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Indiana Michigan Power  
Cook Nuclear Plant  
One Cook Place  
Bridgman, MI 49106  
IndianaMichiganPower.com

October 24, 2019

AEP-NRC-2019-53  
10 CFR 50.71(e)  
10 CFR 50.59(d)(2)  
10 CFR 50.54(a)(3)  
10 CFR 54.37(b)

Docket Nos.: 50-315  
50-316

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Donald C. Cook Nuclear Plant Units 1 and 2  
10 CFR 50.71(e) UPDATE AND RELATED SITE CHANGE REPORTS

- References:
1. Nuclear Energy Institute 98-03, "Guidelines for Updating Final Safety Analysis Reports," Revision 1, dated June 1999.
  2. Letter from J. B. Hickman, U. S. Nuclear Regulatory Commission (NRC), to E. E. Fitzpatrick, Indiana Michigan Power Company (I&M), "Donald C. Cook Nuclear Plant, Units 1 and 2 – Exemption to 10 CFR 50.71(e)(4) (TAC Nos. M99494 and M99495)," dated March 3, 1998.
  3. Letter from Q. Shane Lies, I&M, to NRC Document Control Desk, "Donald C. Cook Nuclear Plant Units 1 and 2, 10 CFR 50.71(e) Update and Related Site Change Reports," AEP-NRC-2018-17, dated May 25, 2018.

Indiana Michigan Power Company (I&M), the licensee for Donald C. Cook Nuclear Plant (CNP) Units 1 and 2, hereby submits the CNP Updated Final Safety Analysis Report (UFSAR) update as required by 10 CFR 50.71(e), utilizing the guidance published in Reference 1. The reporting period for this update is from November 29, 2017, through May 15, 2019. Reference 2 requires I&M to submit updates to the CNP UFSAR once every Unit 1 fuel cycle, within six months of the end of the refueling outage, not to exceed 24 months from the last submittal. The most recent Unit 1 refueling outage ended May 8, 2019. The last update submittal was provided on May 25, 2018, by Reference 3.

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In addition to the UFSAR, the following reports are provided:

CNP Report of Changes, Tests, and Experiments as required by 10 CFR 50.59(d)(2);

CNP Commitment Change Summary Report as recommended by Nuclear Energy Institute 99-04, "Guidelines for Managing Nuclear Regulatory Commission Commitment Changes;"

Changes to the CNP Unit 1 and Unit 2 Technical Specification (TS) Bases reflected in updated copies of the TS Bases consistent with CNP Unit 1 and Unit 2 Technical Specifications 5.5.12.d;

Changes to the CNP Unit 1 and Unit 2 Technical Requirements Manuals (TRMs) reflected in updated copies of the TRMs;

Changes and updates to the CNP Fire Protection Program reflected in updated copies of the applicable documents; and

Changes to the CNP Quality Assurance Program Description (QAPD) made during the reporting period as reflected in the updated copy of the QAPD.

I&M is providing all information on Optical Storage Media following guidance from Revision 8 of "Guidance for Electronic Submissions to the NRC," to the extent practical. In some areas of the UFSAR, image resolution is less than the desired 300 pixels per inch. This is primarily seen in older graphics. Text search capability and page image printing is not affected. Enclosure 1 provides a summary of the information contained on each disk. Enclosure 2 provides the directory structure and file listing for each disk.

Enclosures 3 and 5 have been reviewed in accordance with the guidance provided in Regulatory Issue Summary 2015-17, "Review and Submission of Updates to Final Safety Analysis Reports, Emergency Preparedness Documents, and Fire Protection Documents," and Enclosure 3 has been determined to contain information to be withheld from public disclosure in accordance with 10 CFR 2.390. Therefore, a redacted copy has been provided as Enclosure 4. This letter contains no new or modified regulatory commitments. Should you have any questions, please contact Mr. Michael K. Scarpello, Regulatory Affairs Director, at (269) 466-2649.

