1991
Figure 3.4-7	1	07/1991
Figure 3.4-8	1	07/1991
Figure 3.4-9	1	07/1991
Figure 3.4-10	1	07/1991
Figure 3.4-11	1	07/1991
Figure 3.4-12	1	07/1991
Figure 3.4-13	1	07/1991
Figure 3.4-14	1	07/1991



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 19 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 4</u> <u>REACTOR COOLANT SYSTEM</u>		
Section 4.1 - Table Of Contents	1	27.0
Design Bases	12	27.0
Section 4.2 - Table of Contents	2	32.0
System Design and Operation	24	32.0
Sections 4.3 & 4.4 - Table of Contents	1	32.0
System Design Evaluation	19	32.0
Safety Limits and Conditions		
Section 4.5 - Table of Contents	1	32.0
Tests and Inspections	18	32.0
Tables		
Table 4.1-1	2	27.0
Table 4.1-2	1	32.0
Table 4.1-3	2	27.0
Table 4.1-4	2	32.0
Table 4.1-5	2	32.0
Table 4.1-6	2	17.0
Table 4.1-7	1	27.0
Table 4.1-8	1	27.0
Table 4.1-9	1	29.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 20 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 4</u> <u>REACTOR COOLANT SYSTEM</u>		
Table 4.1-10	3	26.0
Table 4.1-11	3	16.1
Table 4.1-12	2	24.0
Table 4.1-13	1	20.1
Table 4.2-1	2	21.2
Table 4.2-2	1	17.0
Table 4.3-1	1	21.0
Table 4.3-2	1	21.0
Table 4.5-1	4	17.0
Figures		
Figure 4.2-1	1	21.2
Figure 4.2-1A	1	20.0
Figure 4.2-2	1	07/1982
Figure 4.2-2A	1	07/1982
Figure 4.2-3	1	07/1982
Figure 4.2-4	1	18.0
Figure 4.2-4A	1	16.6
Figure 4.2-4B	1	16.6
Figure 4.2-4C	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 21 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 4</u> <u>REACTOR COOLANT SYSTEM</u>		
Figure 4.2-4D	1	16.6
Figure 4.2-4E	1	16.6
Figure 4.2-5	1	07/1982
Figure 4.2-6	1	07/1982
Figure 4.2-7	1	07/1982
Figure 4.2-8	1	07/1982
Figure 4.2-9	1	07/1982
Figure 4.3-1	1	07/1982
Figure 4.3-2	1	07/1982
Figure 4.3-3	1	07/1982
Figure 4.5-1	1	07/1982
Figure 4.5-2	1	23.0
Figure 4.5-3	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 22 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Table Of Contents	14	32.0
Containment System	195	32.0
Tables		
Table 5.1-1	3	28.0
Table 5.2-1	1	16.1
Table 5.2-2	3	16.1
Table 5.2-3	1	16.6
Table 5.2-4	1	29.0
Table 5.2-5	2	32.0
Table 5.2-6	1	16.1
Table 5.2-7	1	17.0
Table 5.2-8	1	17.1
Table 5.3.2-1	2	17.0
Table 5.3.4-1	1	17.0
Table 5.3.5.1-1	1	17.2
Table 5.3.5.2-1	1	17.2
Table 5.3.5.2-2	1	17.2
Table 5.3.5.3-1	1	17.2
Table 5.3.5.3-2	1	17.2
Table 5.3.5.6-1	2	17.2



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 23 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Table 5.3.5.8-1	1	17.2
Table 5.3.5.9-1	1	17.2
Table 5.3.5.10-1	1	17.2
Table 5.3.5.10-2	1	17.2
Table 5.3.5.10-3	1	17.2
Table 5.3.5.12-1	1	17.2
Table 5.4-1	27	23.0
Table 5.8-1	2	24.0
Table 5.8-2	2	24.0
Figures		
Figure 5.2-1	1	07/1982
Figure 5.2-2	1	16.6
Figure 5.2-3	1	07/1982
Figure 5.2-4	1	07/1982
Figure 5.2-5	1	19.3
Figure 5.2.2-1	1	07/1982
Figure 5.2.2-1A	1	21.2
Figure 5.2.2-2	1	16.6
Figure 5.2.2-2A	1	07/1982
Figure 5.2.2-3	1	17.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 24 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.2.2-4	1	07/1982
Figure 5.2.2-4A	1	07/1982
Figure 5.2.2-4B	1	07/1982
Figure 5.2.2-5	1	07/1982
Figure 5.2.2-6	1	19.1
Figure 5.2.2-6A	1	19.1
Figure 5.2.2-6B	1	19.1
Figure 5.2.2-6C	1	19.1
Figure 5.2.2-6D	1	19.1
Figure 5.2.2-7	1	16.3
Figure 5.2.2-8	1	16.3
Figure 5.2.2-9	1	07/1982
Figure 5.2.2-10	1	07/1982
Figure 5.2.2-10A	1	07/1982
Figure 5.2.2-11	1	17.1
Figure 5.2.2-11A	1	17.1
Figure 5.2.2-12	1	07/1982
Figure 5.2.2-12A	1	07/1982
Figure 5.2.2-13	1	07/1982
Figure 5.2.2-14	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 25 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.2.2-15	1	07/1982
Figure 5.2.2-16	1	07/1982
Figure 5.2.2-17	1	07/1982
Figure 5.2.2-18	1	07/1982
Figure 5.2.2-19	1	07/1982
Figure 5.2.2-20	1	07/1982
Figure 5.2.2-21	1	07/1982
Figure 5.2.2-22	1	07/1982
Figure 5.2.2-23	1	07/1982
Figure 5.2.2-24	1	07/1982
Figure 5.2.2-25	1	07/1982
Figure 5.2.2-26	1	07/1982
Figure 5.2.2-27	1	07/1982
Figure 5.2.2-28	1	07/1982
Figure 5.2.2-29	1	07/1982
Figure 5.2.2-30	1	07/1982
Figure 5.2.2-31	1	07/1982
Figure 5.2.2-32	1	07/1982
Figure 5.2.2-33	1	07/1982
Figure 5.2.2-34	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 26 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.2.2-35	1	07/1982
Figure 5.2.2-36	1	07/1982
Figure 5.2.2-37	1	07/1982
Figure 5.2.2-38	1	07/1982
Figure 5.2.2-39	1	07/1982
Figure 5.2.2-40	1	07/1982
Figure 5.2.2-41	1	07/1982
Figure 5.2.2-42	1	07/1982
Figure 5.2.2-43	1	07/1982
Figure 5.2.2-44	1	07/1982
Figure 5.2.2-45	1	07/1982
Figure 5.2.2-46	1	07/1982
Figure 5.2.2-47	1	07/1982
Figure 5.2.2-48	1	07/1982
Figure 5.2.2-49	1	07/1982
Figure 5.2.2-50	1	07/1982
Figure 5.2.2-51	1	07/1982
Figure 5.2.2-51A	1	07/1982
Figure 5.2.2-51B	1	07/1982
Figure 5.2.2-51C	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 27 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.2.2-51D	1	07/1982
Figure 5.2.2-51E	1	07/1982
Figure 5.2.2-52	1	07/1982
Figure 5.2.2-52A	1	07/1982
Figure 5.2.2-53	1	07/1982
Figure 5.2.2-54	1	07/1995
Figure 5.2.2-54A	1	07/1982
Figure 5.2.2-54B	1	07/1982
Figure 5.2.2-55	1	07/1982
Figure 5.2.2-55A	1	07/1982
Figure 5.2.2-56	1	32.0
Figure 5.2.2-56A	1	32.0
Figure 5.2.2-57	1	07/1982
Figure 5.2.2-57A	1	07/1982
Figure 5.2.2-58	1	07/1982
Figure 5.2.2-58A	1	07/1982
Figure 5.2.2-59	1	07/1982
Figure 5.2.2-59A	1	07/1982
Figure 5.2.2-59B	1	07/1982
Figure 5.2.2-59C	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 28 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.2.2-59D	1	07/1982
Figure 5.2.2-59E	1	07/1982
Figure 5.2.2-60B	1	07/1982
Figure 5.2.2-60C	1	07/1982
Figure 5.2.2-61	1	07/1982
Figure 5.2.2-63	1	07/1982
Figure 5.2.2-64	1	07/1982
Figure 5.2.2-65	1	07/1982
Figure 5.2.2-65A	1	07/1982
Figure 5.3.2-1	1	16.3
Figure 5.3.5.1-1	1	16.3
Figure 5.3.5.1-2	1	16.3
Figure 5.3.5.2-1	1	16.3
Figure 5.3.5.3-1	1	16.3
Figure 5.3.5.4-1	1	16.3
Figure 5.3.5.8-1	1	16.3
Figure 5.3.5.9-1	1	16.3
Figure 5.3.5.9-2	1	16.3
Figure 5.3.5.9-3	1	16.3
Figure 5.3.5.10-1	1	16.3



