



J. Ed Burchfield, Jr.
Vice President
Oconee Nuclear Station

Duke Energy
ON01VP | 7800 Rochester Hwy
Seneca, SC 29672

ONS 2018-026

o: 864.873.3478
f: 864.873.5791
Ed.Burchfield@duke-energy.com

~~Security-Related Information Withhold from public disclosure under 10 CFR 2.390~~

June 29, 2018

ATTN: Document Control Desk
U. S. Nuclear Regulatory Commission
11555 Rockville Pike
Rockville, MD 20852-2746

10 CFR 50.71(e)
10 CFR 50.59(d)
10 CFR 54.37(b)

Subject: Duke Energy Carolinas, LLC
Oconee Nuclear Station, Units 1, 2, and 3
Docket Numbers 50-269, 50-270, and 50-287
Updated Final Safety Analysis Report, Revision 27

Pursuant to 10 CFR 50.71(e), and in accordance with 10 CFR 50.4, Duke Energy Carolinas, LLC (Duke Energy) hereby submits the Oconee Nuclear Station Updated Final Safety Analysis Report (UFSAR), Revision 27. The effective date of the UFSAR revision is December 31, 2017, as indicated at the bottom of each page. Changes made in Revision 27 are indicated by side bars.

The Oconee UFSAR, Revision 27, is being provided in a non-redacted version (for NRC internal use) and a redacted version (for NRC public use). The two compact disks (CDs) enclosed are labelled accordingly. Duke Energy has marked the appropriate information in the redacted version as "Security-Related Information Withheld Under 10 CFR 2.390" using the criteria provided by the NRC in SECY-04-191. The contents are in Adobe Acrobat Portable Document Format (pdf).

As required by NRC guidance for electronic submissions, Attachment 1 provides a listing of the document components that comprise the enclosed CDs. Attachment 2 provides the List of Effective Pages (LOEP) for Tables and Figures. Attachment 3 provides insertion instructions for those receiving hardcopy distribution. Attachment 4 provides a listing of items removed in the 2017 UFSAR update. Attachment 5 provides the report of changes, tests, and experiments performed pursuant 10 CFR 50.59(d).

In addition, 10 CFR 54.37(b) requires that after the renewed license is issued, the UFSAR update must include any systems, structures, and components (SSCs) newly identified that would have been subject to an aging management review or evaluation of time-limited aging analysis in accordance with 10 CFR 54.21. The UFSAR update must describe how the effects of aging are managed such that the intended function(s) in 10 CFR 54.4(b) will be effectively maintained during the period of extended operation. A review was performed to determine

AD53
NRR

whether any newly-identified SSCs existed in support of submitting UFSAR Revision 27. As a result of this review, there are no newly identified SSCs for which aging management reviews or time-limited aging analyses would apply.

This submittal document contains no new or revised regulatory commitments. If you have any questions regarding the submittal, please contact Chris Wasik, Regulatory Affairs Manager, at (864) 873-5789.

I declare under penalty of perjury that the foregoing is true and correct. Executed on June 29, 2018.

Sincerely,



J. Ed Burchfield, Jr.
Vice President
Oconee Nuclear Station

Attachments:

1. Document Components on CD
2. List of Effective Pages (LOEP) for Tables and Figures
3. Update Insertion Instructions (for hardcopy distribution only)
4. List of Removed Items
5. 10 CFR 50.59 Summary Report

Enclosures:

1. CD containing Non-Redacted Version of Oconee Nuclear Station Updated Final Safety Analysis Report, 2017 Update - Rev 27
2. CD containing Redacted Version of Oconee Nuclear Station Updated Final Safety Analysis Report, 2017 Update - Rev 27

ONS 2018-026
Document Control Desk
June 29, 2018
Page 3

xc (with attachments):

Ms. Catherine Haney, Administrator, Region II (CD)
U.S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE, Suite 1200
Atlanta, GA 30303-1257

Ms. Audrey Klett, Project Manager (CD)
(by electronic mail only)
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Mail Stop O-8G9A
11555 Rockville Pike
Rockville, Maryland 20852

Mr. Eddy Crowe (hard copy)
NRC Senior Resident Inspector
Oconee Nuclear Station

ONS 2018-026
Document Control Desk
June 29, 2018

Attachment 1

Document Components on CD

Oconee Nuclear Station
Document Components on CD

	File Name	File Size (KB)
000	ONS UFSAR Title Page	40
001	ONS UFSAR Rev 27 Ch 01 TXT	265
002	ONS UFSAR Rev 27 Ch 01 Tables	120
003	ONS UFSAR Rev 27 Ch 01 Figures	3,963
004	ONS UFSAR Rev 27 Ch 02 TXT	804
005	ONS UFSAR Rev 27 Ch 02 Tables	4,190
006	ONS UFSAR Rev 27 Ch 02 Figures	6,601
007	ONS UFSAR Rev 27 Ch 03 TXT	1,977
008	ONS UFSAR Rev 27 Ch 03 Tables	1,643
009	ONS UFSAR Rev 27 Ch 03 Figures	5,874
010	ONS UFSAR Rev 27 Ch 04 TXT	817
011	ONS UFSAR Rev 27 Ch 04 Tables	943
012	ONS UFSAR Rev 27 Ch 04 Figures	1,093
013	ONS UFSAR Rev 27 Ch 05 TXT	849
014	ONS UFSAR Rev 27 Ch 05 Tables	1,292
015	ONS UFSAR Rev 27 Ch 05 Figures	3,941
016	ONS UFSAR Rev 27 Ch 06 TXT	733
017	ONS UFSAR Rev 27 Ch 06 Tables	1,902
018	ONS UFSAR Rev 27 Ch 06 Figures	4,951
019	ONS UFSAR Rev 27 Ch 07 TXT	1,308
020	ONS UFSAR Rev 27 Ch 07 Tables	271
021	ONS UFSAR Rev 27 Ch 07 Figures	8,392
022	ONS UFSAR Rev 27 Ch 08 TXT	445
023	ONS UFSAR Rev 27 Ch 08 Tables	337
024	ONS UFSAR Rev 27 Ch 08 Figures	1,439
025	ONS UFSAR Rev 27 Ch 09 TXT	1,241
026	ONS UFSAR Rev 27 Ch 09 Tables	1,075
027	ONS UFSAR Rev 27 Ch 09 Figures	7,084
028	ONS UFSAR Rev 27 Ch 10 TXT	483
029	ONS UFSAR Rev 27 Ch 10 Tables	100
030	ONS UFSAR Rev 27 Ch 10 Figures	8,006
031	ONS UFSAR Rev 27 Ch 11 TXT	630
032	ONS UFSAR Rev 27 Ch 11 Tables	469
033	ONS UFSAR Rev 27 Ch 11 Figures	239
034	ONS UFSAR Rev 27 Ch 12 TXT	337
035	ONS UFSAR Rev 27 Ch 12 Tables	211
036	ONS UFSAR Rev 27 Ch 13 TXT	489
037	ONS UFSAR Rev 27 Ch 13 Tables	77
038	ONS UFSAR Rev 27 Ch 13 Figures	362
039	ONS UFSAR Rev 27 Ch 14 TXT	353
040	ONS UFSAR Rev 27 Ch 14 Tables	133
041	ONS UFSAR Rev 27 Ch 15 TXT	1,497
042	ONS UFSAR Rev 27 Ch 15 Tables	2,148
043	ONS UFSAR Rev 27 Ch 15 Figures	5,666
044	ONS UFSAR Rev 27 Ch 16 TXT	84
045	ONS UFSAR Rev 27 Ch 17 TXT	78
046	ONS UFSAR Rev 27 Ch 18 TXT	671
047	ONS UFSAR Rev 27 Ch 18 Tables	79

