



**Entergy Nuclear Operations, Inc.**

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**Anthony J. Vitale**  
Site Vice President

10 CFR 50.71(e)

NL-19-077

September 26, 2019

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
11545 Rockville Pike, TWFN-2 F1  
Rockville, MD 20852-2738

Subject: Indian Point Unit No. 3 Amendment Update to the  
Updated Final Safety Analysis Report (UFSAR), Revision 08  
Indian Point Nuclear Generating Unit No. 3  
Docket No. 50-286  
License No. DPR-64

References: 1. NEI 98-03, "Guidelines for Updating Final Safety Analysis  
Reports," Revision 1, June 1999  
  
2. NEI 99-04, "Guidelines for Managing NRC Commitments," Revision 2,  
December 1995

Dear Sir or Madam:

Entergy Nuclear Operations, Inc. (Entergy), in accordance with 10 CFR 50.71(e), hereby transmits the most recent update to the Updated Final Safety Analysis Report (UFSAR) for Indian Point Unit 3 (IP3). This submittal incorporates applicable changes made to the IP3 facility since the UFSAR update in October 2017, through the information available, at a minimum, as of April 9, 2019. Note that the last IP3 refueling outage was completed on April 9, 2019. This submittal constitutes the eighth (8th) revision to the IP3 UFSAR.

Entergy is submitting copies of the entire IP3 UFSAR, IP3 Technical Specification Bases, IP3 Technical Requirements Manual (TRM), and the Holtec International, "Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at the Indian Point Energy Center, Revision 10" in the electronic medium of Adobe PDF on DVDs in accordance with the guidance contained in NRC, "Guidance for Electronic Submissions to the NRC," May 18, 2017, Revision 8.

Two (2) DVDs are enclosed, Enclosure 1 containing a Redacted version of the UFSAR and Enclosure 2 a Non-Redacted version of the UFSAR. A Redacted version of the UFSAR has had certain sensitive information removed which was identified due to meeting the NRC's criteria on sensitive information, as specified in SECY-04-0191, "Withholding Sensitive Unclassified Information Concerning Nuclear Power Reactors from Public Disclosure." Entergy

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NRR

is requesting that the Non-Redacted version be withheld from the public in accordance with 10 CFR 2.390(d)(1) as material included within is classified as non-publicly available information. The Non-Redacted version of the UFSAR is for use by the NRC.

UFSAR changes to the text and tables since the last revision are indicated by gray highlighted background rather than a revision bar next to the line containing the change. Any UFSAR figures that have been revised since the last revision contain "Rev. 08" in the figure title block.

This update to the FSAR also contains information that has been classified as "Historical" information according to the NEI 98-03 definition (Reference 2), and is no longer subject to updating. Material designated as "Historical" information in the UFSAR is indicated by a green highlighted background.

Attachment 1 to this letter, "Summary Report of IP3 UFSAR Revision 08 Changes," contains a summary with a brief description of the information changed in this revision to the IP3 UFSAR.

IP3 Technical Specification 5.5.13.d, "Technical Specification Bases Control Program," requires that changes to the Bases implemented without prior NRC approval be provided to the NRC on a frequency consistent with 10 CFR 50.71(e). The required information is provided in Attachment 2, "Summary of Revisions to the IP3 Technical Specification Bases" and the entire document is provided on the enclosed DVDs.

As specified in NEI 98-03 (Reference 1), the Technical Requirements Manual (TRM) is controlled in a manner consistent with procedures fully or partially described in the UFSAR. Under this approach, the TRM document is subject to the change control requirements of 10 CFR 50.59. A "Summary of Revisions to the IP3 Technical Requirements Manual (TRM)" is provided in Attachment 3, and the entire document is provided on the enclosed DVDs.

NEI 99-04 (Reference 2) provides guidance on the commitments which may be changed without prior NRC approval, but which require periodic NRC staff notification either annually or along with the FSAR updates as required by 10 CFR 50.71(e). Attachment 4, "IP3 Commitment Change Summary Report," contains the commitment change that has not previously been filed with the NRC in separate correspondence.