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 29 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 5</u>		
Figure 5.3.5.10-2	1	16.3
Figure 5.3.5.12-1	1	26.0
Figure 5.3.5.12-1A	1	26.0
Figure 5.3.5.12-2	1	16.3
Figure 5.3.5.12-3	1	16.3
Figure 5.3.5.12-4	1	16.3
Figure 5.5-1	1	21.2
Figure 5.5-2	1	16.6
Figure 5.5-3	1	21.2
Figure 5.6-1	1	21.0
Figure 5.7-1	1	07/1982
Figure 5.7-2	1	07/1982
Figure 5.8-1	1	24.0
Figure 5.8-2	1	24.0
Figure 5.8-3	1	24.0
Figure 5.8-4	1	24.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 30 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 6</u>		
Table Of Contents	3	29.0
Engineered Safety Features	47	29.0
Tables		
Table 6.1-1	1	27.0
Table 6.2-1	1	22.0
Table 6.2-2	1	16.1
Table 6.2-3	1	16.1
Table 6.2-4	1	16.3
Table 6.2-5	1	21.1
Table 6.2-6	3	22.0
Table 6.2-7	1	16.1
Table 6.2-8	1	19.1
Table 6.2-9	1	21.1
Table 6.2-10	1	22.0
Table 6.3-1	1	16.1
Table 6.3-2	2	28.0
Table 6.3-3	1	17.0
Table 6.3-4	2	26.0
Figures		
Figure 6.2-1(was revised for 26.0, but not physically incorporated until 28.0)	1	28.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 31 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 6</u>		
Figure 6.2-1A & Figure 9.3-1	1	27.0
Figure 6.2-2	1	07/1982
Figure 6.2-3	1	07/1982
Figure 6.3-1	1	21.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 32 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
CHAPTER 7		
Table Of Contents	6	30.0
Instrumentation And Control	82	30.0
Tables		
Table 7.2-1	5	21.2
Table 7.2-2	4	21.2
Table 7.2-3	1	16.1
Table 7.2-4	1	17.0
Table 7.2-5	2	16.2
Table 7.2-6	1	21.2
Table 7.2-7	3	27.0
Table 7.5-1	1	21.2
Table 7.5-2	2	24.0
Table 7.8-1	51	30.0
Figures		
Figure 7.2-2	1	21.0
Figure 7.2-3	1	16.5
Figure 7.2-4	1	07/1982
Figure 7.2-5	1	07/1982
Figure 7.2-6	1	07/1982
Figure 7.2-7	1	07/1982



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 33 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 7</u>		
Figure 7.2-8	1	17.0
Figure 7.2-9	1	07/1982
Figure 7.3-1	1	07/1982
Figure 7.5-1	1	07/1982
Figure 7.5-2	1	07/1982
Figure 7.5-3A (U1)	1	27.0
Figure 7.5-3B (U2)	1	27.0
Figure 7.6-1	1	07/1986
Figure 7.6-2	1	07/1982
Figure 7.6-3	1	07/1982
Figure 7.8-1	1	17.0
Figure 7.8-2	1	17.0
Figure 7.8-3	1	17.0
Figure 7.8-4	1	21.2
Figure 7.8-5	1	17.0
Figure 7.8-6	1	17.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 34 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 8</u>		
Table Of Contents	1	32.0
Electrical Systems	32	32.0
Tables		
Table 8.7-1	2	29.0
Figures		
Figure 8.1-1A	1	31.0
Figure 8.1-1B	1	31.0
Figure 8.1-2A	1	28.0
Figure 8.1-2B	1	28.0
Figure 8.2-1 - DELETED	N/A	30.0
Figure 8.3-1	1	16.3
Figure 8.3-2	1	18.0
Figure 8.3-3	1	17.0
Figure 8.4-1	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 35 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 9</u>		
9.0, 9.1 & 9.2 Table of Contents	3	29.0
Auxiliary and Emergency Systems		
Application of Plant Design Criteria	31	29.0
Chemical and Volume Control System		
9.3, 9.4, & 9.5 Table of Contents	3	31.0
Residual Heat Removal System		
Spent Fuel Pool Cooling System	22	31.0
Component Cooling System		
9.6 & 9.7 Table of Contents	3	29.0
Sampling Systems		
Reactor Components and Fuel Handling System	33	29.0
9.8, 9.9, & 9.10 Table of Contents	2	29.0
Facility Service Systems		
Auxiliary Building Ventilation System	27	29.0
Control Room Ventilation System		



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 36 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 9</u>		
Tables		
Table 9.2-1	1	17.2
Table 9.2-2	1	20.1
Table 9.2-3	32	27.0
Table 9.2-4	1	17.0
Table 9.3-1	1	17.0
Table 9.3-2	2	21.2
Table 9.3-3	1	17.0
Table 9.4-1	1	17.0
Table 9.4-2	4	17.0
Table 9.4-3	1	16.1
Table 9.5-1	1	17.0
Table 9.5-2	2	21.0
Table 9.5-3	1	28.0
Table 9.5-4	1	17.0
Table 9.7-1	1	16.1
Table 9.7-2	1	16.1
Table 9.7-3	1	16.1
Table 9.7-4	1	16.1
Table 9.7-5	1	16.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 37 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 9</u>		
Table 9.7-6	1	19.1
Table 9.7-7	1	19.1
Table 9.8-1	1	30.0
Table 9.8-2	4	17.0
Table 9.8-3	1	28.0
Table 9.8-4	4	30.0
Table 9.8-4A	1	26.0
Table 9.8-4B	1	26.0
Table 9.8-5	1	28.0
Table 9.8-6	1	17.0
Table 9.10-1	1	23.0
<u>Figures</u>		
Figure 9.2-1	1	24.0
Figure 9.2-2	1	16.3
Figure 9.2-3	1	21.2
Figure 9.2-4	1	18.0
Figure 9.2-5	1	16.6
Figure 9.2-6	1	17.0
Figure 6.2-1A & Figure 9.3-1	1	27.0
Figure 9.4-1	1	16.3



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 38 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 9</u>		
Figure 9.5-1	1	22.1
Figure 9.6-1	1	19.3
Figure 9.6-2	1	16.5
Figure 9.7-1	1	07/1991
Figure 9.7-2	1	07/1994
Figure 9.7-3	1	23.0
Figure 9.7-4	1	23.0
Figure 9.7-5	1	07/1994
Figure 9.8-1	1	28.0
Figure 9.8-2	1	25.0
Figure 9.8-3	1	17.0
Figure 9.8-4	1	28.0
Figure 9.8-5	1	28.0
Figure 9.8-6	1	23.0
Figure 9.8-7	1	21.2
Figure 9.9-1	1	27.0
Figure 9.9-2	1	17.0
Figure 9.10-1	1	27.0
Figure 9.10-2	1	26.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 39 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
CHAPTER 10		
Table Of Contents	2	31.0
Steam And Power Conversion System	28	31.0
Tables		
Table 10.5-1	1	17.0
Table 10.6-1	1	16.1
Figures		
Figure 10.2-1	1	16.6
Figure 10.2-1A	1	16.3
Figure 10.2-1B	1	16.6
Figure 10.2-1C	1	27.0
Figure 10.3-1	1	21.0
Figure 10.3-1A	1	16.3
Figure 10.5-1	1	21.2
Figure 10.5-2	1	27.0
Figure 10.5-2A	1	16.3
Figure 10.5-3	1	27.0
Figure 10.5-3A	1	16.3
Figure 10.5-4	1	16.3
Figure 10.5-4A	1	23.0
Figure 10.5-5	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 40 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 10</u>		
Figure 10.5-5A	1	23.0
Figure 10.6-1	1	16.3