ONS 2018-026
Document Control Desk
June 29, 2018

Attachment 2
List of Effective Pages

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Chapter 1	
1-i	31 DEC 2017
1-ii	31 DEC 2017
1-iii	31 DEC 2017
1.0-1	31 DEC 2017
1.0-2	31 DEC 2017
1.1-1	31 DEC 2017
1.1-2	31 DEC 2017
1.2-1	31 DEC 2017
1.2-2	31 DEC 2017
1.2-3	31 DEC 2017
1.2-4	31 DEC 2017
1.3-1	31 DEC 2017
1.3-2	31 DEC 2017
1.4-1	31 DEC 2017
1.4-2	31 DEC 2017
Chapter 1 Tables	
Table 1-1 (Page 1 of 2)	31 DEC 2000
Table 1-1 (Page 2 of 2)	31 DEC 2000
Table 1-2 (Page 1 of 1)	31 DEC 2000
Table 1-3 (Page 1 of 1)	31 DEC 2000
Chapter 1 Figures	
Figure 1-1 (Page 1 of 1)	31 DEC 2000
Figure 1-2 (Page 1 of 1)	31 DEC 2000
Figure 1-3 (Page 1 of 1)	31 DEC 2000
Figure 1-4 (Page 1 of 1)	31 DEC 2000
Figure 1-5 (Page 1 of 1)	31 DEC 2004
Figure 1-6 (Page 1 of 1)	31 DEC 2000
Figure 1-7 (Page 1 of 1)	31 DEC 2007
Figure 1-8 (Page 1 of 1)	31 DEC 2017
Figure 1-9 (Page 1 of 1)	31 DEC 2000
Chapter 2	
2-i	31 DEC 2017
2-ii	31 DEC 2017
2-iii	31 DEC 2017
2-iv	31 DEC 2017
2-v	31 DEC 2017
2-vi	31 DEC 2017
2-vii	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
2-viii	31 DEC 2017
2-ix	31 DEC 2017
2-x	31 DEC 2017
2-xi	31 DEC 2017
2-xii	31 DEC 2017
2.0-1	31 DEC 2017
2.0-2	31 DEC 2017
2.1-1	31 DEC 2017
2.1-2	31 DEC 2017
2.1-3	31 DEC 2017
2.1-4	31 DEC 2017
2.2-1	31 DEC 2017
2.2-2	31 DEC 2017
2.3-1	31 DEC 2017
2.3-2	31 DEC 2017
2.3-3	31 DEC 2017
2.3-4	31 DEC 2017
2.3-5	31 DEC 2017
2.3-6	31 DEC 2017
2.3-7	31 DEC 2017
2.3-8	31 DEC 2017
2.3-9	31 DEC 2017
2.3-10	31 DEC 2017
2.3-11	31 DEC 2017
2.3-12	31 DEC 2017
2.3-13	31 DEC 2017
2.3-14	31 DEC 2017
2.3-15	31 DEC 2017
2.3-16	31 DEC 2017
2.3-17	31 DEC 2017
2.3-18	31 DEC 2017
2.3-19	31 DEC 2017
2.3-20	31 DEC 2017
2.3-21	31 DEC 2017
2.3-22	31 DEC 2017
2.3-23	31 DEC 2017
2.3-24	31 DEC 2017
2.4-1	31 DEC 2017
2.4-2	31 DEC 2017
2.4-3	31 DEC 2017
2.4-4	31 DEC 2017
2.4-5	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
2.4-6	31 DEC 2017
2.4-7	31 DEC 2017
2.4-8	31 DEC 2017
2.4-9	31 DEC 2017
2.4-10	31 DEC 2017
2.5-1	31 DEC 2017
2.5-2	31 DEC 2017
2.5-3	31 DEC 2017
2.5-4	31 DEC 2017
2.5-5	31 DEC 2017
2.5-6	31 DEC 2017
2.5-7	31 DEC 2017
2.5-8	31 DEC 2017
2.5-9	31 DEC 2017
2.5-10	31 DEC 2017
2.5-11	31 DEC 2017
2.5-12	31 DEC 2017
2.5-13	31 DEC 2017
2.5-14	31 DEC 2017
2.5-15	31 DEC 2017
2.5-16	31 DEC 2017
2.5-17	31 DEC 2017
2.5-18	31 DEC 2017
Chapter 2 Tables	
Table 2-1 (Page 1 of 1)	31 DEC 2000
Table 2-2 (Page 1 of 1)	31 DEC 2000
Table 2-3 (Page 1 of 1)	31 DEC 2000
Table 2-4 (Page 1 of 1)	31 DEC 2000
Table 2-5 (Page 1 of 1)	31 DEC 2000
Table 2-6 (Page 1 of 1)	31 DEC 2000
Table 2-7 (Page 1 of 1)	31 DEC 2008
Table 2-8 (Page 1 of 1)	31 DEC 2008
Table 2-9 (Page 1 of 1)	31 DEC 2008
Table 2-10 (Page 1 of 1)	31 DEC 2008
Table 2-11 (Page 1 of 1)	31 DEC 2008
Table 2-12 (Page 1 of 1)	31 DEC 2008
Table 2-13 (Page 1 of 1)	31 DEC 2008
Table 2-14 (Page 1 of 1)	31 DEC 2008
Table 2-15 (Page 1 of 1)	31 DEC 2008
Table 2-16 (Page 1 of 1)	31 DEC 2008
Table 2-17 (Page 1 of 1)	31 DEC 2008

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 2-18 (Page 1 of 1)	31 DEC 2008
Table 2-19 (Page 1 of 1)	31 DEC 2008
Table 2-20 (Page 1 of 1)	31 DEC 2008
Table 2-21 (Page 1 of 1)	31 DEC 2008
Table 2-22 (Page 1 of 1)	31 DEC 2008
Table 2-23 (Page 1 of 1)	31 DEC 2008
Table 2-24 (Page 1 of 8)	31 DEC 2008
Table 2-24 (Page 2 of 8)	31 DEC 2008
Table 2-24 (Page 3 of 8)	31 DEC 2008
Table 2-24 (Page 4 of 8)	31 DEC 2008
Table 2-24 (Page 5 of 8)	31 DEC 2008
Table 2-24 (Page 6 of 8)	31 DEC 2008
Table 2-24 (Page 7 of 8)	31 DEC 2008
Table 2-24 (Page 8 of 8)	31 DEC 2008
Table 2-25 (Page 1 of 8)	31 DEC 2008
Table 2-25 (Page 2 of 8)	31 DEC 2008
Table 2-25 (Page 3 of 8)	31 DEC 2008
Table 2-25 (Page 4 of 8)	31 DEC 2008
Table 2-25 (Page 5 of 8)	31 DEC 2008
Table 2-25 (Page 6 of 8)	31 DEC 2008
Table 2-25 (Page 7 of 8)	31 DEC 2008
Table 2-25 (Page 8 of 8)	31 DEC 2008
Table 2-26 (Page 1 of 6)	31 DEC 2008
Table 2-26 (Page 2 of 6)	31 DEC 2008
Table 2-26 (Page 3 of 6)	31 DEC 2008
Table 2-26 (Page 4 of 6)	31 DEC 2008
Table 2-26 (Page 5 of 6)	31 DEC 2008
Table 2-26 (Page 6 of 6)	31 DEC 2008
Table 2-27 (Page 1 of 14)	31 DEC 2008
Table 2-27 (Page 2 of 14)	31 DEC 2008
Table 2-27 (Page 3 of 14)	31 DEC 2008
Table 2-27 (Page 4 of 14)	31 DEC 2008
Table 2-27 (Page 5 of 14)	31 DEC 2008
Table 2-27 (Page 6 of 14)	31 DEC 2008
Table 2-27 (Page 7 of 14)	31 DEC 2008
Table 2-27 (Page 8 of 14)	31 DEC 2008
Table 2-27 (Page 9 of 14)	31 DEC 2008
Table 2-27 (Page 10 of 14)	31 DEC 2008
Table 2-27 (Page 11 of 14)	31 DEC 2008
Table 2-27 (Page 12 of 14)	31 DEC 2008
Table 2-27 (Page 13 of 14)	31 DEC 2008
Table 2-27 (Page 14 of 14)	31 DEC 2008