As specified in NEI 98-03 (Reference 1), the Holtec International, "Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at the Indian Point Energy Center, Revision 10" is a licensee controlled document that is explicitly "incorporated by reference" into the IPEC IP3 UFSAR. Under this approach, the referenced document is subject to the change control requirements of 10 CFR 50.59 and the update/reporting requirements of 10 CFR 50.71(e). The entire document is provided on the enclosed DVDs.

There are no new commitments contained in this letter. In the event of any questions, please contact Ms. Mahvash Mirzai, Acting Manager, Regulatory Assurance at 914-254-7714.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on September 26, 2019  
Date

Sincerely,



AJV/gd

Attachments:

1. Summary Report of IP3 UFSAR Revision 08 Changes
2. Summary of Revisions to the IP3 Technical Specification Bases
3. Summary of Revisions to the IP3 Technical Requirements Manual (TRM)
4. IP3 Commitment Change Summary Report

Enclosures:

1. DVD containing the IP3 REDACTED UFSAR (Rev. 08) files, entire documents of the IP3 Technical Specification Bases, IP3 TRM, and Rev. 6 of the Holtec International Licensing Report on the Inter-Unit Transfer of Spent Nuclear Fuel at IPEC
2. DVD containing the IP3 NON-REDACTED UFSAR (Rev. 08) files – Withhold from Public Disclosure per 10 CFR 2.390(d)(1)

cc with enclosures: NRC Senior Project Manager, NRR DORL

cc w/o enclosures:

- NRC Region I Regional Administrator  
NRC Senior Resident Inspector
- New York State Department of Public Service
- President and CEO, NYSERDA

Attachment 1  
to  
NL-19-077

**Summary Report of IP3 UFSAR Revision 08 Changes**

ENTERGY NUCLEAR OPERATIONS, INC.  
Indian Point Nuclear Generating Unit No. 3  
Docket No. 50-286  
Renewed License No. DPR-64

### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOS	INFORMATION / DESCRIPTION OF CHANGES
CHAPTER 1			
1.1	2	Editorial	Revision of effective date to April 9, 2019
1.3.3	37	EC-78241, PAD	Removal of references to turbine runback/cutback which were previously removed under DCP 97-3-367, DCP 99-3-063, TM 02-3-085
CHAPTER 2			
2.2.1	3	UFSAR-only Change	Removal of reference to Figure 2.2-1
2.3	5		
CHAPTER 3			
3.1.1	1	EC-76679	Cycle 21 fuel and core design changes, editorial changes
3.2.2.2	28		
3.2.2.4	31		
3.2.2.6	36		
3.2.3	39,40,45, 50,53,56		
3.2.5.5	67		
References	69,71,72		
T3.2-1	73-76		
T3.2-2	77		
T3.2-3	78		
T3.2-4	79-81		
T3.2-5	82-84		
F3.2-24A	New		
F3.2-24B	New		
CHAPTER 4			
None			

### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOs	INFORMATION / DESCRIPTION OF CHANGES
<b>CHAPTER 5</b>			
5.2	9321-F-* 27243  27363  27503	Other Approval	Replacement of drawings with their current revisions
<b>CHAPTER 6</b>			
6.2	9321-F- 27503	Other Approval	Replacement of drawing with its current revision
6.2	T6.2-13	EC-73244	Revision of the Net Positive Suction Head (NPSH) Required, the NPSH Available, and the Fluid Operating Temperature for the Auxiliary Feedwater pumps
<b>CHAPTER 7</b>			
7.2.1 7.2.2 7.3.1 7.4.2	4 19 44 62,65	EC-78241, PAD	Removal of references to turbine runback/cutback which were previously removed under DCP 97-3-367, DCP 99-3-063, TM 02-3-085
7.3.2	55	Other – drawings	Correction of the statement, “A valve 884A and B will not open if 730 and 731, respectively, are opened.” Should be 888A and B.
7.5	T7.5-1	EC-82411	Restoration of minimum required Core Exit Thermocouples for ‘A’ train in Quadrant 2
7.7	9321-F- 30523	Other Approval	Replacement of drawings with its current revision

### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOs	INFORMATION / DESCRIPTION OF CHANGES
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<b>CHAPTER 8</b>			
8.2.1 References	4 20	EC-52527, -60934, -60935	Addition of the Open Phase Detection System enabled trip function of the Unit 3 Station Auxiliary Transformer and Gas Turbine Autotransformer - implementation of the tripping function
8.2	9321-F-* 20303 30083 617F645	Other Approval	Replacement of drawings with their current revisions
<b>CHAPTER 9</b>			
9.2	9321-F-27363	Other Approval	Replacement of drawing with its current revision
9.2.2 9.3.2 9.3.3	24 43 51	Editorial	Editorial corrections - incorrect drawing and figure number and misspellings
9.3	9321-F-27513	Other Approval	Replacement of drawing with its current revision
9.3.3	50	EC-81269, CR-IP3-2018-03333	Clarification of the segment for CCW leakage provisions that credits operator action to close valves 769 and 797 before cooling is lost to essential components in the CCW loop.
9.5	103	EC-73905	To reference the revision of the HOLTEC Shielded Transfer Canister (STC) Licensing Report HI-2094289 that is currently in effect (Revision 10)

### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOs	INFORMATION / DESCRIPTION OF CHANGES
<b>CHAPTER 9 (cont'd)</b>			
9.5	9321-F-27353	Other Approval	Replacement of drawing with its current revision
9.6	9321-F-* 20333 Sh 1 27333 Sh 2 27223	Other Approval	Replacement of drawings with their current revisions
9.6	T9.6-1 T9.6-2 T9.6-2A	EC-73321	Revision of calculated service water flow rates as a result of the revision of the service water hydraulic model (IP-CALC-06-00017, Revision 2) to include all changes made to the service water system since Revision 1 and to incorporate the results of the essential header benchmark from 3R18 into the service water system alignment cases 3 – 35
<b>CHAPTER 10</b>			
10.2.3	19,20	EC-78241, PAD	Removal of references to turbine runback/cutback which were previously removed under DCP 97-3-367, DCP 99-3-063, TM 02-3-085
<b>CHAPTER 11</b>			
None			



### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOs	INFORMATION / DESCRIPTION OF CHANGES
<b>CHAPTER 12</b>			
12.1.1 12.1.2	2 8 F12.1-1	Editorial	Revise the following titles: <ul style="list-style-type: none"> <li>• Change VP, Oversight to VP, Independent Oversight</li> <li>• Change Director, Oversight to Director, Independent Oversight</li> <li>• Change Manager, Nuclear Oversight to Manager, Nuclear Independent Oversight</li> </ul>
12.1.1 12.1.2	F12.1-1 F12.1-2	Editorial, Other Approval	Organization Changes
12.8	13	Editorial	Editorial corrections regarding applicable paragraphs of 10 CFR 73.55 and the correct code citation for withholding security plan documents from public disclosure (10 CFR 2.390(d))
<b>CHAPTER 13</b>			
None			