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 41 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 11</u>		
Table Of Contents	4	31.0
Waste Disposal And Radiation Protection System	44	31.0
Tables		
Table 11.1-1	1	16.1
Table 11.1-2	1	20.2
Table 11.1-3	2	16.1
Table 11.1-4	1	16.1
Table 11.1-5	1	16.1
Table 11.1-6	1	16.1
Table 11.2-1	1	16.1
Table 11.2-2	1	16.1
Table 11.2-3	1	16.6
Table 11.2-4	1	16.1
Table 11.2-5	1	16.1
Table 11.2-6	1	16.6
Table 11.2-7	1	23.0
Table 11.2-8	1	23.0
Table 11.2-9	1	23.0
Table 11.2-10	1	23.0
Table 11.2-11	1	23.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 42 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 11</u>		
Table 11.2-12	1	23.0
Table 11.3-1	10	30.0
Table 11.3-2	1	16.1
Table 11.3-3	2	30.0
Table 11.5-1	1	16.1
Table 11.5-2	2	28.0
Figures		
Figure 11.1-1	1	21.0
Figure 11.1-2	1	27.0
Figure 11.1-2A	1	16.3
Figure 11.1-2B	1	16.3
Figure 11.1-3	1	18.0
Figure 11.1-4	1	24.0
Figure 11.2-1	1	07/1982
Figure 11.5-1	1	16.3
Figure 11.6-1	1	24.0
Figure 11.6-2A	1	25.0
Figure 11.6-2B	1	07/1986
Figure 11.6-2C	1	07/1990



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 43 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 12</u>		
Table Of Contents	1	30.0
Conduct Of Operations	12	30.0
Tables		
None		
Figures		
None		



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 44 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 13</u>		
Table Of Contents	1	17.0
[Historical] Initial Tests And Operation	11	17.0
Tables		
Table 13.1-1	6	17
Table 13.2-1	4	16.1
Table 13.3-1	3	16.1
Figures		
None		



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 45 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
14.0 Table Of Contents (Unit 1)	1	29.0
Safety Analysis	5	29.0
14.1 Table Of Contents (Unit 1)	5	30.0
Core and Coolant Boundary Protection Analysis	83	30.0
14.2 Table Of Contents (Unit 1)	3	30.0
Standby Safeguards Analysis	46	30.0
14.3 Reactor Coolant System Pipe Rupture (Loss Of Coolant Accident)	(broken out into smaller subsections)	
14.3.1 Table of Contents (Unit 1)	1	29.0
Large Break LOCA Analysis	17	29.0
14.3.2 Table of Contents (Unit 1)	1	29
Loss of Reactor Coolant from Small Ruptured Pipes or from Cracks in Large Pipes Which Actuates the Emergency Core Cooling System	8	29
14.3.3 Table of Contents (Unit 1)	1	32.0
Core and Internals Integrity Analysis	9	32.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 46 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
14.3.4.1 Table of Contents (Unit 1)	1	29.0
Containment Structure	20	29.0
14.3.4.2 Table of Contents (Unit 1)	1	29.0
Containment Subcompartments	21	29.0
14.3.4.3 Table of Contents (Unit 1)	1	29.0
Mass And Energy Release Analysis For Postulated Loss-Of-Coolant Accidents	10	29.0
14.3.4.4 Table of Contents (Unit 1)	1	27.0
Mass And Energy Release Analysis For Postulated Secondary System Pipe Ruptures Inside Containment	7	27.0
14.3.4.5, 14.3.4.6, & 14.3.4.7 Table of Contents (Unit 1)	2	29.0
Containment Integrity Analysis - Background Information	33	29.0
Changes from Base Containment Analyses: Note Concerning Tables and Figures		
References for Section 14.3.4		



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 47 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
CHAPTER 14 (UNIT 1)		
14.3.5, 14.3.6, 14.3.7, & 14.3.8 Table of Contents (Unit 1)	1	28.0
Environmental Consequences of a Loss-Of-Coolant-Accident		
Deleted	10	28.0
Long Term Cooling		
Nitrogen Blanketing		
14.3.9 Table of Contents (Unit 1)	2	32.0
Containment and Recirculation Sump Analyses	43	32.0
14.4 Table Of Contents (Unit 1)	1	19.0
Environmental Qualification Analysis	1	19.0
14.A Table Of Contents (Unit 1)	2	28.0
Radiation Sources (Appendix 14A)	14	28.0
Tables		
Table 14.1-1	2	28.0
Table 14.1-2	1	22.1
Table 14.1-3	4	27.0
Table 14.1-4	1	18.2



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 48 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.1-5	1	16.6
Table 14.1-6	1	16.1
Table 14.1-7	1	16.1
Table 14.1-8	1	17.0
Table 14.1.2-1	1	18.1
Table 14.1.6-1	1	18.1
Table 14.1.6-2	2	28.0
Table 14.1.8-1	1	18.1
Table 14.1.9-1	1	16.6
Table 14.1.10-1	2	18.1
Table 14.1.12-1	1	16.6
Table 14.1.13-1	1	28.0
Table 14.2.1-2	2	28.0
Table 14.2.4-1	3	28.0
Table 14.2.5-1	1	27.0
Table 14.2.5-2	1	27.0
Table 14.2.5-3	3	28.0
Table 14.2.6-1	1	18.1
Table 14.2.6-2	3	28.0
Table 14.2.7-1	1	16.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 49 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.3.1-1	3	27.0
Table 14.3.1-2	1	27.0
Table 14.3.1-3	1	23.0
Table 14.3.1-4A	1	27.0
Table 14.3.1-4B	1	23.0
Table 14.3.1-4C	1	27.0
Table 14.3.1-5	1	23.0
Table 14.3.1-6	1	29.0
Table 14.3.1-7	1	27.0
Table 14.3.1-7A	1	27.0
Table 14.3.1-8	1	27.0
Table 14.3.1-8A	1	27.0
Table 14.3.2-1	2	29.0
Table 14.3.2-1A	1	29.0
Table 14.3.2-2	1	29.0
Table 14.3.2-2A	1	29.0
Table 14.3.2-3	1	29.0
Table 14.3.2-3A	1	29.0
Table 14.3.2-3B	1	29.0
Table 14.3.2-4	2	25.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 50 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.3.2-5	2	25.0
Table 14.3.2-6	2	25.0
Table 14.3.2-7	2	25.0
Table 14.3.2-8	1	29.0
Table 14.3.3-1	1	16.1
Table 14.3.4-1	1	16.4
Table 14.3.4-2	1	19.2
Table 14.3.4-4	6	27.0
Table 14.3.4-5	1	27.0
Table 14.3.4-6A	1	27.0
Table 14.3.4-6B	1	27.0
Table 14.3.4-7	2	27.0
Table 14.3.4-8	2	27.0
Table 14.3.4-9	1	28.0
Table 14.3.4-10	1	28.0
Table 14.3.4-11	1	16.1
Table 14.3.4-12	1	16.1
Table 14.3.4-13	1	16.1
Table 14.3.4-14	1	16.1
Table 14.3.4-15	2	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 51 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.3.4-16	12	17.1
Table 14.3.4-17	2	17.1
Table 14.3.4-18	2	17.1
Table 14.3.4-19	2	17.1
Table 14.3.4-20	2	17.1
Table 14.3.4-21	1	17.1
Table 14.3.4-22	3	17.1
Table 14.3.4-23	1	17.1
Table 14.3.4-24	3	17.1
Table 14.3.4-25	4	17.1
Table 14.3.4-26	3	17.1
Table 14.3.4-27	1	17.1
Table 14.3.4-28	5	17.1
Table 14.3.4-29	1	17.1
Table 14.3.4-30	6	17.1
Table 14.3.4-31	6	22.1
Table 14.3.4-32	1	17.1
Table 14.3.4-33	1	19.3
Table 14.3.4-34	1	17.1
Table 14.3.4-35	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 52 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.3.4-36	2	17.1
Table 14.3.4-37	1	17.1
Table 14.3.4-38	1	17.1
Table 14.3.4-39	1	17.1
Table 14.3.4-40	3	17.1
Table 14.3.4-41	2	27.0
Table 14.3.4-42	14	27.0
Table 14.3.4-47	1	27.0
Table 14.3.5-1	5	28.0
Table 14.3.9-1	1	16.4
Table 14.3.9-2	3	16.4
Table 14.3.9-3	2	32.0
Table 14.3.9-4	1	22.0
Table 14.3.9-5	1	32.0
Table 14.3.9-6	1	32.0
Table 14.3.9-7	2	32.0
Table 14.3.9-8	1	22.0
Table 14.3.9-10	2	32.0
Table 14.3.9-11	2	32.0
Table 14.3.9-12	1	22.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 53 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.3.9-13	1	22.0
Table 14.3.9-14	1	22.0
Table 14.3.9-15	1	22.0
Table 14.3.9-16	1	22.0
Table 14.3.9-20	1	22.0
Table 14.3.9-22	2	32.0
Table 14.3.9-23	2	32.0
Table 14.3.9-24	1	32.0
Table 14.3.9-25	2	32.0
Table 14.3.9-26	1	32.0
Table 14.A.1-1	2	28.0
Table 14.A.2-1	2	28.0
Table 14.A.3-1	2	28.0
Table 14.A.3-3	1	28.0
Table 14.A.3-5	1	28.0
Table 14.A.4-1	1	23.0
Table 14.A.4-2	1	23.0
Table 14.A.5-1a	1	28.0
Table 14.A.5-1b	1	28.0
Table 14.A.5-2	1	28.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 54 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Table 14.G-1	1	16.1
Table 14.G-2	1	16.1
Table 14.G-3	1	16.1
Figures		
Figure 14.1-1	1	27.0
Figure 14.1-2	1	27.0
Figure 14.1-3	1	27.0
Figure 14.1-3A	1	27.0
Figure 14.1-4	1	07/1997
Figure 14.1-5	1	07/1997
Figure 14.1.1-1	1	07/1997
Figure 14.1.1-2	1	07/1997
Figure 14.1.2-1	1	18.1
Figure 14.1.2-2	1	18.1
Figure 14.1.2-3	1	18.1
Figure 14.1.2-4	1	18.1
Figure 14.1.2-5	1	18.1
Figure 14.1.2-6	1	18.1
Figure 14.1.2-7	1	18.1
Figure 14.1.2-8	1	18.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 55 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.1.2-9	1	18.1
Figure 14.1.3-1	1	07/1990
Figure 14.1.3-2	1	07/1990
Figure 14.1.6-1	1	07/1997
Figure 14.1.6-2	1	07/1997
Figure 14.1.6-3	1	07/1997
Figure 14.1.6-4	1	07/1997
Figure 14.1.6-5	1	07/1997
Figure 14.1.6-6	1	07/1997
Figure 14.1.6-7	1	07/1997
Figure 14.1.6-8	1	07/1997
Figure 14.1.6-9	1	07/1997
Figure 14.1.8-1	1	18.1
Figure 14.1.8-2	1	18.1
Figure 14.1.8-3	1	18.1
Figure 14.1.8-4	1	18.1
Figure 14.1.8-5	1	18.1
Figure 14.1.8-6	1	18.1
Figure 14.1.8-7	1	16.6
Figure 14.1.8-8	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 56 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.1.8-9	1	16.6
Figure 14.1.8-10	1	16.6
Figure 14.1.8-11	1	16.6
Figure 14.1.8-12	1	16.6
Figure 14.1.9-1	1	16.6
Figure 14.1.9-2	1	16.6
Figure 14.1.10-1	1	18.1
Figure 14.1.10-2	1	18.1
Figure 14.1.10-3	1	18.1
Figure 14.1.10-4	1	18.1
Figure 14.1.10-5	1	18.1
Figure 14.1.10-6	1	18.1
Figure 14.1.10-7	1	18.1
Figure 14.1.10-8	1	18.1
Figure 14.1.11-1	1	07/1990
Figure 14.1.11-2	1	07/1990
Figure 14.1.11-3	1	07/1990
Figure 14.1.11-4	1	07/1990
Figure 14.1.11-5	1	07/1990
Figure 14.1.11-6	1	07/1990