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 2-28 (Page 1 of 1)	31 DEC 2008
Table 2-29 (Page 1 of 1)	31 DEC 2008
Table 2-30 (Page 1 of 2)	31 DEC 2008
Table 2-30 (Page 2 of 2)	31 DEC 2008
Table 2-31 (Page 1 of 2)	31 DEC 2008
Table 2-31 (Page 2 of 2)	31 DEC 2008
Table 2-32 (Page 1 of 1)	31 DEC 2008
Table 2-33 (Page 1 of 2)	31 DEC 2008
Table 2-33 (Page 2 of 2)	31 DEC 2008
Table 2-34 (Page 1 of 1)	31 DEC 2008
Table 2-35 (Page 1 of 1)	31 DEC 2008
Table 2-36 (Page 1 of 1)	31 DEC 2008
Table 2-37 (Page 1 of 2)	31 DEC 2008
Table 2-37 (Page 2 of 2)	31 DEC 2008
Table 2-38 (Page 1 of 1)	31 DEC 2008
Table 2-39 (Page 1 of 4)	31 DEC 2008
Table 2-39 (Page 2 of 4)	31 DEC 2008
Table 2-39 (Page 3 of 4)	31 DEC 2008
Table 2-39 (Page 4 of 4)	31 DEC 2008
Table 2-40 - 2-43 (Page 1 of 1)	31 DEC 2008
Table 2-44 (Page 1 of 1)	31 DEC 2008
Table 2-45 - 2-92 (Page 1 of 3)	31 DEC 2008
Table 2-45 - 2-92 (Page 2 of 3)	31 DEC 2008
Table 2-45 - 2-92 (Page 3 of 3)	31 DEC 2008
Table 2-93 (Page 1 of 1)	31 DEC 2000
Table 2-94 (Page 1 of 6)	31 DEC 2000
Table 2-94 (Page 2 of 6)	31 DEC 2000
Table 2-94 (Page 3 of 6)	31 DEC 2000
Table 2-94 (Page 4 of 6)	31 DEC 2000
Table 2-94 (Page 5 of 6)	31 DEC 2000
Table 2-94 (Page 6 of 6)	31 DEC 2000
Table 2-95 (Page 1 of 1)	31 DEC 2000
Table 2-96 (Page 1 of 1)	31 DEC 2000
Chapter 2 Figures	
Figure 2-1 (Page 1 of 1)	31 DEC 2000
Figure 2-2 (Page 1 of 1)	31 DEC 2000
Figure 2-3 (Page 1 of 1)	31 DEC 2000
Figure 2-4 (Page 1 of 1)	31 DEC 2000
Figure 2-5 (Page 1 of 1)	31 DEC 2011
Figure 2-6 (Page 1 of 1)	31 DEC 2000
Figure 2-7 (Page 1 of 1)	31 DEC 2008