### Summary Report of IP3 UFSAR Revision 08 Changes

UFSAR SECTION	AFFECTED PAGES, TABLE, DWG, FIGURE	SOURCE(S) of CHANGE, EC, 50.59, PAD, SCREEN NOs	INFORMATION / DESCRIPTION OF CHANGES
<b>CHAPTER 14</b>			
14.2.3	76	Calculation CRA-03-29	Revision to reflect acceptance criteria for Control Room operator dose limit in Section 4.0 of calculation CN-CRA-03-29 R3
14.3	179, 181, 182	Editorial	Addition of existing table numbers/names to Appendix B List of LOCA Analysis Tables
14.3.4.1 14.3.4.2 14.3.4.3 14.3 References	129 130.131 132 174,180	Westinghouse calculation LIS-03-108 and Westinghouse Letter LTR-RIDA-15-247 Rev. 0, "Indian Point Unit 3 (INT) Reactor Equipment System Model (RESM) FSAR Markups for PIEP"	Revision of the LOCA forces due to stretch power uprate
<b>CHAPTER 15</b>			
None			
<b>CHAPTER 16</b>			
None			
<b>CHAPTER 17</b>			
None			
<b>Appendix A – License Renewal</b>			
None			

Attachment 2  
to  
NL-19-077

**Summary of Revisions to the IP3 Technical Specification Bases**

ENTERGY NUCLEAR OPERATIONS, INC.  
Indian Point Nuclear Generating Unit No. 3  
Docket No. 50-286  
Renewed License No. DPR-64

### **Summary of Revisions to the IP3 Technical Specification Bases**

(Since last reported October 2, 2017)

AFFECTED SECTIONS	REV	EFFECTIVE DATE	DESCRIPTION
BASES UPDATE PACKAGE 55-02132018			
B 3.1.3	3	02/20/2018	Editorial correction on page B 3.1.3 - 7
B 3.3.1	5	02/20/2018	Editorial correction on pages B 3.3.1 - 55, - 57
B 3.3.2	7	02/20/2018	Editorial correction on page B 3.3.2 - 46
B 3.3.3	11	02/20/2018	Editorial correction on page B 3.3.3 - 13
B 3.3.4	2	02/20/2018	Editorial correction on page B 3.3.4 - 4
B 3.3.5	4	02/20/2018	Editorial correction on page B 3.3.5 - 6
B 3.4.1	3	02/20/2018	Editorial correction on page B 3.4.1 - 3
B 3.4.3	7	02/20/2018	Editorial correction on pages B 3.4.3 - 1 through - 7
B 3.4.12	9	02/20/2018	Editorial correction on pages B 3.4.12-1 through - 15
B 3.4.17	1	02/20/2018	Replace pages B 3.4.17 - 6 and - 7
B 3.6.6	6	02/20/2018	Editorial correction on page B 3.6.6 - 2
B 3.7.8	4	02/20/2018	Adds reference for EC 40623 on page B 3.7.8 - 7
Appendix C, B 3.1.2	1	02/20/2018	TS Amendment 264 Inter-Unit Transfer of Spent Fuel
BASES UPDATE PACKAGE 56-07312018			
B 3.3.3	12	07/31/2018	Editorial correction on page B 3.3.3 - 17 Editorial correction on page B 3.3.3 - 18
B 3.3.4	3	07/31/2018	Clarification addition on page B 3.3.4 - 5

### **Summary of Revisions to the IP3 Technical Specification Bases**

(Since last reported October 2, 2017)

AFFECTED SECTIONS	REV	EFFECTIVE DATE	DESCRIPTION
BASES UPDATE PACKAGE 57-10102018			
B 3.7.9	4	10/10/2018	Revise to address the increased frequency for header swaps.
BASES UPDATE PACKAGE 58-03082019			
B 3.8.1	9	03/08/2019	Revise to add the Open Phase Detection System
B.3.8.2	2	03/08/2019	Revise to add the Open Phase Detection System
BASES UPDATE PACKAGE 59-04152019			
B 3.4.1	4	04/15/2019	Revised to be consistent with the COLR specified values for TS 3.4.1 and guidance received from Westinghouse.
BASES UPDATE PACKAGE 60-08222019			
B 3.0	4	08/22/2019	Revised to implement TSTF 565

Attachment 3  
to  
NL-19-077

**Summary of Revisions to the IP3 Technical Requirements Manual (TRM)**

ENTERGY NUCLEAR OPERATIONS, INC.  
Indian Point Nuclear Generating Unit No. 3  
Docket No. 50-286  
Renewed License No. DPR-64