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 57 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.1.11-7	1	07/1990
Figure 14.1.11-8	1	07/1990
Figure 14.1.12-1	1	16.6
Figure 14.1.12-2	1	16.6
Figure 14.1.13-1	1	28.0
Figure 14.1.13-2	1	28.0
Figure 14.1.13-3	1	28.0
Figure 14.1.13-4	1	24.0
Figure 14.1.13-4A	1	24.0
Figure 14.1.13-5	1	28.0
Figure 14.1.13-6	1	24.0
Figure 14.2.5-1	1	23.0
Figure 14.2.5-2	1	23.0
Figure 14.2.5-3	1	07/1997
Figure 14.2.5-4	1	23.0
Figure 14.2.5-5	1	23.0
Figure 14.2.5-6	1	23.0
Figure 14.2.5-7	1	23.0
Figure 14.2.5-8	1	27.0
Figure 14.2.5-9	1	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 58 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.2.5-10	1	27.0
Figure 14.2.5-11	1	27.0
Figure 14.2.6-1	1	07/1997
Figure 14.2.6-2	1	07/1997
Figure 14.2.6-3	1	07/1997
Figure 14.2.6-4	1	07/1997
Figure 14.2.7-1	1	07/1982
Figure 14.2.7-2	1	07/1982
Figure 14.2.7-3	1	07/1987
Figure 14.2.7-4	1	07/1987
Figure 14.2.7-5	1	07/1982
Figure 14.2.7-6	1	07/1982
Figure 14.3.1-1A	1	27.0
Figure 14.3.1-1AA	1	27.0
Figure 14.3.1-1B	1	27.0
Figure 14.3.1-1BA	1	27.0
Figure 14.3.1-1C	1	27.0
Figure 14.3.1-1CA	1	27.0
Figure 14.3.1-1D	1	28.0
Figure 14.3.1-1DA	1	28.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 59 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.1-1E	1	28.0
Figure 14.3.1-1EA	1	28.0
Figure 14.3.1-1F	1	28.0
Figure 14.3.1-1FA	1	28.0
Figure 14.3.1-1G	1	28.0
Figure 14.3.1-1GA	1	28.0
Figure 14.3.1-1H	1	28.0
Figure 14.3.1-1HA	1	28.0
Figure 14.3.1-1I	1	28.0
Figure 14.3.1-1IA	1	28.0
Figure 14.3.1-1J	1	28.0
Figure 14.3.1-1JA	1	28.0
Figure 14.3.1-1K	1	28.0
Figure 14.3.1-1KA	1	28.0
Figure 14.3.1-1L	1	28.0
Figure 14.3.1-1LA	1	28.0
Figure 14.3.1-1M	1	28.0
Figure 14.3.1-1MA	1	28.0
Figure 14.3.1-1N	1	28.0
Figure 14.3.1-1NA	1	28.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 60 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.1-2	1	28.0
Figure 14.3.1-3	1	28.0
Figure 14.3.1-3A	1	28.0
Figure 14.3.1-4	1	28.0
Figure 14.3.1-4A	1	28.0
Figure 14.3.1-5	1	28.0
Figure 14.3.1-5A	1	28.0
Figure 14.3.1-6	1	28.0
Figure 14.3.1-6A	1	28.0
Figure 14.3.1-7	1	28.0
Figure 14.3.1-7A	1	28.0
Figure 14.3.1-8	1	28.0
Figure 14.3.1-8A	1	28.0
Figure 14.3.1-9	1	28.0
Figure 14.3.1-9A	1	28.0
Figure 14.3.2-1	1	25.0
Figure 14.3.2-2	1	25.0
Figure 14.3.2-3	1	25.0
Figure 14.3.2-4	1	25.0
Figure 14.3.2-5	1	25.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 61 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.2-6	1	25.0
Figure 14.3.2-7	1	25.0
Figure 14.3.2-8	1	25.0
Figure 14.3.2-9	1	25.0
Figure 14.3.2-10	1	25.0
Figure 14.3.2-11	1	25.0
Figure 14.3.2-12	1	25.0
Figure 14.3.2-13	1	25.0
Figure 14.3.2-14	1	25.0
Figure 14.3.2-15	1	25.0
Figure 14.3.2-16	1	25.0
Figure 14.3.2-17	1	25.0
Figure 14.3.2-18	1	25.0
Figure 14.3.2-19	1	25.0
Figure 14.3.2-20	1	25.0
Figure 14.3.2-21	1	25.0
Figure 14.3.2-22	1	25.0
Figure 14.3.2-23	1	25.0
Figure 14.3.2-24	1	25.0
Figure 14.3.2-25	1	25.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 62 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.2-26	1	25.0
Figure 14.3.2-27	1	25.0
Figure 14.3.2-28	1	25.0
Figure 14.3.2-29	1	25.0
Figure 14.3.2-30	1	25.0
Figure 14.3.2-31	1	25.0
Figure 14.3.2-32	1	25.0
Figure 14.3.2-33	1	25.0
Figure 14.3.2-34	1	25.0
Figure 14.3.2-35	1	25.0
Figure 14.2.3-36	1	25.0
Figure 14.3.2-37	1	25.0
Figure 14.3.2-38	1	25.0
Figure 14.3.2-39	1	25.0
Figure 14.3.2-40	1	25.0
Figure 14.3.2-41	1	25.0
Figure 14.3.2-42	1	25.0
Figure 14.3.2-43	1	25.0
Figure 14.3.2-44	1	25.0
Figure 14.3.2-45	1	25.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 63 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.2-46	1	25.0
Figure 14.3.2-47	1	25.0
Figure 14.3.2-48	1	25.0
Figure 14.3.2-49	1	25.0
Figure 14.3.2-50	1	25.0
Figure 14.3.2-51	1	25.0
Figure 14.3.2-52	1	25.0
Figure 14.3.2-53	1	29.0
Figure 14.3.2-54	1	29.0
Figure 14.3.2-55	1	29.0
Figure 14.3.2-56	1	29.0
Figure 14.3.4-1	1	07/1992
Figure 14.3.4-2	1	07/1992
Figure 14.3.4-3	1	07/1992
Figure 14.3.4-4	1	16.4
Figure 14.3.4-5	1	16.4
Figure 14.3.4-6	1	27.0
Figure 14.3.4-6A	1	27.0
Figure 14.3.4-7	1	27.0
Figure 14.3.4-8	1	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 64 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-9	1	27.0
Figure 14.3.4-10	1	27.0
Figure 14.3.4-11	1	27.0
Figure 14.3.4-12	1	27.0
Figure 14.3.4-13	1	07/1992
Figure 14.3.4-14	1	07/1992
Figure 14.3.4-15	1	07/1992
Figure 14.3.4-16	1	07/1992