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 2-8 (Page 1 of 1)	31 DEC 2008
Figure 2-9 (Page 1 of 1)	31 DEC 2008
Figure 2-10 (Page 1 of 1)	31 DEC 2008
Figure 2-11 (Page 1 of 2)	31 DEC 2008
Figure 2-11 (Page 2 of 2)	31 DEC 2008
Figure 2-12 (Page 1 of 2)	31 DEC 2008
Figure 2-12 (Page 2 of 2)	31 DEC 2008
Figure 2-13 (Page 1 of 1)	31 DEC 2008
Figure 2-14 (Page 1 of 1)	31 DEC 2008
Figure 2-15 (Page 1 of 1)	31 DEC 2008
Figure 2-16 (Page 1 of 1)	31 DEC 2008
Figure 2-17 (Page 1 of 1)	31 DEC 2008
Figure 2-18 (Page 1 of 1)	31 DEC 2008
Figure 2-19 (Page 1 of 1)	31 DEC 2008
Figure 2-20 (Page 1 of 1)	31 DEC 2008
Figure 2-21 (Page 1 of 1)	31 DEC 2008
Figure 2-22 (Page 1 of 1)	31 DEC 2008
Figure 2-23 (Page 1 of 1)	31 DEC 2008
Figure 2-24 (Page 1 of 1)	31 DEC 2008
Figure 2-25 (Page 1 of 1)	31 DEC 2008
Figure 2-26 (Page 1 of 1)	31 DEC 2008
Figure 2-27 (Page 1 of 1)	31 DEC 2008
Figure 2-28 (Page 1 of 1)	31 DEC 2008
Figure 2-29 (Page 1 of 1)	31 DEC 2008
Figure 2-30 (Page 1 of 1)	31 DEC 2008
Figure 2-31 (Page 1 of 1)	31 DEC 2008
Figure 2-32 (Page 1 of 1)	31 DEC 2008
Figure 2-33 (Page 1 of 1)	31 DEC 2008
Figure 2-34 (Page 1 of 1)	31 DEC 2008
Figure 2-35 - 2-36 (Page 1 of 1)	31 DEC 2008
Figure 2-37 (Page 1 of 1)	31 DEC 2008
Figure 2-38 (Page 1 of 1)	31 DEC 2008
Figure 2-39 (Page 1 of 1)	31 DEC 2000
Figure 2-40 (Page 1 of 1)	31 DEC 2000
Figure 2-41 (Page 1 of 1)	31 DEC 2000
Figure 2-42 (Page 1 of 1)	31 DEC 2000
Figure 2-43 (Page 1 of 1)	31 DEC 2000
Figure 2-44 (Page 1 of 1)	31 DEC 2000
Figure 2-45 (Page 1 of 1)	31 DEC 2000
Figure 2-46 (Page 1 of 1)	31 DEC 2000
Figure 2-47 (Page 1 of 1)	31 DEC 2000
Figure 2-48 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 2-49 (Page 1 of 1)	31 DEC 2000
Figure 2-50 (Page 1 of 1)	31 DEC 2000
Figure 2-51 (Page 1 of 1)	31 DEC 2000
Figure 2-52 (Page 1 of 1)	31 DEC 2000
Figure 2-53 (Page 1 of 1)	31 DEC 2000
Figure 2-54 (Page 1 of 1)	31 DEC 2000
Figure 2-55 (Page 1 of 1)	31 DEC 2000
Figure 2-56 (Page 1 of 1)	31 DEC 2000
Figure 2-57 (Page 1 of 1)	31 DEC 2000
Figure 2-58 (Page 1 of 1)	31 DEC 2000
Figure 2-59 (Page 1 of 1)	31 DEC 2000
Figure 2-60 (Page 1 of 1)	31 DEC 2000
Figure 2-61 (Page 1 of 1)	31 DEC 2000
Figure 2-62 (Page 1 of 1)	31 DEC 2000
Figure 2-63 (Page 1 of 1)	31 DEC 2000
Figure 2-64 (Page 1 of 1)	31 DEC 2000
Figure 2-65 (Page 1 of 1)	31 DEC 2000
Figure 2-66 (Page 1 of 1)	31 DEC 2000
Figure 2-67 (Page 1 of 1)	31 DEC 2000
Figure 2-68 (Page 1 of 1)	31 DEC 2000
Figure 2-69 (Page 1 of 1)	31 DEC 2000
Figure 2-70 (Page 1 of 1)	31 DEC 2000
Figure 2-71 (Page 1 of 1)	31 DEC 2000
Figure 2-72 (Page 1 of 1)	31 DEC 2000
Figure 2-73 (Page 1 of 1)	31 DEC 2000
Figure 2-74 (Page 1 of 1)	31 DEC 2000
Figure 2-75 (Page 1 of 1)	31 DEC 2000
Figure 2-76 (Page 1 of 1)	31 DEC 2000
Figure 2-77 (Page 1 of 1)	31 DEC 2000
Figure 2-78 (Page 1 of 1)	31 DEC 2000
Figure 2-79 (Page 1 of 1)	31 DEC 2000
Figure 2-80 (Page 1 of 1)	31 DEC 2000
Figure 2-81 (Page 1 of 1)	31 DEC 2000
Figure 2-82 (Page 1 of 1)	31 DEC 2000
Figure 2-83 (Page 1 of 1)	31 DEC 2000
Figure 2-84 (Page 1 of 1)	31 DEC 2000
Figure 2-85 (Page 1 of 1)	31 DEC 2000
Figure 2-86 (Page 1 of 1)	31 DEC 2000
Figure 2-87 (Page 1 of 1)	31 DEC 2000
Figure 2-88 (Page 1 of 1)	31 DEC 2000
Figure 2-89 (Page 1 of 1)	31 DEC 2000
Figure 2-90 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 2-91 (Page 1 of 1)	31 DEC 2000
Figure 2-92 (Page 1 of 1)	31 DEC 2000
Figure 2-93 (Page 1 of 1)	31 DEC 2000
Figure 2-94 (Page 1 of 1)	31 DEC 2000
Figure 2-95 (Page 1 of 1)	31 DEC 2000
Figure 2-96 (Page 1 of 1)	31 DEC 2000
Figure 2-97 (Page 1 of 1)	31 DEC 2000
Figure 2-98 (Page 1 of 1)	31 DEC 2000
Figure 2-99 (Page 1 of 1)	31 DEC 2000
Figure 2-100 (Page 1 of 1)	31 DEC 2000
Figure 2-101 (Page 1 of 1)	31 DEC 2000
Figure 2-102 (Page 1 of 1)	31 DEC 2000
Figure 2-103 (Page 1 of 1)	31 DEC 2000
Figure 2-104 (Page 1 of 1)	31 DEC 2000
Figure 2-105 (Page 1 of 1)	31 DEC 2000
Figure 2-106 (Page 1 of 1)	31 DEC 2000
Figure 2-107 (Page 1 of 1)	31 DEC 2000
Figure 2-108 (Page 1 of 1)	31 DEC 2000
Figure 2-109 (Page 1 of 1)	31 DEC 2000
Figure 2-110 (Page 1 of 1)	31 DEC 2000
Figure 2-111 (Page 1 of 1)	31 DEC 2000
Figure 2-112 (Page 1 of 1)	31 DEC 2000
Figure 2-113 (Page 1 of 1)	31 DEC 2000
Figure 2-114 (Page 1 of 1)	31 DEC 2000
Figure 2-115 (Page 1 of 1)	31 DEC 2000
Figure 2-116 (Page 1 of 1)	31 DEC 2000
Figure 2-117 (Page 1 of 1)	31 DEC 2000
Figure 2-118 (Page 1 of 1)	31 DEC 2000
Chapter 3	
3-i	31 DEC 2017
3-ii	31 DEC 2017
3-iii	31 DEC 2017
3-iv	31 DEC 2017
3-v	31 DEC 2017
3-vi	31 DEC 2017
3-vii	31 DEC 2017
3-viii	31 DEC 2017
3-ix	31 DEC 2017
3-x	31 DEC 2017
3-xi	31 DEC 2017
3-xii	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
3.0-1	31 DEC 2017
3.0-2	31 DEC 2017
3.1-1	31 DEC 2017
3.1-2	31 DEC 2017
3.1-3	31 DEC 2017
3.1-4	31 DEC 2017
3.1-5	31 DEC 2017
3.1-6	31 DEC 2017
3.1-7	31 DEC 2017
3.1-8	31 DEC 2017
3.1-9	31 DEC 2017
3.1-10	31 DEC 2017
3.1-11	31 DEC 2017
3.1-12	31 DEC 2017
3.1-13	31 DEC 2017
3.1-14	31 DEC 2017
3.1-15	31 DEC 2017
3.1-16	31 DEC 2017
3.1-17	31 DEC 2017
3.1-18	31 DEC 2017
3.1-19	31 DEC 2017
3.1-20	31 DEC 2017
3.1-21	31 DEC 2017
3.1-22	31 DEC 2017
3.1-23	31 DEC 2017
3.1-24	31 DEC 2017
3.1-25	31 DEC 2017
3.1-26	31 DEC 2017
3.1-27	31 DEC 2017
3.1-28	31 DEC 2017
3.1-29	31 DEC 2017
3.1-30	31 DEC 2017
3.1-31	31 DEC 2017
3.1-32	31 DEC 2017
3.1-33	31 DEC 2017
3.1-34	31 DEC 2017
3.2-1	31 DEC 2017
3.2-2	31 DEC 2017
3.2-3	31 DEC 2017
3.2-4	31 DEC 2017
3.2-5	31 DEC 2017
3.2-6	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
3.2-7	31 DEC 2017
3.2-8	31 DEC 2017
3.3-1	31 DEC 2017
3.3-2	31 DEC 2017
3.4-1	31 DEC 2017
3.4-2	31 DEC 2017
3.4-3	31 DEC 2017
3.4-4	31 DEC 2017
3.5-1	31 DEC 2017
3.5-2	31 DEC 2017
3.5-3	31 DEC 2017
3.5-4	31 DEC 2017
3.5-5	31 DEC 2017
3.5-6	31 DEC 2017
3.5-7	31 DEC 2017
3.5-8	31 DEC 2017
3.6-1	31 DEC 2017
3.6-2	31 DEC 2017
3.7-1	31 DEC 2017
3.7-2	31 DEC 2017
3.7-3	31 DEC 2017
3.7-4	31 DEC 2017
3.7-5	31 DEC 2017
3.7-6	31 DEC 2017
3.7-7	31 DEC 2017
3.7-8	31 DEC 2017
3.7-9	31 DEC 2017
3.7-10	31 DEC 2017
3.7-11	31 DEC 2017
3.7-12	31 DEC 2017
3.7-13	31 DEC 2017
3.7-14	31 DEC 2017
3.7-15	31 DEC 2017
3.7-16	31 DEC 2017
3.8-1	31 DEC 2017
3.8-2	31 DEC 2017
3.8-3	31 DEC 2017
3.8-4	31 DEC 2017
3.8-5	31 DEC 2017
3.8-6	31 DEC 2017
3.8-7	31 DEC 2017
3.8-8	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
3.8-9	31 DEC 2017
3.8-10	31 DEC 2017
3.8-11	31 DEC 2017
3.8-12	31 DEC 2017
3.8-13	31 DEC 2017
3.8-14	31 DEC 2017
3.8-15	31 DEC 2017
3.8-16	31 DEC 2017
3.8-17	31 DEC 2017
3.8-18	31 DEC 2017
3.8-19	31 DEC 2017
3.8-20	31 DEC 2017
3.8-21	31 DEC 2017
3.8-22	31 DEC 2017
3.8-23	31 DEC 2017
3.8-24	31 DEC 2017
3.8-25	31 DEC 2017
3.8-26	31 DEC 2017
3.8-27	31 DEC 2017
3.8-28	31 DEC 2017
3.8-29	31 DEC 2017
3.8-30	31 DEC 2017
3.8-31	31 DEC 2017
3.8-32	31 DEC 2017
3.8-33	31 DEC 2017
3.8-34	31 DEC 2017
3.8-35	31 DEC 2017
3.8-36	31 DEC 2017
3.8-37	31 DEC 2017
3.8-38	31 DEC 2017
3.8-39	31 DEC 2017
3.8-40	31 DEC 2017
3.8-41	31 DEC 2017
3.8-42	31 DEC 2017
3.8-43	31 DEC 2017
3.8-44	31 DEC 2017
3.8-45	31 DEC 2017
3.8-46	31 DEC 2017
3.8-47	31 DEC 2017
3.8-48	31 DEC 2017
3.8-49	31 DEC 2017
3.8-50	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
3.8-51	31 DEC 2017
3.8-52	31 DEC 2017
3.8-53	31 DEC 2017
3.8-54	31 DEC 2017
3.8-55	31 DEC 2017
3.8-56	31 DEC 2017
3.8-57	31 DEC 2017
3.8-58	31 DEC 2017
3.8-59	31 DEC 2017
3.8-60	31 DEC 2017
3.8-61	31 DEC 2017
3.8-62	31 DEC 2017
3.8-63	31 DEC 2017
3.8-64	31 DEC 2017
3.8-65	31 DEC 2017
3.8-66	31 DEC 2017
3.8-67	31 DEC 2017
3.8-68	31 DEC 2017
3.8-69	31 DEC 2017
3.8-70	31 DEC 2017
3.8-71	31 DEC 2017
3.8-72	31 DEC 2017
3.8-73	31 DEC 2017
3.8-74	31 DEC 2017
3.8-75	31 DEC 2017
3.8-76	31 DEC 2017
3.9-1	31 DEC 2017
3.9-2	31 DEC 2017
3.9-3	31 DEC 2017
3.9-4	31 DEC 2017
3.9-5	31 DEC 2017
3.9-6	31 DEC 2017
3.9-7	31 DEC 2017
3.9-8	31 DEC 2017
3.9-9	31 DEC 2017
3.9-10	31 DEC 2017
3.9-11	31 DEC 2017
3.9-12	31 DEC 2017
3.9-13	31 DEC 2017
3.9-14	31 DEC 2017
3.9-15	31 DEC 2017
3.9-16	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
3.9-17	31 DEC 2017
3.9-18	31 DEC 2017
3.9-19	31 DEC 2017
3.9-20	31 DEC 2017
3.9-21	31 DEC 2017
3.9-22	31 DEC 2017
3.9-23	31 DEC 2017
3.9-24	31 DEC 2017
3.9-25	31 DEC 2017
3.9-26	31 DEC 2017
3.9-27	31 DEC 2017
3.9-28	31 DEC 2017
3.10-1	31 DEC 2017
3.10-2	31 DEC 2017
3.11-1	31 DEC 2017
3.11-2	31 DEC 2017
3.12-1	31 DEC 2017
3.12-2	31 DEC 2017
3.13-1	31 DEC 2017
3.13-2	31 DEC 2017
Chapter 3 Tables	
Table 3-1 (Page 1 of 1)	31 DEC 2004
Table 3-2 (Page 1 of 6)	31 DEC 2014
Table 3-2 (Page 2 of 6)	31 DEC 2014
Table 3-2 (Page 3 of 6)	31 DEC 2014
Table 3-2 (Page 4 of 6)	31 DEC 2014
Table 3-2 (Page 5 of 6)	31 DEC 2014
Table 3-2 (Page 6 of 6)	31 DEC 2014
Table 3-3 (Page 1 of 1)	31 DEC 2004
Table 3-4 (Page 1 of 1)	31 DEC 2000
Table 3-5 (Page 1 of 1)	31 DEC 2014
Table 3-6 (Page 1 of 2)	31 DEC 2003
Table 3-6 (Page 2 of 2)	31 DEC 2003
Table 3-7 (Page 1 of 1)	31 DEC 2000
Table 3-8 (Page 1 of 1)	31 DEC 2000
Table 3-9 (Page 1 of 2)	31 DEC 2000
Table 3-9 (Page 2 of 2)	31 DEC 2000
Table 3-10 (Page 1 of 1)	31 DEC 2000
Table 3-11 (Page 1 of 1)	31 DEC 2000
Table 3-12 (Page 1 of 5)	31 DEC 2000
Table 3-12 (Page 2 of 5)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 3-12 (Page 3 of 5)	31 DEC 2000
Table 3-12 (Page 4 of 5)	31 DEC 2000
Table 3-12 (Page 5 of 5)	31 DEC 2000
Table 3-13 (Page 1 of 1)	31 DEC 2000
Table 3-14 (Page 1 of 2)	31 DEC 2000
Table 3-14 (Page 2 of 2)	31 DEC 2000
Table 3-15 (Page 1 of 1)	31 DEC 2000
Table 3-16 (Page 1 of 1)	31 DEC 2003
Table 3-17 (Page 1 of 1)	31 DEC 2000
Table 3-18 (Page 1 of 1)	31 DEC 2003
Table 3-19 (Page 1 of 1)	31 DEC 2003
Table 3-20 (Page 1 of 1)	31 DEC 2003
Table 3-21 (Page 1 of 1)	31 DEC 2003
Table 3-22 (Page 1 of 1)	31 DEC 2000
Table 3-23 (Page 1 of 1)	31 DEC 2009
Table 3-24 (Page 1 of 1)	31 DEC 2000
Table 3-25 (Page 1 of 1)	31 DEC 2000
Table 3-26 (Page 1 of 1)	31 DEC 2000
Table 3-27 - 3-67 (Page 1 of 3)	31 DEC 2000
Table 3-27 - 3-67 (Page 2 of 3)	31 DEC 2000
Table 3-27 - 3-67 (Page 3 of 3)	31 DEC 2000
Table 3-68 (Page 1 of 8)	31 DEC 2017
Table 3-68 (Page 2 of 8)	31 DEC 2017
Table 3-68 (Page 3 of 8)	31 DEC 2017
Table 3-68 (Page 4 of 8)	31 DEC 2017
Table 3-68 (Page 5 of 8)	31 DEC 2017
Table 3-68 (Page 6 of 8)	31 DEC 2017
Table 3-68 (Page 7 of 8)	31 DEC 2017
Table 3-68 (Page 8 of 8)	31 DEC 2017
Chapter 3 Figures	
Figure 3-1 (Page 1 of 1)	31 DEC 2000
Figure 3-2 (Page 1 of 1)	31 DEC 2000
Figure 3-3 (Page 1 of 1)	31 DEC 2000
Figure 3-4 (Page 1 of 1)	31 DEC 2000
Figure 3-5 (Page 1 of 1)	31 DEC 2000
Figure 3-6 (Page 1 of 1)	31 DEC 2000
Figure 3-7 (Page 1 of 1)	31 DEC 2000
Figure 3-8 (Page 1 of 1)	31 DEC 2000
Figure 3-9 (Page 1 of 1)	31 DEC 2006
Figure 3-10 (Page 1 of 1)	31 DEC 2006
Figure 3-11 (Page 1 of 1)	31 DEC 2006