Pursuant to 10 CFR 50.71(e)(2), I certify that the information provided accurately presents changes made since the previous submittal, necessary to reflect information and analyses

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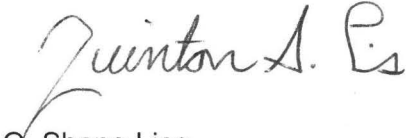
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submitted to the Commission or prepared pursuant to Commission requirements and changes made under the provisions of 10 CFR 50.59.

Sincerely,



Q. Shane Lies  
Site Vice President

MDS/kmh

- Enclosure 1: Electronic File Submittal Summary
- Enclosure 2: Directory Structure and File Listing for Optical Storage Media
- Enclosure 3: Optical Storage Media (OSM) #1
- Enclosure 4: Optical Storage Media (OSM) #2
- Enclosure 5: Optical Storage Media (OSM) #3

- c: R. J Ancona – MPSC, w/o enclosures  
R. F. Kuntz – NRC Washington, DC  
INPO – OSM #1  
EGLE – RMD/RPS, w/o enclosures  
NRC Resident Inspector  
D. J. Roberts – NRC Region III  
A. J. Williamson – AEP Ft. Wayne, w/o enclosures

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### Electronic File Submittal Summary

Optical Storage Media (OSM) #1 (Enclosure 3) - Donald C. Cook Nuclear Plant (CNP) Updated Final Safety Analysis Report (UFSAR), Revision 29. OSM #1 contains Revision 29 of the CNP UFSAR in its entirety. A non-proprietary file reader (Adobe Acrobat Reader) is required to view the document.

OSM #2 (Enclosure 4) contains a Redacted Revision 29 of the CNP UFSAR in its entirety. A non-proprietary file reader (Adobe Acrobat Reader) is required to view the document.

OSM #3 (Enclosure 5) contains the following documents:

- CNP Report of Changes, Tests, and Experiments Pursuant to 10 CFR 50.59(d)(2)
- CNP Commitment Change Summary
- CNP Unit 1 Technical Specification (TS) Bases – Revision 70
- CNP Unit 2 TS Bases – Revision 68
- CNP Unit 1 Technical Requirement Manual (TRM) – Revision 79
- CNP Unit 2 TRM – Revision 79
- CNP National Fire Protection Association 805 Fire Protection Program Manual – Revision 3
- CNP Nuclear Safety Capability Assessment – Revision 5
- CNP Fire Safety Analysis – Revision 3
- CNP Quality Assurance Program Description – Revision 25

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**Directory Structure and File Listing for Optical Storage Media**

Optical Storage Media (OSM) #1 (Enclosure 3)

OSM #1 contains Revision 29 of the Donald C. Cook Nuclear Plant (CNP) Updated Final Safety Analysis Report (UFSAR) in its entirety.

Directory\UFSAR	
File Name	Approximate File Size (KB)
UFSAR\	<DIR>
001-CHAPTER00_U12_LOEP.pdf	898
002-CHAPTER01_U12_01_TEXT.pdf	750
003-CHAPTER01_U12_02_TABLES.pdf	469
004-CHAPTER01_U12_03_FIGURES.pdf	27353
005-CHAPTER02_U12_01_TEXT.pdf	697
006-CHAPTER02_U12_02_TABLES.pdf	1182
007-CHAPTER02_U12_03_FIGURES.pdf	3604
008-CHAPTER03_U1_01_TEXT.pdf	918
009-CHAPTER03_U1_02_TABLES.pdf	609
010-CHAPTER03_U1_03_FIGURES.pdf	1749
011-CHAPTER03_U2_01_TEXT.pdf	1211
012-CHAPTER03_U2_02_TABLES.pdf	665
013-CHAPTER03_U2_03_FIGURES.pdf	7603
014-CHAPTER04_U12_01_TEXT.pdf	653
015-CHAPTER04_U12_02_TABLES.pdf	653
016-CHAPTER04_U12_03_FIGURES.pdf	5698
017-CHAPTER05_U12_01_TEXT.pdf	1274
018-CHAPTER05_U12_02_TABLES.pdf	946
019-CHAPTER05_U12_03_FIGURES.pdf	9487
020-CHAPTER06_U12_01_TEXT.pdf	475
021-CHAPTER06_U12_02_TABLES.pdf	384
022-CHAPTER06_U12_03_FIGURES.pdf	3213
023-CHAPTER07_U12_01_TEXT.pdf	687
024-CHAPTER07_U12_02_TABLES.pdf	763
025-CHAPTER07_U12_03_FIGURES.pdf	1745
026-CHAPTER08_U12_01_TEXT.pdf	351
027-CHAPTER08_U12_02_TABLES.pdf	148
028-CHAPTER08_U12_03_FIGURES.pdf	3104
029-CHAPTER09_U12_01_TEXT.pdf	872