### **Summary of Revisions to the IP3 Technical Requirements Manual (TRM)**

(since last reported October 2, 2017)

<b>AFFECTED SECTIONS</b>	<b>NEW REV#</b>	<b>EFFECTIVE DATE</b>	<b>DESCRIPTION</b>
3.2.A	2	10/2/2017	Revised to make editorial changes to TRS 3.2.A.1 in order to correct text that was incorrectly made by Revision 1. On page 3.2.A-1, revised TRO 3.2.A "ration"; Required Action A.1, "Ccalculation"; Surveillance Requirements, inserted "TRS 3.2.A.2". On page 3.2.A-2, BASES, "value to consistent", "control <u>rods</u> is", "Ffrequency".
3.11	0	3/12/2018	Revised to add a new section (TRM 3.11) to the IP3 TRM for B.5.b mitigating strategies equipment. This change is in response to CR-IP2-2017-04349.
3.1.A 3.3.B 3.4.A 3.7.A.1 3.7.A.5 3.7.A.7 3.7.A.8 3.7.B 3.7.G 3.7.J 3.8.B 3.10.A 3.10.B 3.10.C 5.0	4 6 5 5 3 7 2 14 3 2 6 2 2 2 8	3/10/2018	Revised to correct the errors identified in CR-IP2-2017-00513 CA7 as well as errors identified at other times. These corrections are administrative in nature and are attributed to errors made during the implementation of previous TRM change packages.
3.7.A.6 3.7.B 3.8.C	3 15 5	7/28/2018	Revised to correct the editorial/clarification changes to the IP3 TRM surveillance requirements in response to CR-IP2-2018-01099 CAs 15 and 18. In addition the following discrepancy as reported in CR-IP2-2018-01099 CA-21 is also addressed in this package:  Section 3.7.A6 is listed as Rev 2 on the index when that section is at Rev 3 in the books."

### **Summary of Revisions to the IP3 Technical Requirements Manual (TRM)**

(since last reported October 2, 2017)

<b>AFFECTED SECTIONS</b>	<b>NEW REV#</b>	<b>EFFECTIVE DATE</b>	<b>DESCRIPTION</b>
3.7.A.5	4	10/30/2018	Revised TRO 3.7.A.5, Condition A, Required Action A.1.1 to change the requirement to "route" compensatory fire hoses to a requirement to "stage" OR "route" compensatory fire hoses.
5.0	9	11/5/2018	Revised to remove the requirement to provide annual exposure information to the NRC for each unit separately in the annual 10 CFR 20.2206 report of station radiation doses (CR-IP2-2018-03498).
3.7.B	16	8/15/2019	Revise TRO 3.7.B, to add new TRO 3.7.B.18 and corresponding TRS 3.7.B.21 through 3.7.B.23 and corresponding Basis information, to address functionality requirements and surveillance testing requirements for the Appendix R portable generators, fans, and support equipment. As documented by CR-IP3-2019-00571, while this equipment has historically been subject to control under procedure AP-64.1 and established surveillance test procedures, there is currently no defined allowable outage time for this equipment. This TRM change will establish the necessary allowable outage time, to help ensure restoration of any impaired equipment in a timely manner.
3.8.C	6	9/25/2019	This change addresses CAs 25, 26 and 27 of the CR-IP3-2018-00914 : "Update the TRM background for TRS 3.8.C.8 to change how IP3 is complying with "demonstrate that the ups static inverter, the ups battery charger, and the battery disconnect switch for the TSC UPS are functional"



Attachment 4  
to  
NL-19-077

IP3 Commitment Change Summary Report

ENTERGY NUCLEAR OPERATIONS, INC.  
Indian Point Nuclear Generating Unit No. 3  
Docket No. 50-286  
Renewed License No. DPR-64