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 3-12 (Page 1 of 1)	31 DEC 2006
Figure 3-13 (Page 1 of 1)	31 DEC 2006
Figure 3-14 (Page 1 of 1)	31 DEC 2006
Figure 3-15 (Page 1 of 1)	31 DEC 2006
Figure 3-16 (Page 1 of 1)	31 DEC 2000
Figure 3-17 (Page 1 of 1)	31 DEC 2000
Figure 3-18 (Page 1 of 1)	31 DEC 2000
Figure 3-19 (Page 1 of 3)	31 DEC 2000
Figure 3-19 (Page 2 of 3)	31 DEC 2000
Figure 3-19 (Page 3 of 3)	31 DEC 2000
Figure 3-20 (Page 1 of 1)	31 DEC 2011
Figure 3-21 (Page 1 of 1)	31 DEC 2000
Figure 3-22 (Page 1 of 1)	31 DEC 2000
Figure 3-23 (Page 1 of 1)	31 DEC 2000
Figure 3-24 (Page 1 of 1)	31 DEC 2000
Figure 3-25 (Page 1 of 4)	31 DEC 2000
Figure 3-25 (Page 2 of 4)	31 DEC 2000
Figure 3-25 (Page 3 of 4)	31 DEC 2000
Figure 3-25 (Page 4 of 4)	31 DEC 2000
Figure 3-26 (Page 1 of 6)	31 DEC 2000
Figure 3-26 (Page 2 of 6)	31 DEC 2000
Figure 3-26 (Page 3 of 6)	31 DEC 2000
Figure 3-26 (Page 4 of 6)	31 DEC 2000
Figure 3-26 (Page 5 of 6)	31 DEC 2000
Figure 3-26 (Page 6 of 6)	31 DEC 2000
Figure 3-27 (Page 1 of 1)	31 DEC 2000
Figure 3-28 (Page 1 of 2)	31 DEC 2000
Figure 3-28 (Page 2 of 2)	31 DEC 2000
Figure 3-29 (Page 1 of 1)	31 DEC 2000
Figure 3-30 (Page 1 of 1)	31 DEC 2000
Figure 3-31 (Page 1 of 1)	31 DEC 2000
Figure 3-32 (Page 1 of 1)	31 DEC 2000
Figure 3-33 (Page 1 of 1)	31 DEC 2000
Figure 3-34 (Page 1 of 1)	31 DEC 2000
Figure 3-35 (Page 1 of 1)	31 DEC 2000
Figure 3-36 (Page 1 of 1)	31 DEC 2000
Figure 3-37 (Page 1 of 4)	31 DEC 2000
Figure 3-37 (Page 2 of 4)	31 DEC 2000
Figure 3-37 (Page 3 of 4)	31 DEC 2000
Figure 3-37 (Page 4 of 4)	31 DEC 2000
Figure 3-38 (Page 1 of 1)	31 DEC 2000
Figure 3-39 - 3-51 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 3-52 (Page 1 of 1)	31 DEC 2003
Figure 3-53 - 3-56 (Page 1 of 1)	31 DEC 2003
Figure 3-57 (Page 1 of 1)	31 DEC 2000
Figure 3-58 (Page 1 of 1)	31 DEC 2000
Figure 3-59 (Page 1 of 1)	31 DEC 2000
Figure 3-60 (Page 1 of 1)	31 DEC 2000
Chapter 4	
4-i	31 DEC 2017
4-ii	31 DEC 2017
4-iii	31 DEC 2017
4-iv	31 DEC 2017
4-v	31 DEC 2017
4-vi	31 DEC 2017
4-vii	31 DEC 2017
4.0-1	31 DEC 2017
4.0-2	31 DEC 2017
4.1-1	31 DEC 2017
4.1-2	31 DEC 2017
4.2-1	31 DEC 2017
4.2-2	31 DEC 2017
4.2-3	31 DEC 2017
4.2-4	31 DEC 2017
4.2-5	31 DEC 2017
4.2-6	31 DEC 2017
4.2-7	31 DEC 2017
4.2-8	31 DEC 2017
4.2-9	31 DEC 2017
4.2-10	31 DEC 2017
4.2-11	31 DEC 2017
4.2-12	31 DEC 2017
4.2-13	31 DEC 2017
4.2-14	31 DEC 2017
4.3-1	31 DEC 2017
4.3-2	31 DEC 2017
4.3-3	31 DEC 2017
4.3-4	31 DEC 2017
4.3-5	31 DEC 2017
4.3-6	31 DEC 2017
4.3-7	31 DEC 2017
4.3-8	31 DEC 2017
4.3-9	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
4.3-10	31 DEC 2017
4.3-11	31 DEC 2017
4.3-12	31 DEC 2017
4.3-13	31 DEC 2017
4.3-14	31 DEC 2017
4.3-15	31 DEC 2017
4.3-16	31 DEC 2017
4.3-17	31 DEC 2017
4.3-18	31 DEC 2017
4.3-19	31 DEC 2017
4.3-20	31 DEC 2017
4.3-21	31 DEC 2017
4.3-22	31 DEC 2017
4.4-1	31 DEC 2017
4.4-2	31 DEC 2017
4.4-3	31 DEC 2017
4.4-4	31 DEC 2017
4.4-5	31 DEC 2017
4.4-6	31 DEC 2017
4.4-7	31 DEC 2017
4.4-8	31 DEC 2017
4.5-1	31 DEC 2017
4.5-2	31 DEC 2017
4.5-3	31 DEC 2017
4.5-4	31 DEC 2017
4.5-5	31 DEC 2017
4.5-6	31 DEC 2017
4.5-7	31 DEC 2017
4.5-8	31 DEC 2017
4.5-9	31 DEC 2017
4.5-10	31 DEC 2017
4.5-11	31 DEC 2017
4.5-12	31 DEC 2017
4.5-13	31 DEC 2017
4.5-14	31 DEC 2017
4.5-15	31 DEC 2017
4.5-16	31 DEC 2017
4.5-17	31 DEC 2017
4.5-18	31 DEC 2017
4.5-19	31 DEC 2017
4.5-20	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Chapter 4 Tables	
Table 4-1 (Page 1 of 5)	31 DEC 2009
Table 4-1 (Page 2 of 5)	31 DEC 2009
Table 4-1 (Page 3 of 5)	31 DEC 2009
Table 4-1 (Page 4 of 5)	31 DEC 2009
Table 4-1 (Page 5 of 5)	31 DEC 2009
Table 4-2 (Page 1 of 2)	31 DEC 2009
Table 4-2 (Page 2 of 2)	31 DEC 2009
Table 4-3 (Page 1 of 2)	31 DEC 2012
Table 4-3 (Page 2 of 2)	31 DEC 2012
Table 4-4 (Page 1 of 1)	31 DEC 2012
Table 4-5 (Page 1 of 1)	31 DEC 2000
Table 4-6 (Page 1 of 1)	31 DEC 2012
Table 4-7 (Page 1 of 1)	31 DEC 2009
Table 4-8 (Page 1 of 1)	31 DEC 2000
Table 4-9 (Page 1 of 1)	31 DEC 2012
Table 4-10 (Page 1 of 1)	31 DEC 2012
Table 4-11 (Page 1 of 1)	31 DEC 2012
Table 4-12 (Page 1 of 1)	31 DEC 2000
Table 4-13 (Page 1 of 1)	31 DEC 2000
Table 4-14 (Page 1 of 1)	31 DEC 2000
Table 4-15 (Page 1 of 1)	31 DEC 2000
Table 4-16 (Page 1 of 1)	31 DEC 2000
Table 4-17 (Page 1 of 2)	31 DEC 2000
Table 4-17 (Page 2 of 2)	31 DEC 2000
Table 4-18 (Page 1 of 1)	31 DEC 2000
Table 4-19 (Page 1 of 1)	31 DEC 2000
Table 4-20 (Page 1 of 1)	31 DEC 2012
Table 4-21 (Page 1 of 1)	31 DEC 2000
Table 4-22 (Page 1 of 1)	31 DEC 2013
Table 4-23 (Page 1 of 1)	31 DEC 2009
Table 4-24 (Page 1 of 1)	31 DEC 2013
Chapter 4 Figures	
Figure 4-1 (Page 1 of 1)	31 DEC 2000
Figure 4-2 - 4-3 (Page 1 of 1)	31 DEC 2000
Figure 4-4 (Page 1 of 1)	31 DEC 2000
Figure 4-5 (Page 1 of 1)	31 DEC 2012
Figure 4-6 (Page 1 of 1)	31 DEC 2012
Figure 4-7 (Page 1 of 1)	31 DEC 2000
Figure 4-8 (Page 1 of 1)	31 DEC 2000
Figure 4-9 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 4-10 (Page 1 of 1)	31 DEC 2000
Figure 4-11 (Page 1 of 1)	31 DEC 2000
Figure 4-12 (Page 1 of 1)	31 DEC 2000
Figure 4-13 (Page 1 of 1)	31 DEC 2000
Figure 4-14 (Page 1 of 1)	31 DEC 2000
Figure 4-15 (Page 1 of 1)	31 DEC 2000
Figure 4-16 (Page 1 of 1)	31 DEC 2000
Figure 4-17 (Page 1 of 1)	31 DEC 2000
Figure 4-18 (Page 1 of 1)	31 DEC 2000
Figure 4-19 - 4-20 (Page 1 of 1)	31 DEC 2000
Figure 4-21 (Page 1 of 1)	31 DEC 2000
Figure 4-22 (Page 1 of 1)	31 DEC 2000
Figure 4-23 (Page 1 of 1)	31 DEC 2000
Figure 4-24 (Page 1 of 1)	31 DEC 2000
Figure 4-25 (Page 1 of 1)	31 DEC 2000
Figure 4-26 (Page 1 of 1)	31 DEC 2000
Figure 4-27 (Page 1 of 1)	31 DEC 2000
Figure 4-28 (Page 1 of 1)	31 DEC 2000
Figure 4-29 (Page 1 of 1)	31 DEC 2000
Figure 4-30 (Page 1 of 1)	31 DEC 2000
Figure 4-31 (Page 1 of 1)	31 DEC 2000
Figure 4-32 (Page 1 of 1)	31 DEC 2000
Figure 4-33 (Page 1 of 1)	31 DEC 2000
Figure 4-34 (Page 1 of 1)	31 DEC 2000
Figure 4-35 - 4-36 (Page 1 of 1)	31 DEC 2000
Figure 4-37 (Page 1 of 1)	31 DEC 2000
Figure 4-38 (Page 1 of 1)	31 DEC 2004
Chapter 5	
5-i	31 DEC 2017
5-ii	31 DEC 2017
5-iii	31 DEC 2017
5-iv	31 DEC 2017
5-v	31 DEC 2017
5-vi	31 DEC 2017
5-vii	31 DEC 2017
5.0-1	31 DEC 2017
5.0-2	31 DEC 2017
5.1-1	31 DEC 2017
5.1-2	31 DEC 2017
5.1-3	31 DEC 2017
5.1-4	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
5.1-5	31 DEC 2017
5.1-6	31 DEC 2017
5.2-1	31 DEC 2017
5.2-2	31 DEC 2017
5.2-3	31 DEC 2017
5.2-4	31 DEC 2017
5.2-5	31 DEC 2017
5.2-6	31 DEC 2017
5.2-7	31 DEC 2017
5.2-8	31 DEC 2017
5.2-9	31 DEC 2017
5.2-10	31 DEC 2017
5.2-11	31 DEC 2017
5.2-12	31 DEC 2017
5.2-13	31 DEC 2017
5.2-14	31 DEC 2017
5.2-15	31 DEC 2017
5.2-16	31 DEC 2017
5.2-17	31 DEC 2017
5.2-18	31 DEC 2017
5.2-19	31 DEC 2017
5.2-20	31 DEC 2017
5.2-21	31 DEC 2017
5.2-22	31 DEC 2017
5.2-23	31 DEC 2017
5.2-24	31 DEC 2017
5.2-25	31 DEC 2017
5.2-26	31 DEC 2017
5.2-27	31 DEC 2017
5.2-28	31 DEC 2017
5.2-29	31 DEC 2017
5.2-30	31 DEC 2017
5.2-31	31 DEC 2017
5.2-32	31 DEC 2017
5.2-33	31 DEC 2017
5.2-34	31 DEC 2017
5.2-35	31 DEC 2017
5.2-36	31 DEC 2017
5.2-37	31 DEC 2017
5.2-38	31 DEC 2017
5.2-39	31 DEC 2017
5.2-40	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
5.2-41	31 DEC 2017
5.2-42	31 DEC 2017
5.2-43	31 DEC 2017
5.2-44	31 DEC 2017
5.3-1	31 DEC 2017
5.3-2	31 DEC 2017
5.3-3	31 DEC 2017
5.3-4	31 DEC 2017
5.4-1	31 DEC 2017
5.4-2	31 DEC 2017
5.4-3	31 DEC 2017
5.4-4	31 DEC 2017
5.4-5	31 DEC 2017
5.4-6	31 DEC 2017
5.4-7	31 DEC 2017
5.4-8	31 DEC 2017
5.4-9	31 DEC 2017
5.4-10	31 DEC 2017
5.4-11	31 DEC 2017
5.4-12	31 DEC 2017
5.4-13	31 DEC 2017
5.4-14	31 DEC 2017
5.4-15	31 DEC 2017
5.4-16	31 DEC 2017
5.4-17	31 DEC 2017
5.4-18	31 DEC 2017
5.4-19	31 DEC 2017
5.4-20	31 DEC 2017
5.4-21	31 DEC 2017
5.4-22	31 DEC 2017
Chapter 5 Tables	
Table 5-1 (Page 1 of 1)	31 DEC 2000
Table 5-2 (Page 1 of 3)	31 DEC 2004
Table 5-2 (Page 2 of 3)	31 DEC 2004
Table 5-2 (Page 3 of 3)	31 DEC 2004
Table 5-3 (Page 1 of 1)	31 DEC 2010
Table 5-4 (Page 1 of 1)	31 DEC 2004
Table 5-5 (Page 1 of 2)	31 DEC 2014
Table 5-5 (Page 2 of 2)	31 DEC 2014
Table 5-6 (Page 1 of 1)	31 DEC 2000
Table 5-7 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 5-8 (Page 1 of 1)	31 DEC 2004
Table 5-9 (Page 1 of 1)	31 DEC 2004
Table 5-10 (Page 1 of 5)	31 DEC 2004
Table 5-10 (Page 2 of 5)	31 DEC 2004
Table 5-10 (Page 3 of 5)	31 DEC 2004
Table 5-10 (Page 4 of 5)	31 DEC 2004
Table 5-10 (Page 5 of 5)	31 DEC 2004
Table 5-11 (Page 1 of 2)	31 DEC 2003
Table 5-11 (Page 2 of 2)	31 DEC 2003
Table 5-12 (Page 1 of 2)	31 DEC 2003
Table 5-12 (Page 2 of 2)	31 DEC 2003
Table 5-13 (Page 1 of 1)	31 DEC 2003
Table 5-14 (Page 1 of 2)	31 DEC 2000
Table 5-14 (Page 2 of 2)	31 DEC 2000
Table 5-15 (Page 1 of 1)	31 DEC 2004
Table 5-16 (Page 1 of 1)	31 DEC 2011
Table 5-17 (Page 1 of 1)	31 DEC 2001
Table 5-18 (Page 1 of 3)	31 DEC 2000
Table 5-18 (Page 2 of 3)	31 DEC 2000
Table 5-18 (Page 3 of 3)	31 DEC 2000
Table 5-19 (Page 1 of 1)	31 DEC 2000
Table 5-20 (Page 1 of 3)	31 DEC 2004
Table 5-20 (Page 2 of 3)	31 DEC 2004
Table 5-20 (Page 3 of 3)	31 DEC 2004
Table 5-21 (Page 1 of 2)	31 DEC 2004
Table 5-21 (Page 2 of 2)	31 DEC 2004
Table 5-22 (Page 1 of 1)	31 DEC 2006
Table 5-23 (Page 1 of 3)	31 DEC 2000
Table 5-23 (Page 2 of 3)	31 DEC 2000
Table 5-23 (Page 3 of 3)	31 DEC 2000
Table 5-24 (Page 1 of 2)	31 DEC 2000
Table 5-24 (Page 2 of 2)	31 DEC 2000
Table 5-25 (Page 1 of 1)	31 DEC 2000
Table 5-26 (Page 1 of 2)	31 DEC 2000
Table 5-26 (Page 2 of 2)	31 DEC 2000
Table 5-27 (Page 1 of 2)	31 DEC 2000
Table 5-27 (Page 2 of 2)	31 DEC 2000
Table 5-28 (Page 1 of 1)	31 DEC 2000
Table 5-29 (Page 1 of 1)	31 DEC 2000
Chapter 5 Figures	
Figure 5-1 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 5-2 (Page 1 of 1)	31 DEC 2000
Figure 5-3 (Page 1 of 1)	31 DEC 2000
Figure 5-4 (Page 1 of 1)	31 DEC 2000
Figure 5-5 (Page 1 of 1)	31 DEC 2004
Figure 5-6 (Page 1 of 1)	31 DEC 2017
Figure 5-7 (Page 1 of 1)	31 DEC 2004
Figure 5-8 (Page 1 of 1)	31 DEC 2004
Figure 5-9 (Page 1 of 1)	31 DEC 2004
Figure 5-10 (Page 1 of 1)	31 DEC 2000
Figure 5-11 (Page 1 of 1)	31 DEC 2004
Figure 5-12 (Page 1 of 1)	31 DEC 2000
Figure 5-13 (Page 1 of 1)	31 DEC 2000
Figure 5-14 (Page 1 of 1)	31 DEC 2003
Figure 5-15 (Page 1 of 1)	31 DEC 2003
Figure 5-16 (Page 1 of 1)	31 DEC 2003
Figure 5-17 (Page 1 of 1)	31 DEC 2000
Figure 5-18 (Page 1 of 1)	31 DEC 2000
Figure 5-19 (Page 1 of 1)	31 DEC 2000
Figure 5-20 (Page 1 of 1)	31 DEC 2000
Figure 5-21 (Page 1 of 4)	31 DEC 2004
Figure 5-21 (Page 2 of 4)	31 DEC 2004
Figure 5-21 (Page 3 of 4)	31 DEC 2004
Figure 5-21 (Page 4 of 4)	31 DEC 2004
Figure 5-22 (Page 1 of 4)	31 DEC 2004
Figure 5-22 (Page 2 of 4)	31 DEC 2004
Figure 5-22 (Page 3 of 4)	31 DEC 2004
Figure 5-22 (Page 4 of 4)	31 DEC 2004
Figure 5-23 (Page 1 of 1)	31 DEC 2000
Figure 5-24 (Page 1 of 1)	31 DEC 2000
Figure 5-25 (Page 1 of 1)	31 DEC 2004
Figure 5-26 (Page 1 of 1)	31 DEC 2004
Figure 5-27 (Page 1 of 1)	31 DEC 2000
Figure 5-28 (Page 1 of 1)	31 DEC 2000
Figure 5-29 (Page 1 of 1)	31 DEC 2008
Figure 5-30 (Page 1 of 1)	31 DEC 2003
Figure 5-31 (Page 1 of 1)	31 DEC 2003
Figure 5-32 (Page 1 of 1)	31 DEC 2003
Figure 5-33 (Page 1 of 1)	31 DEC 2003
Chapter 6	
6-i	31 DEC 2017
6-ii	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
6-iii	31 DEC 2017
6-iv	31 DEC 2017
6-v	31 DEC 2017
6-vi	31 DEC 2017
6-vii	31 DEC 2017
6-viii	31 DEC 2017
6.0-1	31 DEC 2017
6.0-2	31 DEC 2017
6.1-1	31 DEC 2017
6.1-2	31 DEC 2017
6.1-3	31 DEC 2017
6.1-4	31 DEC 2017
6.1-5	31 DEC 2017
6.1-6	31 DEC 2017
6.2-1	31 DEC 2017
6.2-2	31 DEC 2017
6.2-3	31 DEC 2017
6.2-4	31 DEC 2017
6.2-5	31 DEC 2017
6.2-6	31 DEC 2017
6.2-7	31 DEC 2017
6.2-8	31 DEC 2017
6.2-9	31 DEC 2017
6.2-10	31 DEC 2017
6.2-11	31 DEC 2017
6.2-12	31 DEC 2017
6.2-13	31 DEC 2017
6.2-14	31 DEC 2017
6.2-15	31 DEC 2017
6.2-16	31 DEC 2017
6.2-17	31 DEC 2017
6.2-18	31 DEC 2017
6.2-19	31 DEC 2017
6.2-20	31 DEC 2017
6.2-21	31 DEC 2017
6.2-22	31 DEC 2017
6.2-23	31 DEC 2017
6.2-24	31 DEC 2017
6.3-1	31 DEC 2017
6.3-2	31 DEC 2017
6.3-3	31 DEC 2017
6.3-4	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
6.3-5	31 DEC 2017
6.3-6	31 DEC 2017
6.3-7	31 DEC 2017
6.3-8	31 DEC 2017
6.3-9	31 DEC 2017
6.3-10	31 DEC 2017
6.3-11	31 DEC 2017
6.3-12	31 DEC 2017
6.3-13	31 DEC 2017
6.3-14	31 DEC 2017
6.3-15	31 DEC 2017
6.3-16	31 DEC 2017
6.3-17	31 DEC 2017
6.3-18	31 DEC 2017
6.4-1	31 DEC 2017
6.4-2	31 DEC 2017
6.4-3	31 DEC 2017
6.4-4	31 DEC 2017
6.5-1	31 DEC 2017
6.5-2	31 DEC 2017
6.5-3	31 DEC 2017
6.5-4	31 DEC 2017
6.6-1	31 DEC 2017
6.6-2	31 DEC 2017
Chapter 6 Tables	
Table 6-1 (Page 1 of 1)	31 DEC 2000
Table 6-2 (Page 1 of 1)	31 DEC 2000
Table 6-3 (Page 1 of 2)	31 DEC 2000
Table 6-3 (Page 2 of 2)	31 DEC 2000
Table 6-4 (Page 1 of 2)	31 DEC 2016
Table 6-4 (Page 2 of 2)	31 DEC 2016
Table 6-5 (Page 1 of 1)	31 DEC 2000
Table 6-6 (Page 1 of 1)	31 DEC 2000
Table 6-7 (Page 1 of 7)	31 DEC 2014
Table 6-7 (Page 2 of 7)	31 DEC 2014
Table 6-7 (Page 3 of 7)	31 DEC 2014
Table 6-7 (Page 4 of 7)	31 DEC 2014
Table 6-7 (Page 5 of 7)	31 DEC 2014
Table 6-7 (Page 6 of 7)	31 DEC 2014
Table 6-7 (Page 7 of 7)	31 DEC 2014
Table 6-8 (Page 1 of 2)	31 DEC 2005