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Directory\UFSAR	
File Name	Approximate File Size (KB)
030-CHAPTER09_U12_02_TABLES.pdf	837
031-CHAPTER09_U12_03_FIGURES.pdf	23895
032-CHAPTER10_U12_01_TEXT.pdf	341
033-CHAPTER10_U12_02_TABLES.pdf	159
034-CHAPTER10_U12_03_FIGURES.pdf	9329
035-CHAPTER11_U12_01_TEXT.pdf	485
036-CHAPTER11_U12_02_TABLES.pdf	504
037-CHAPTER11_U12_03_FIGURES.pdf	3492
038-CHAPTER12_U12_01_TEXT.pdf	328
039-CHAPTER13_U12_01_TEXT.pdf	279
040-CHAPTER13_U12_02_TABLES.pdf	223
041-CHAPTER14.00_U1_01_TEXT.pdf	262
042-CHAPTER14.01_U1_01_TEXT.pdf	717
043-CHAPTER14.01_U1_02_TABLES.pdf	414
044-CHAPTER14.01_U1_03_FIGURES.pdf	76732
045-CHAPTER14.02_U1_01_TEXT.pdf	550
046-CHAPTER14.02_U1_02_TABLES.pdf	370
047-CHAPTER14.02_U1_03_FIGURES.pdf	808
048-CHAPTER14.03_U1_01_TEXT.pdf	1310
049-CHAPTER14.03_U1_02_TABLES.pdf	2037
050-CHAPTER14.03_U1_03_FIGURES_Part 1 of 2.pdf	82849
051-CHAPTER14.03_U1_03_FIGURES_Part 2 of 2.pdf	32885
052-CHAPTER14.04_U1_01_TEXT.pdf	159
053-CHAPTER14.A-G_U1_01_TEXT.pdf	342
054-CHAPTER14.A-G_U1_03_FIGURES.pdf	194
055-CHAPTER14.00_U2_01_TEXT.pdf	248
056-CHAPTER14.00_U2_02_TABLES.pdf	143
057-CHAPTER14.01_U2_01_TEXT.pdf	575
058-CHAPTER14.01_U2_02_TABLES.pdf	487
059-CHAPTER14.01_U2_03_FIGURES.pdf	17667
060-CHAPTER14.02_U2_01_TEXT.pdf	424
061-CHAPTER14.02_U2_02_TABLES.pdf	266
062-CHAPTER14.02_U2_03_FIGURES.pdf	17813
063-CHAPTER14.03.01-03_U2_01_TEXT.pdf	519
064-CHAPTER14.03.01-03_U2_02_TABLES.pdf	708
065-CHAPTER14.03.01-03_U2_03_FIGURES.pdf	11318