### **IP3 COMMITMENT CHANGE SUMMARY REPORT**

(since last reported October 2, 2017)

<b>COMMITMENT NUMBER</b>	<b>CURRENT STATUS</b>	<b>CHANGED DATE</b>	<b>DESCRIPTION</b>
A-10290	Historic	10/2/18	<p><b>Original Commitment Description:</b></p> <p>ENTERGY IS MAKING A REGULATORY COMMITMENT TO PROVIDE OCCUPATIONAL EXPOSURE INFORMATION TO THE NRC ANNUALLY, IN ACCORDANCE WITH 10 CFR 20.2206, TO SUPPORT THE APPORTIONMENT OF STATION DOSES TO DIFFERENTIATE BETWEEN THE OPERATING AND SHUTDOWN UNITS. THE DATA WILL PROVIDE THE SUMMARY DISTRIBUTION OF ANNUAL WHOLE BODY DOSES AS PRESENTED IN APPENDIX B OF NUREG-0713 FOR OPERATING AND SHUTDOWN UNITS. THIS COMMITMENT TO PROVIDE OCCUPATIONAL EXPOSURE INFORMATION WILL BE INCLUDED IN THE TECHNICAL REQUIREMENTS MANUALS FOR IP2 AND IP3. DUE DATE IS 30 DAYS FOLLOWING NRC APPROVAL OF THE LICENSE AMENDMENT REQUEST.</p> <p><b>Revised Commitment Description:</b></p> <p>Same description, status change from Open to Historic – no longer required</p>

**FILE INDEX FOR ENCLOSURE 1 TO NL-19-077**

**INDIAN POINT ENERGY CENTER (IPEC)**  
**UNIT 3, Docket No. 50-286**

<b>File Naming Table</b>	
<b>Document Title</b>	<b>File Name</b>
<b>Multiple File Document - Indian Point 3 UFSAR, 2019 Rev. 08</b>	
Chapter 1, Introduction and Summary	001_1.1 Introduction & Summary.pdf
Chapter 1, Figures	001_1.2 Ch 1 Figures.pdf
Chapter 1, Drawings - REDACTED	001_1.3 Ch 1 Drawings.pdf
Chapter 2, Site and Environment	002_2.1 Site & Environment.pdf
Chapter 2, Figures	002_2.2 Ch 2 Figures.pdf
Chapter 2, Drawings	002_2.3 Ch 2 Drawings.pdf
Chapter 3, Reactor	003_3.1 Reactor.pdf
Chapter 3, Figures	003_3.2 Ch 3 Figures.pdf
Chapter 4, Reactor Coolant System	004_4.1 Reactor Coolant Sys.pdf
Chapter 4, Figures	004_4.2 Ch 4 Figures.pdf
Chapter 4, Drawings	004_4.3 Ch 4 Drawings.pdf
Chapter 5, Containment	005_5.1 Containment.pdf
Chapter 5, Figures	005_5.2 Ch 5 Figures.pdf
Chapter 5, Drawings - REDACTED	005_5.3 Ch 5 Drawings_REDACTED.pdf
Chapter 6, Engineered Safety Features	006_6.1 Engineered Safety Features.pdf
Chapter 6, Figures	006_6.2 Ch 6 Figures.pdf
Chapter 6, Drawings - REDACTED	006_6.3 Ch 6 Drawings_REDACTED.pdf
Chapter 7, Instrumentation and Control	007_7.1 Instrumentation & Control.pdf
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Chapter 7, Drawings - REDACTED	007_7.3 Ch 7 Drawings_REDACTED.pdf
Chapter 8, Electrical Systems	008_8.1 Electrical Systems.pdf
Chapter 8, Drawings	008_8.2 Ch 8 Drawings.pdf
Chapter 9, Auxiliary and Emergency Systems	009_9.1 Auxiliary & Emerg Sys.pdf
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**FILE INDEX FOR ENCLOSURE 1 TO NL-19-077**