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 6-8 (Page 2 of 2)	31 DEC 2005
Table 6-9 (Page 1 of 1)	31 DEC 2009
Table 6-10 (Page 1 of 1)	31 DEC 2000
Table 6-11 (Page 1 of 2)	31 DEC 2005
Table 6-11 (Page 2 of 2)	31 DEC 2005
Table 6-12 (Page 1 of 1)	31 DEC 2000
Table 6-13 (Page 1 of 1)	31 DEC 2000
Table 6-14 (Page 1 of 2)	31 DEC 2000
Table 6-14 (Page 2 of 2)	31 DEC 2000
Table 6-15 (Page 1 of 1)	31 DEC 2005
Table 6-16 - 6-17 (Page 1 of 1)	31 DEC 2000
Table 6-18 (Page 1 of 1)	31 DEC 2000
Table 6-19 (Page 1 of 1)	31 DEC 2015
Table 6-20 (Page 1 of 1)	31 DEC 2000
Table 6-21 (Page 1 of 1)	31 DEC 2003
Table 6-22 (Page 1 of 1)	31 DEC 2017
Table 6-23 (Page 1 of 1)	31 DEC 2013
Table 6-24 (Page 1 of 1)	31 DEC 2017
Table 6-25 (Page 1 of 1)	31 DEC 2017
Table 6-26 (Page 1 of 2)	31 DEC 2013
Table 6-26 (Page 2 of 2)	31 DEC 2013
Table 6-27 (Page 1 of 1)	31 DEC 2008
Table 6-28 (Page 1 of 1)	31 DEC 2000
Table 6-29 (Page 1 of 15)	31 DEC 2003
Table 6-29 (Page 2 of 15)	31 DEC 2003
Table 6-29 (Page 3 of 15)	31 DEC 2003
Table 6-29 (Page 4 of 15)	31 DEC 2003
Table 6-29 (Page 5 of 15)	31 DEC 2003
Table 6-29 (Page 6 of 15)	31 DEC 2003
Table 6-29 (Page 7 of 15)	31 DEC 2003
Table 6-29 (Page 8 of 15)	31 DEC 2003
Table 6-29 (Page 9 of 15)	31 DEC 2003
Table 6-29 (Page 10 of 15)	31 DEC 2003
Table 6-29 (Page 11 of 15)	31 DEC 2003
Table 6-29 (Page 12 of 15)	31 DEC 2003
Table 6-29 (Page 13 of 15)	31 DEC 2003
Table 6-29 (Page 14 of 15)	31 DEC 2003
Table 6-29 (Page 15 of 15)	31 DEC 2003
Table 6-30 (Page 1 of 40)	31 DEC 2003
Table 6-30 (Page 2 of 40)	31 DEC 2003
Table 6-30 (Page 3 of 40)	31 DEC 2003
Table 6-30 (Page 4 of 40)	31 DEC 2003