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Directory\UFSAR	
File Name	Approximate File Size (KB)
066-CHAPTER14.03.04_U2_01_TEXT.pdf	844
067-CHAPTER14.03.04_U2_02_TABLES.pdf	1667
068-CHAPTER14.03.04_U2_03_FIGURES.pdf	42160
069-CHAPTER14.03.05-09_U2_01_TEXT.pdf	297
070-CHAPTER14.03.05-09_U2_02_TABLES.pdf	155
071-CHAPTER14.03.05-09_U2_03_FIGURES.pdf	107
072-CHAPTER14.04_U1_02_TABLES.pdf	1126
073-CHAPTER14.04_U2_01_TEXT.pdf	573
074-CHAPTER14.04_U2_02_TABLES.pdf	1980
075-CHAPTER14.04_U2_03_FIGURES.pdf	776
076-CHAPTER14.A_U2_01_TEXT.pdf	157
077-CHAPTER15.00_U2_01_TEXT.pdf	427

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OSM #2 (Enclosure 4) contains a redacted copy of Revision 29 of the CNP UFSAR in its entirety.

Directory\UFSAR-R	
File Name	Approximate File Size (KB)
UFSAR-R\	<DIR>
078-CHAPTER00_U12_LOEP	898
079-CHAPTER01_U12_01_TEXT.pdf	750
080-CHAPTER01_U12_02_TABLES.pdf	469
081-CHAPTER01_U12_03_FIGURES-R.pdf	5265
082-CHAPTER02_U12_01_TEXT.pdf	697
083-CHAPTER02_U12_02_TABLES.pdf	1182
084-CHAPTER02_U12_03_FIGURES.pdf	3604
085-CHAPTER03_U1_01_TEXT.pdf	918
086-CHAPTER03_U1_02_TABLES.pdf	609
087-CHAPTER03_U1_03_FIGURES.pdf	1749
088-CHAPTER03_U2_01_TEXT.pdf	1211
089-CHAPTER03_U2_02_TABLES.pdf	665
090-CHAPTER03_U2_03_FIGURES.pdf	7603
091-CHAPTER04_U12_01_TEXT.pdf	653
092-CHAPTER04_U12_02_TABLES.pdf	653
093-CHAPTER04_U12_03_FIGURES.pdf	5698
094-CHAPTER05_U12_01_TEXT.pdf	1274
095-CHAPTER05_U12_02_TABLES.pdf	946
096-CHAPTER05_U12_03_FIGURES-R.pdf	8601
097-CHAPTER06_U12_01_TEXT.pdf	475
098-CHAPTER06_U12_02_TABLES.pdf	384
099-CHAPTER06_U12_03_FIGURES.pdf	3213
100-CHAPTER07_U12_01_TEXT.pdf	687
101-CHAPTER07_U12_02_TABLES.pdf	763
102-CHAPTER07_U12_03_FIGURES.pdf	1745
103-CHAPTER08_U12_01_TEXT.pdf	351
104-CHAPTER08_U12_02_TABLES.pdf	148
105-CHAPTER08_U12_03_FIGURES.pdf	3104
106-CHAPTER09_U12_01_TEXT.pdf	872
107-CHAPTER09_U12_02_TABLES.pdf	837
108-CHAPTER09_U12_03_FIGURES.pdf	23895
109-CHAPTER10_U12_01_TEXT.pdf	341