**INDIAN POINT ENERGY CENTER (IPEC)**  
**UNIT 3, Docket No. 50-286**

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Chapter 10, Steam and Power Conversion System	010_10.1 Steam & Power Conv Sys.pdf
Chapter 10, Figures	010_10.2 Ch 10 Figures.pdf
Chapter 10, Drawings - REDACTED	010_10.3 Ch 10 Drawings_REDACTED.pdf
Chapter 11, Waste Disposal and Radiation Protection System	011_11.1 Waste Dis & Rad Prot Sys.pdf
Chapter 11, Figures	011_11.2 Ch 11 Figures.pdf
Chapter 11, Drawings - REDACTED	011_11.3 Ch 11 Drawings_REDACTED.pdf
Chapter 12, Conduct of Operations	012_12.1 Conduct of Operations.pdf
Chapter 12, Figures	012_12.2 Ch 12 Figures.pdf
Chapter 13, Initial Tests and Operations	013_13.1 Initial Tests & Oper.pdf
Chapter 13, Figures	013_13.2 Ch 13 Figures.pdf
Chapter 14, Safety Analysis	014_14.1 Safety Analysis.pdf
Chapter 14, Figures	014_14.2 Ch 14 Figures.pdf
Chapter 15, Technical Specifications	015_15.1 TS.pdf
Chapter 16, Design Criteria for Structures and Equipment	016_16.1 Design Criteria Struct & Equip.pdf
Chapter 16, Figures	016_16.2 Ch 16 Figures.pdf
Chapter 17, Quality Assurance Program	017_17.1 QA Program.pdf
Appendix A, License Renewal	018_18.1 App A, Lic Renewal.pdf
Table of Contents	019_19.1 TOC.pdf
Instructions	020_20.1 Instructions.pdf
<b>Single File Documents</b>	
Indian Point 3 Technical Requirements Manual (TRM)	001_IP3 TRM.pdf
Indian Point 3 Technical Specification Bases	002_IP3 Technical Specification Bases.pdf
HOLTEC International, "License Report on the Inter-Unit Transfer of Spent Nuclear Fuel at Indian Point Energy Center" [Rev. 10]	003_IP3 HOLTEC Report.pdf

**FILE INDEX FOR ENCLOSURE 2 TO NL-19-077**

**INDIAN POINT ENERGY CENTER (IPEC)**  
**UNIT 3, Docket No. 50-286**

<b>File Naming Table</b>	
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Chapter 1, Introduction and Summary	001_1.1 Introduction & Summary.pdf
Chapter 1, Figures	001_1.2 Ch 1 Figures.pdf
Chapter 1, Drawings – NON-REDACTED	001_1.3 Ch 1 Drawings_NON-REDACTED.pdf
Chapter 2, Site and Environment	002_2.1 Site & Environment.pdf
Chapter 2, Figures	002_2.2 Ch 2 Figures.pdf
Chapter 2, Drawings	002_2.3 Ch 2 Drawings.pdf
Chapter 3, Reactor	003_3.1 Reactor.pdf
Chapter 3, Figures	003_3.2 Ch 3 Figures.pdf
Chapter 4, Reactor Coolant System	004_4.1 Reactor Coolant Sys.pdf
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Chapter 6, Drawings – NON-REDACTED	006_6.3 Ch 6 Drawings_NON-REDACTED.pdf
Chapter 7, Instrumentation and Control	007_7.1 Instrumentation & Control.pdf
Chapter 7, Figures	007_7.2 Ch 7 Figures.pdf
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**INDIAN POINT ENERGY CENTER (IPEC)**  
**UNIT 3, Docket No. 50-286**

<b>Document Title</b>	<b>File Name</b>
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Chapter 10, Steam and Power Conversion System	010_10.1 Steam & Power Conv Sys.pdf
Chapter 10, Figures	010_10.2 Ch 10 Figures.pdf
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