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 6-30 (Page 5 of 40)	31 DEC 2003
Table 6-30 (Page 6 of 40)	31 DEC 2003
Table 6-30 (Page 7 of 40)	31 DEC 2003
Table 6-30 (Page 8 of 40)	31 DEC 2003
Table 6-30 (Page 9 of 40)	31 DEC 2003
Table 6-30 (Page 10 of 40)	31 DEC 2003
Table 6-30 (Page 11 of 40)	31 DEC 2003
Table 6-30 (Page 12 of 40)	31 DEC 2003
Table 6-30 (Page 13 of 40)	31 DEC 2003
Table 6-30 (Page 14 of 40)	31 DEC 2003
Table 6-30 (Page 15 of 40)	31 DEC 2003
Table 6-30 (Page 16 of 40)	31 DEC 2003
Table 6-30 (Page 17 of 40)	31 DEC 2003
Table 6-30 (Page 18 of 40)	31 DEC 2003
Table 6-30 (Page 19 of 40)	31 DEC 2003
Table 6-30 (Page 20 of 40)	31 DEC 2003
Table 6-30 (Page 21 of 40)	31 DEC 2003
Table 6-30 (Page 22 of 40)	31 DEC 2003
Table 6-30 (Page 23 of 40)	31 DEC 2003
Table 6-30 (Page 24 of 40)	31 DEC 2003
Table 6-30 (Page 25 of 40)	31 DEC 2003
Table 6-30 (Page 26 of 40)	31 DEC 2003
Table 6-30 (Page 27 of 40)	31 DEC 2003
Table 6-30 (Page 28 of 40)	31 DEC 2003
Table 6-30 (Page 29 of 40)	31 DEC 2003
Table 6-30 (Page 30 of 40)	31 DEC 2003
Table 6-30 (Page 31 of 40)	31 DEC 2003
Table 6-30 (Page 32 of 40)	31 DEC 2003
Table 6-30 (Page 33 of 40)	31 DEC 2003
Table 6-30 (Page 34 of 40)	31 DEC 2003
Table 6-30 (Page 35 of 40)	31 DEC 2003
Table 6-30 (Page 36 of 40)	31 DEC 2003
Table 6-30 (Page 37 of 40)	31 DEC 2003
Table 6-30 (Page 38 of 40)	31 DEC 2003
Table 6-30 (Page 39 of 40)	31 DEC 2003
Table 6-30 (Page 40 of 40)	31 DEC 2003
Table 6-31 (Page 1 of 2)	31 DEC 2017
Table 6-31 (Page 2 of 2)	31 DEC 2017
Table 6-32 (Page 1 of 5)	31 DEC 2003
Table 6-32 (Page 2 of 5)	31 DEC 2003
Table 6-32 (Page 3 of 5)	31 DEC 2003
Table 6-32 (Page 4 of 5)	31 DEC 2003