Figure 14.3.4-17	1	07/1992
Figure 14.3.4-18	1	17.1
Figure 14.3.4-19	1	17.1
Figure 14.3.4-20	1	17.1
Figure 14.3.4-21	1	17.1
Figure 14.3.4-22	1	17.1
Figure 14.3.4-23	1	17.1
Figure 14.3.4-24	2	17.1
Figure 14.3.4-25	1	17.1
Figure 14.3.4-26	1	17.1
Figure 14.3.4-27	1	17.1
Figure 14.3.4-28	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 65 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-29	1	17.1
Figure 14.3.4-30	1	17.1
Figure 14.3.4-31	1	17.1
Figure 14.3.4-32	1	17.1
Figure 14.3.4-33	1	17.1
Figure 14.3.4-34	1	17.1
Figure 14.3.4-35	1	19.3
Figure 14.3.4-36	1	19.3
Figure 14.3.4-37	1	19.3
Figure 14.3.4-38	1	19.3
Figure 14.3.4-39	1	19.3
Figure 14.3.4-40	1	19.3
Figure 14.3.4-41	1	19.3
Figure 14.3.4-42	1	19.3
Figure 14.3.4-43	1	19.3
Figure 14.3.4-44	1	17.1
Figure 14.3.4-45	1	17.1
Figure 14.3.4-46	1	17.1
Figure 14.3.4-47	1	17.1
Figure 14.3.4-48	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 66 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-49	1	17.1
Figure 14.3.4-50	1	17.1
Figure 14.3.4-51	1	17.1
Figure 14.3.4-52	1	17.1
Figure 14.3.4-53	1	17.1
Figure 14.3.4-54	1	17.1
Figure 14.3.4-55	1	17.1
Figure 14.3.4-56	1	17.1
Figure 14.3.4-57	1	17.1
Figure 14.3.4-58	1	17.1
Figure 14.3.4-59	1	17.1
Figure 14.3.4-60	1	17.1
Figure 14.3.4-61	1	17.1
Figure 14.3.4-62	1	17.1
Figure 14.3.4-63	1	17.1
Figure 14.3.4-64	1	17.1
Figure 14.3.4-65	1	17.1
Figure 14.3.4-66	1	17.1
Figure 14.3.4-67	1	17.1
Figure 14.3.4-68	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 67 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-69	1	17.1
Figure 14.3.4-70	1	17.1
Figure 14.3.4-71	1	17.1
Figure 14.3.4-72	1	17.1
Figure 14.3.4-73	1	17.1
Figure 14.3.4-74	1	17.1
Figure 14.3.4-75	1	17.1
Figure 14.3.4-76	1	17.1
Figure 14.3.4-77	1	17.1
Figure 14.3.4-78	1	17.1
Figure 14.3.4-79	1	17.1
Figure 14.3.4-80	1	17.1
Figure 14.3.4-81	1	17.1
Figure 14.3.4-82	1	17.1
Figure 14.3.4-83	1	17.1
Figure 14.3.4-84	1	17.1
Figure 14.3.4-85	1	17.1
Figure 14.3.4-86	1	17.1
Figure 14.3.4-87	1	17.1
Figure 14.3.4-88	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 68 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-89	1	17.1
Figure 14.3.4-90	1	17.1
Figure 14.3.4-91	1	17.1
Figure 14.3.4-92	1	17.1
Figure 14.3.4-93	1	17.1
Figure 14.3.4-94	1	17.1
Figure 14.3.4-95	1	17.1
Figure 14.3.4-96	1	17.1
Figure 14.3.4-97	1	17.1
Figure 14.3.4-98	1	17.1
Figure 14.3.4-99	1	17.1
Figure 14.3.4-100	1	17.1
Figure 14.3.4-101	1	17.1
Figure 14.3.4-102	1	17.1
Figure 14.3.4-103	1	17.1
Figure 14.3.4-104	1	17.1
Figure 14.3.4-105	1	17.1
Figure 14.3.4-106	1	17.1
Figure 14.3.4-107	1	17.1
Figure 14.3.4-108	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 69 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-109	1	17.1
Figure 14.3.4-110	1	17.1
Figure 14.3.4-111	1	17.1
Figure 14.3.4-112	1	17.1
Figure 14.3.4-113	1	17.1
Figure 14.3.4-114	1	17.1
Figure 14.3.4-115	1	17.1
Figure 14.3.4-116	1	17.1
Figure 14.3.4-117	1	17.1
Figure 14.3.4-118	1	17.1
Figure 14.3.4-119	1	17.1
Figure 14.3.4-120	1	17.1
Figure 14.3.4-121	1	17.1
Figure 14.3.4-122	1	17.1
Figure 14.3.4-123	1	17.1
Figure 14.3.4-124	1	17.1
Figure 14.3.4-125	1	17.1
Figure 14.3.4-126	1	17.1
Figure 14.3.4-127	1	17.1
Figure 14.3.4-128	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 70 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-129	1	17.1
Figure 14.3.4-130	1	17.1
Figure 14.3.4-131	1	17.1
Figure 14.3.4-132	1	22.1
Figure 14.3.4-133	1	17.1
Figure 14.3.4-134	1	17.1
Figure 14.3.4-135	1	17.1
Figure 14.3.4-136	1	17.1
Figure 14.3.4-137	1	17.1
Figure 14.3.4-138	1	17.1
Figure 14.3.4-139	1	17.1
Figure 14.3.4-140	1	17.1
Figure 14.3.4-141	1	17.1
Figure 14.3.4-142	1	17.1
Figure 14.3.4-143	1	17.1
Figure 14.3.4-144	1	17.1
Figure 14.3.4-145	1	17.1
Figure 14.3.4-146	1	17.1
Figure 14.3.4-147	1	17.1
Figure 14.3.4-148	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 71 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.4-149	1	17.1
Figure 14.3.4-150	1	17.1
Figure 14.3.4-151	1	17.1
Figure 14.3.4-152	1	17.1
Figure 14.3.4-153	1	17.1
Figure 14.3.4-154	1	17.1
Figure 14.3.4-155	1	17.1
Figure 14.3.4-156	1	17.1
Figure 14.3.4-157	1	17.1
Figure 14.3.4-158	1	17.1
Figure 14.3.9-1	1	16.4
Figure 14.3.9-2	1	16.4
Figure 14.3.9-3	1	16.4
Figure 14.3.9-4	1	16.4
Figure 14.3.9-5	1	16.4
Figure 14.3.9-6	1	16.4
Figure 14.3.9-7	1	16.4
Figure 14.3.9-8	1	16.4
Figure 14.3.9-9	1	16.4
Figure 14.3.9-10	1	16.4