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DirectoryUFSAR-R	
File Name	Approximate File Size (KB)
110-CHAPTER10_U12_02_TABLES.pdf	159
111-CHAPTER10_U12_03_FIGURES.pdf	9329
112-CHAPTER11_U12_01_TEXT.pdf	485
113-CHAPTER11_U12_02_TABLES.pdf	504
114-CHAPTER11_U12_03_FIGURES.pdf	3492
115-CHAPTER12_U12_01_TEXT.pdf	328
116-CHAPTER13_U12_01_TEXT.pdf	279
117-CHAPTER13_U12_02_TABLES.pdf	223
118-CHAPTER14.00_U1_01_TEXT.pdf	262
119-CHAPTER14.01_U1_01_TEXT.pdf	717
120-CHAPTER14.01_U1_02_TABLES.pdf	414
121-CHAPTER14.01_U1_03_FIGURES.pdf	76732
122-CHAPTER14.02_U1_01_TEXT.pdf	550
123-CHAPTER14.02_U1_02_TABLES.pdf	370
124-CHAPTER14.02_U1_03_FIGURES.pdf	808
125-CHAPTER14.03_U1_01_TEXT.pdf	1310
126-CHAPTER14.03_U1_02_TABLES.pdf	2037
127-CHAPTER14.03_U1_03_FIGURES_Part 1 of 2.pdf	82849
128-CHAPTER14.03_U1_03_FIGURES_Part 2 of 2.pdf	32885
129-CHAPTER14.04_U1_01_TEXT.pdf	159
130-CHAPTER14.A-G_U1_01_TEXT.pdf	342
131-CHAPTER14.A-G_U1_03_FIGURES.pdf	194
132-CHAPTER14.00_U2_01_TEXT.pdf	248
133-CHAPTER14.00_U2_02_TABLES.pdf	143
134-CHAPTER14.01_U2_01_TEXT.pdf	575
135-CHAPTER14.01_U2_02_TABLES.pdf	487
136-CHAPTER14.01_U2_03_FIGURES.pdf	17667
137-CHAPTER14.02_U2_01_TEXT.pdf	424
138-CHAPTER14.02_U2_02_TABLES.pdf	266
139-CHAPTER14.02_U2_03_FIGURES.pdf	17813
140-CHAPTER14.03.01-03_U2_01_TEXT.pdf	519
141-CHAPTER14.03.01-03_U2_02_TABLES.pdf	708
142-CHAPTER14.03.01-03_U2_03_FIGURES.pdf	11318
143-CHAPTER14.03.04_U2_01_TEXT.pdf	844
144-CHAPTER14.03.04_U2_02_TABLES.pdf	1667
145-CHAPTER14.03.04_U2_03_FIGURES.pdf	42160

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Directory\UFSAR-R	
File Name	Approximate File Size (KB)
146-CHAPTER14.03.05-09_U2_01_TEXT.pdf	297
147-CHAPTER14.03.05-09_U2_02_TABLES.pdf	155
148-CHAPTER14.03.05-09_U2_03_FIGURES.pdf	107
149-CHAPTER14.04_U1_02_TABLES.pdf	1126
150-CHAPTER14.04_U2_01_TEXT.pdf	573
151-CHAPTER14.04_U2_02_TABLES.pdf	1980
152-CHAPTER14.04_U2_03_FIGURES.pdf	776
153-CHAPTER14.A_U2_01_TEXT.pdf	157
154-CHAPTER15.00_U2_01_TEXT.pdf	427

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OSM #3 (Enclosure 5)

OSM #3 File Descriptions: (All files are considered to be publicly available.)

- CNP Report of Changes, Tests, and Experiments Pursuant to 10 CFR 50.59(d)(2)
- CNP Commitment Change Summary
- CNP Unit 1 Technical Specification (TS) Bases – Revision 70
- CNP Unit 2 TS Bases – Revision 68
- CNP Unit 1 Technical Requirements Manual (TRM) – Revision 79
- CNP Unit 2 TRM – Revision 79
- CNP National Fire Protection Association 805 Fire Protection Program Manual – Revision 3
- CNP Nuclear Safety Capability Assessment – Revision 5
- CNP Fire Safety Analysis – Revision 3
- CNP Quality Assurance Program Description – Revision 25

OSM #3 File Listing:

File Name	Approx. File Size (KB)
155-REPORT-2019-50.59.pdf	129
156-REPORT-2019-COM CHG SUMMARY.pdf	270
157-TSB-U1-R70.pdf	4607
158-TSB-U2-R68.pdf	4727
159-TRM-U1-R79.pdf	1951
160-TRM-U2-R79.pdf	1996
161-NFPPM-R03.pdf	2640
162-SSCA-R05.pdf	5350
163-FSA-R03.pdf	11133
164-QAPD-R25.pdf	1586

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