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 72 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 1)</u>		
Figure 14.3.9-11	1	16.4
Figure 14.3.9-12	1	16.4
Figure 14.3.9-13	1	22.0
Figure 14.3.9-14	2	22.0
Figure 14.3.9-15	1	22.0
Figure 14.3.9-16	1	22.0
Figure 14.3.9-17	1	22.0
Figure 14.3.9-18	1	22.0
Figure 14.3.9-19	1	22.0
Figure 14.3.9-20	1	22.0
Figure 14.3.9-21	1	22.0
Figure 14.3.9-22	1	22.0
Figure 14.3.9-23	2	32.0
Figure 14.3.9-24	1	22.0
Figure 14.3.9-25	1	22.0
Figure 14.G-1	1	07/1987
Figure 14.G-2	1	07/1987



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 73 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
14.0 Table Of Contents (Unit 2)	1	29.0
Safety Analysis	4	29.0
14.1 Table Of Contents (Unit 2)	5	30.0
Core And Coolant Boundary Protection Analysis	64	30.0
14.2 Table Of Contents (Unit 2)	3	30.0
Standby Safeguards Analysis	34	30.0
14.3 Reactor Coolant System Pipe Rupture (Loss-Of-Coolant- Accident) (Unit 2)		
14.3.1 Table Of Contents (Unit 2)	1	29.0
Large Break Loss-Of-Coolant-Accident Analyses	15	29.0
14.3.2 Table Of Contents (Unit 2)	1	29.0
Loss of Reactor Coolant from Small Ruptured Pipes or from Cracks in Large Pipes which Actuates the Emergency Core Cooling System	7	29.0
14.3.3 Table Of Contents (Unit 2)	1	32.0
Core and Internals Integrity Analysis	12	32.0

 An AEP Company	INDIANA AND MICHIGAN POWER D. C. COOK NUCLEAR PLANT UPDATED FINAL SAFETY ANALYSIS REPORT	Revised: 32.0 Chapter: LOEP Page: 74 of 100
---	---	---

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
14.3.4 Containment Integrity Analysis (Unit 2)		
14.3.4.1 Table Of Contents (Unit 2)	1	29.0
Containment Structure	21	29.0
14.3.4.2 Table Of Contents (Unit 2)	1	27.0
Containment Subcompartments	22	27.0
14.3.4.3 Table Of Contents (Unit 2)	1	29.0
Mass and Energy Release Analysis for Postulated Loss-Of-Coolant Accidents	9	29.0
14.3.4.4 Table Of Contents (Unit 2)	1	27.0
Mass and Energy Release Analysis for Postulated Secondary System Pipe Ruptures Inside Containment	7	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 75 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
14.3.4.5, .6, & .7 Table Of Contents (Unit 2)	2	29.0
14.3.4.5 – Containment Integrity Analysis – Background Information 14.3.4.6 – Changes from Base Containment Analyses: Note Concerning Tables and Figures 14.3.4.7 – References for Section 14.3.4	33	29.0
14.3.5, .6, .7, .8, & .9 Table Of Contents (Unit 2)	1	27.0
14.3.5 – Environmental Consequences of a Loss-Of-Coolant Accident 14.3.6 – Deleted 14.3.7 – Long Term Cooling 14.3.8 – Nitrogen Blanketing 14.3.9 – Containment and Recirculation Sump Analyses	10	27.0
14.4 Table Of Contents (Unit 2)	5	32.0
Environmental Qualification Analysis	49	32.0
14.A Table Of Contents (Unit 2)	1	16.6
14.A Radiation Sources (Appendix 14a)	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 76 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Tables		
Table 14.0-1	1	18.1
Table 14.1.0-1	2	24.0
Table 14.1.0-2	4	19.1
Table 14.1.0-3	1	19.1
Table 14.1.0-4	1	21.2
Table 14.1.0-5	1	19
Table 14.1.0-6	4	20.2
Table 14.1.1-1	1	18
Table 14.1.2B-1	1	16.1
Table 14.1.5-1	1	30.0
Table 14.1.6-1	1	16.1
Table 14.1.6-2	1	18.1
Table 14.1.8-1	1	18.1
Table 14.1.9-1	1	16.1
Table 14.1.10B-1	1	17
Table 14.1.10B-2	1	17
Table 14.1.10B-3	1	17
Table 14.1.10B-4	1	17
Table 14.1.11B-1	1	16.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 77 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.1.12-1	1	16.1
Table 14.2.5-1	1	29.0
Table 14.2.5-2	1	29.0
Table 14.2.6-1	1	27.0
Table 14.2.8-1	2	16.1
Table 14.3.1-1	4	26.0
Table 14.3.1-2	1	24.0
Table 14.3.1-3	1	24.0
Table 14.3.1-4A	1	24.0
Table 14.3.1-4B	1	24.0
Table 14.3.1-5	1	24.0
Table 14.3.1-6	1	29.0
Table 14.3.1-7	1	24.0
Table 14.3.1-8	1	24.0
Table 14.3.2-1	1	24.0
Table 14.3.2-2	1	24.0
Table 14.3.2-2A	1	29.0
Table 14.3.2-3	1	24.0
Table 14.3.2-3A	1	29.0
Table 14.3.2-4	2	24.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 78 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.3.2-5	2	24.0
Table 14.3.2-6	2	24.0
Table 14.3.2-7	2	24.0
Table 14.3.2-8	1	29.0
Table 14.3.4-1	1	27.0
Table 14.3.4-2	1	27.0
Table 14.3.4-4	3	27.0
Table 14.3.4-5	1	27.0
Table 14.3.4-6A	1	28.0
Table 14.3.4-6B	1	28.0
Table 14.3.4-7	2	27.0
Table 14.3.4-8	2	27.0
Table 14.3.4-9	1	27.0
Table 14.3.4-10	1	27.0
Table 14.3.4-11	1	27.0
Table 14.3.4-12	1	27.0
Table 14.3.4-13	1	27.0
Table 14.3.4-14	1	27.0
Table 14.3.4-15	2	27.0
Table 14.3.4-16	12	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 79 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.3.4-17	2	27.0
Table 14.3.4-18	2	27.0
Table 14.3.4-19	2	27.0
Table 14.3.4-20	2	27.0
Table 14.3.4-21	1	27.0
Table 14.3.4-22	3	27.0
Table 14.3.4-23	1	27.0
Table 14.3.4-24	3	27.0
Table 14.3.4-25	4	27.0
Table 14.3.4-26	3	27.0
Table 14.3.4-27	1	27.0
Table 14.3.4-28	5	27.0
Table 14.3.4-29	1	27.0
Table 14.3.4-30	6	27.0
Table 14.3.4-31	6	27.0
Table 14.3.4-32	1	27.0
Table 14.3.4-33	1	27.0
Table 14.3.4-34	1	27.0
Table 14.3.4-35	1	27.0
Table 14.3.4-36	2	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 80 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.3.4-37	1	27.0
Table 14.3.4-38	1	27.0
Table 14.3.4-39	1	27.0
Table 14.3.4-40	3	27.0
Table 14.3.4-41	2	28.0
Table 14.3.4-42	11	28.0
Table 14.3.4-47	1	27.0
Table 14.3.6-17	2	16.5
Table 14.4.2-1	5 Parts	
Table 14.4.2-1 – Part 1	25	27.0
Table 14.4.2-1 – Part 2	23	26.0
Table 14.4.2-1 – Part 3	26	26.0
Table 14.4.2-1 – Part 4	29	26.0
Table 14.4.2-1 – Part 5	29	27.0
Table 14.4.2-1A (U1) – Part 1	23	29.0
Table 14.4.2-1A (U1) – Part 2	23	29.0
Table 14.4.2-1A (U1) – Part 3	23	27.0
Table 14.4.2-1A (U1) – Part 4	22	27.0
Table 14.4.2-1A (U1) – Part 5	23	27.0
Table 14.4.2-1A (U1) – Part 6	23	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 81 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.4.2-2	1	16.4
Table 14.4.2-3A	1	27.0
Table 14.4.2-3B	1	22.0
Table 14.4.2-3C	1	22.0
Table 14.4.2-3D	1	22.0
Table 14.4.2-3E	1	22.0
Table 14.4.2-3F	1	22.0
Table 14.4.2-3G	1	22.0
Table 14.4.2-3H	1	24.0
Table 14.4.2-5	1	17
Table 14.4.6-1	1	16.6
Table 14.4.6-2	1	16.6
Table 14.4.6-3	1	16.6
Table 14.4.6-3A	1	16.6
Table 14.4.6-4	1	16.6
Table 14.4.6-4A	1	16.6
Table 14.4.6-5	1	21.2
Table 14.4.6-5A	1	16.6
Table 14.4.6-6	1	16.6
Table 14.4.6-6A	2	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 82 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.4.6-6B	2	16.6
Table 14.4.6-6C	2	16.6
Table 14.4.6-7	1	16.6
Table 14.4.6-8	1	16.6
Table 14.4.6-9	1	16.6
Table 14.4.6-10	1	16.6
Table 14.4.6-11	1	16.6
Table 14.4.6-12	1	16.6
Table 14.4.6-13	1	16.6
Table 14.4.6-14	1	16.6
Table 14.4.6-15	1	16.6
Table 14.4.6-15A	1	16.6
Table 14.4.6-16	1	16.6
Table 14.4.6-16A	1	16.6
Table 14.4.6-17	1	16.6
Table 14.4.6-18	4	16.4
Table 14.4.6-19	1	16.6
Table 14.4.6-20	1	16.6
Table 14.4.8-1	2	16.4
Table 14.4.8-2	1	16.4



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 83 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Table 14.4.11-1	1	29.0
Table 14.4.11-2	1	29.0
Table 14.4.11-3	1	29.0
Table 14.4.11-4	1	29.0
Table 14.4.11-5	1	29.0
Table 14.4.11-6	1	29.0
Table 14.4.11-7	1	29.0
Table 14.4.11-8	1	29.0
Figures		
Figure 14.1.0-1	1	19.1
Figure 14.1.0-2	1	07/1993
Figure 14.1.0-3	1	07/1993
Figure 14.1.0-4	1	07/1993
Figure 14.1.0-5	1	07/1993
Figure 14.1.0-6	1	07/1993
Figure 14.1.0-6A	1	18.1
Figure 14.1.0-7	1	07/1993
Figure 14.1.1-1	1	18
Figure 14.1.1-2	1	18
Figure 14.1.2B-1	1	07/1991



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 84 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.1.2B-2	1	07/1991
Figure 14.1.2B-3	1	07/1991
Figure 14.1.2B-4	1	07/1991
Figure 14.1.2B-5	1	07/1991
Figure 14.1.2B-6	1	07/1991
Figure 14.1.2B-7	1	07/1991
Figure 14.1.2B-8	1	07/1991
Figure 14.1.2B-9	1	07/1991
Figure 14.1.3-1	1	07/1991
Figure 14.1.3-2	1	07/1991
Figure 14.1.6-1	1	07/1991
Figure 14.1.6-2	1	07/1991
Figure 14.1.6-3	1	07/1991
Figure 14.1.6-4	1	07/1991
Figure 14.1.6-5	1	07/1991
Figure 14.1.6-6	1	07/1991
Figure 14.1.6-7	1	07/1991
Figure 14.1.6-8	1	07/1991
Figure 14.1.6-9	1	18.1
Figure 14.1.6-10	1	18.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 85 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.1.6-11	1	07/1991
Figure 14.1.6-12	1	07/1991
Figure 14.1.8-1	1	18.1
Figure 14.1.8-2	1	18.1
Figure 14.1.8-3	1	18.1
Figure 14.1.8-4	1	18.1
Figure 14.1.8-5	1	18.1
Figure 14.1.8-6	1	18.1
Figure 14.1.8-7	1	18.1
Figure 14.1.8-8	1	18.1
Figure 14.1.8-9	1	18.1
Figure 14.1.8-10	1	18.1
Figure 14.1.8-11	1	18.1
Figure 14.1.8-12	1	18.1
Figure 14.1.9-1	1	07/1992
Figure 14.1.9-2	1	20.2
Figure 14.1.9-3	1	07/1992
Figure 14.1.10B-1	1	07/1993
Figure 14.1.10B-2	1	07/1993
Figure 14.1.10B-3	1	07/1993



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 86 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.1.10B-4	1	07/1993
Figure 14.1.10B-5	1	07/1993
Figure 14.1.10B-6	1	07/1993
Figure 14.1.10B-7	1	07/1993
Figure 14.1.10B-8	1	07/1993
Figure 14.1.11B-1	1	07/1991
Figure 14.1.11B-2	1	07/1991
Figure 14.1.11B-3	1	07/1991
Figure 14.1.11B-4	1	07/1991
Figure 14.1.11B-5	1	07/1991
Figure 14.1.11B-6	1	07/1991
Figure 14.1.11B-7	1	07/1991
Figure 14.1.11B-8	1	07/1991
Figure 14.1.12-1	1	20.2
Figure 14.1.12-2	1	07/1992
Figure 14.2.5-1	1	29.0
Figure 14.2.5-2	1	29.0
Figure 14.2.5-3	1	07/1991
Figure 14.2.5-4	1	29.0
Figure 14.2.5-5	1	29.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 87 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.2.5-6	1	29.0
Figure 14.2.6-1	1	07/1991
Figure 14.2.6-2	1	07/1991
Figure 14.2.8-1	1	07/1991
Figure 14.2.8-2	1	07/1991
Figure 14.2.8-3	1	07/1991
Figure 14.2.8-4	1	07/1991
Figure 14.2.8-5	1	07/1991
Figure 14.2.8-6	1	07/1991
Figure 14.2.8-7	1	07/1991
Figure 14.2.8-8	1	07/1991
Figure 14.3.1-1A	1	24.0
Figure 14.3.1-1B	1	24.0
Figure 14.3.1-1C	1	24.0
Figure 14.3.1-1D	1	24.0
Figure 14.3.1-1E	1	24.0
Figure 14.3.1-1F	1	24.0
Figure 14.3.1-1G	1	24.0
Figure 14.3.1-1H	1	24.0
Figure 14.3.1-1I	1	24.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 88 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.1-1J	1	24.0
Figure 14.3.1-1K	1	24.0
Figure 14.3.1-1L	1	24.0
Figure 14.3.1-1M	1	24.0
Figure 14.3.1-2	1	24.0
Figure 14.3.1-3	1	24.0
Figure 14.3.1-4	1	24.0
Figure 14.3.1-5	1	24.0
Figure 14.3.1-6	1	24.0
Figure 14.3.1-7	1	24.0
Figure 14.3.1-8	1	24.0
Figure 14.3.1-9	1	24.0
Figure 14.3.2-1	1	24.0
Figure 14.3.2-2	1	24.0
Figure 14.3.2-3	1	24.0
Figure 14.3.2-4	1	24.0
Figure 14.3.2-5	1	24.0
Figure 14.3.2-6	1	24.0
Figure 14.3.2-7	1	24.0
Figure 14.3.2-8	1	24.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 89 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.2-9	1	24.0
Figure 14.3.2-10	1	24.0
Figure 14.3.2-11	1	24.0
Figure 14.3.2-12	1	24.0
Figure 14.3.2-13	1	24.0
Figure 14.3.2-14	1	24.0
Figure 14.3.2-15	1	24.0
Figure 14.3.2-16	1	24.0
Figure 14.3.2-17	1	24.0
Figure 14.3.2-18	1	24.0
Figure 14.3.2-19	1	24.0
Figure 14.3.2-20	1	24.0
Figure 14.3.2-21	1	24.0
Figure 14.3.2-22	1	24.0
Figure 14.3.2-23	1	24.0
Figure 14.3.2-24	1	24.0
Figure 14.3.2-25	1	24.0
Figure 14.3.2-26	1	24.0
Figure 14.3.2-27	1	24.0
Figure 14.3.2-28	1	24.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 90 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.2-29	1	24.0
Figure 14.3.2-30	1	24.0
Figure 14.3.2-31	1	24.0
Figure 14.3.2-32A	1	29.0
Figure 14.3.2-32B	1	29.0
Figure 14.3.2-32C	1	29.0
Figure 14.3.2-32D	1	29.0
Figure 14.3.3-1	1	07/1994
Figure 14.3.3-2	1	07/1994
Figure 14.3.3-3	1	07/1994
Figure 14.3.3-4	1	07/1994
Figure 14.3.3-5	1	07/1994
Figure 14.3.3-6	1	07/1994
Figure 14.3.3-7	1	07/1994
Figure 14.3.3-8	1	07/1994
Figure 14.3.4-1	1	27.0
Figure 14.3.4-2	1	27.0
Figure 14.3.4-3	1	27.0
Figure 14.3.4-4	1	27.0
Figure 14.3.4-5	1	27.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 91 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-6	1	28.0
Figure 14.3.4-6A	1	28.0
Figure 14.3.4-7	1	28.0
Figure 14.3.4-8	1	28.0
Figure 14.3.4-9	1	28.0
Figure 14.3.4-10	1	28.0
Figure 14.3.4-11A	1	27.0
Figure 14.3.4-11B	1	27.0
Figure 14.3.4-12A	1	27.0
Figure 14.3.4-12B	1	27.0
Figures 14.3.4-13	1	28.0
Figure 14.3.4-14	1	28.0
Figure 14.3.4-15	1	28.0
Figure 14.3.4-16	1	28.0
Figure 14.3.4-17	1	28.0
Figure 14.3.4-18	1	28.0
Figure 14.3.4-19	1	28.0
Figure 14.3.4-20	1	28.0
Figure 14.3.4-21	1	28.0
Figure 14.3.4-22	1	28.0



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 92 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-23	1	28.0
Figure 14.3.4-24	1	28.0
Figure 14.3.4-25	2	28.0
Figure 14.3.4-26	1	28.0
Figure 14.3.4-27	1	28.0
Figure 14.3.4-28	1	28.0
Figure 14.3.4-29	1	28.0
Figure 14.3.4-30	1	28.0
Figure 14.3.4-31	1	28.0
Figure 14.3.4-32	1	17.1
Figure 14.3.4-33	1	17.1
Figure 14.3.4-34	1	17.1
Figure 14.3.4-35	1	19.3
Figure 14.3.4-36	1	19.3
Figure 14.3.4-37	1	19.3
Figure 14.3.4-38	1	19.3
Figure 14.3.4-39	1	19.3
Figure 14.3.4-40	1	19.3
Figure 14.3.4-41	1	19.3
Figure 14.3.4-42	1	19.3



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 93 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-43	1	19.3
Figure 14.3.4-44	1	17.1
Figure 14.3.4-45	1	17.1
Figure 14.3.4-46	1	17.1
Figure 14.3.4-47	1	17.1
Figure 14.3.4-48	1	17.1
Figure 14.3.4-49	1	17.1
Figure 14.3.4-50	1	17.1
Figure 14.3.4-51	1	17.1
Figure 14.3.4-52	1	17.1
Figure 14.3.4-53	1	17.1
Figure 14.3.4-54	1	17.1
Figure 14.3.4-55	1	17.1
Figure 14.3.4-56	1	17.1
Figure 14.3.4-57	1	17.1
Figure 14.3.4-58	1	17.1
Figure 14.3.4-59	1	17.1
Figure 14.3.4-60	1	17.1
Figure 14.3.4-61	1	17.1
Figure 14.3.4-62	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 94 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-63	1	17.1
Figure 14.3.4-64	1	17.1
Figure 14.3.4-65	1	17.1
Figure 14.3.4-66	1	17.1
Figure 14.3.4-67	1	17.1
Figure 14.3.4-68	1	17.1
Figure 14.3.4-69	1	17.1
Figure 14.3.4-70	1	17.1
Figure 14.3.4-71	1	17.1
Figure 14.3.4-72	1	17.1
Figure 14.3.4-73	1	17.1
Figure 14.3.4-74	1	17.1
Figure 14.3.4-75	1	17.1
Figure 14.3.4-76	1	17.1
Figure 14.3.4-77	1	17.1
Figure 14.3.4-78	1	17.1
Figure 14.3.4-79	1	17.1
Figure 14.3.4-80	1	17.1
Figure 14.3.4-81	1	17.1
Figure 14.3.4-82	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 95 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-83	1	17.1
Figure 14.3.4-84	1	17.1
Figure 14.3.4-85	1	17.1
Figure 14.3.4-86	1	17.1
Figure 14.3.4-87	1	17.1
Figure 14.3.4-88	1	17.1
Figure 14.3.4-89	1	17.1
Figure 14.3.4-90	1	17.1
Figure 14.3.4-91	1	17.1
Figure 14.3.4-92	1	17.1
Figure 14.3.4-93	1	17.1
Figure 14.3.4-94	1	17.1
Figure 14.3.4-95	1	17.1
Figure 14.3.4-96	1	17.1
Figure 14.3.4-97	1	17.1
Figure 14.3.4-98	1	17.1
Figure 14.3.4-99	1	17.1
Figure 14.3.4-100	1	17.1
Figure 14.3.4-101	1	17.1
Figure 14.3.4-102	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 96 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-103	1	17.1
Figure 14.3.4-104	1	17.1
Figure 14.3.4-105	1	17.1
Figure 14.3.4-106	1	17.1
Figure 14.3.4-107	1	17.1
Figure 14.3.4-108	1	17.1
Figure 14.3.4-109	1	17.1
Figure 14.3.4-110	1	17.1
Figure 14.3.4-111	1	17.1
Figure 14.3.4-112	1	17.1
Figure 14.3.4-113	1	17.1
Figure 14.3.4-114	1	17.1
Figure 14.3.4-115	1	17.1
Figure 14.3.4-116	1	17.1
Figure 14.3.4-117	1	17.1
Figure 14.3.4-118	1	17.1
Figure 14.3.4-119	1	17.1
Figure 14.3.4-120	1	17.1
Figure 14.3.4-121	1	17.1
Figure 14.3.4-122	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 97 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-123	1	17.1
Figure 14.3.4-124	1	17.1
Figure 14.3.4-125	1	17.1
Figure 14.3.4-126	1	17.1
Figure 14.3.4-127	1	17.1
Figure 14.3.4-128	1	17.1
Figure 14.3.4-129	1	17.1
Figure 14.3.4-130	1	17.1
Figure 14.3.4-131	1	17.1
Figure 14.3.4-132	1	22.1
Figure 14.3.4-133	1	17.1
Figure 14.3.4-134	1	17.1
Figure 14.3.4-135	1	17.1
Figure 14.3.4-136	1	17.1
Figure 14.3.4-137	1	17.1
Figure 14.3.4-138	1	17.1
Figure 14.3.4-139	1	17.1
Figure 14.3.4-140	1	17.1
Figure 14.3.4-141	1	17.1
Figure 14.3.4-142	1	17.1



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 98 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.3.4-143	1	17.1
Figure 14.3.4-144	1	17.1
Figure 14.3.4-145	1	17.1
Figure 14.3.4-146	1	17.1
Figure 14.3.4-147	1	17.1
Figure 14.3.4-148	1	17.1
Figure 14.3.4-149	1	17.1
Figure 14.3.4-150	1	17.1
Figure 14.3.4-151	1	17.1
Figure 14.3.4-152	1	17.1
Figure 14.3.4-153	1	17.1
Figure 14.3.4-154	1	17.1
Figure 14.3.4-155	1	17.1
Figure 14.3.4-156	1	17.1
Figure 14.3.4-157	1	17.1
Figure 14.3.4-158	1	17.1
Figure 14.3.7-1	1	07/1997
Figure 14.4.2-1	1	16.4
Figure 14.4.2-1A	1	16.6
Figure 14.4.2-2	1	16.4



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page: 99 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 14 (UNIT 2)</u>		
Figure 14.4.2-2A	1	16.6
Figure 14.4.2-7	1	16.6
Figure 14.4.6-1	1	16.6
Figure 14.4.6-2	1	16.6
Figure 14.4.6-3	1	16.6
Figure 14.4.6-4	1	16.6
Figure 14.4.6-5	1	16.6
Figure 14.4.6-6	1	16.6
Figure 14.4.6-8	1	16.6
Figure 14.4.6-11	1	16.6
Figure 14.4.8-1	1	16.6
Figure 14.4.8-2	1	16.6
Figure 14.4.8-3	1	16.6
Figure 14.4.8-4	1	16.6
Figure 14.4.8-5	1	16.6
Figure 14.4.8-6	1	16.6
Figure 14.4.8-7	1	16.6
Figure 14.4.9-1	1	16.6
Figure 14.4.9-2	1	16.6



**INDIANA AND MICHIGAN POWER
D. C. COOK NUCLEAR PLANT
UPDATED FINAL SAFETY ANALYSIS REPORT**

Revised: 32.0
Chapter: LOEP
Page:100 of 100

List of Effective Pages

Title	Number of Pages	Last Revised
<u>CHAPTER 15</u>		
Table Of Contents	4	32.0
Supplement For Renewed Operating Licenses	28	32.0