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 6-32 (Page 5 of 5)	31 DEC 2003
Table 6-33 (Page 1 of 1)	31 DEC 2005
Table 6-34 (Page 1 of 1)	31 DEC 2008
Table 6-35 (Page 1 of 18)	31 DEC 2003
Table 6-35 (Page 2 of 18)	31 DEC 2003
Table 6-35 (Page 3 of 18)	31 DEC 2003
Table 6-35 (Page 4 of 18)	31 DEC 2003
Table 6-35 (Page 5 of 18)	31 DEC 2003
Table 6-35 (Page 6 of 18)	31 DEC 2003
Table 6-35 (Page 7 of 18)	31 DEC 2003
Table 6-35 (Page 8 of 18)	31 DEC 2003
Table 6-35 (Page 9 of 18)	31 DEC 2003
Table 6-35 (Page 10 of 18)	31 DEC 2003
Table 6-35 (Page 11 of 18)	31 DEC 2003
Table 6-35 (Page 12 of 18)	31 DEC 2003
Table 6-35 (Page 13 of 18)	31 DEC 2003
Table 6-35 (Page 14 of 18)	31 DEC 2003
Table 6-35 (Page 15 of 18)	31 DEC 2003
Table 6-35 (Page 16 of 18)	31 DEC 2003
Table 6-35 (Page 17 of 18)	31 DEC 2003
Table 6-35 (Page 18 of 18)	31 DEC 2003
Chapter 6 Figures	
Figure 6-1 (Page 1 of 1)	31 DEC 2005
Figure 6-2 (Page 1 of 1)	31 DEC 2002
Figure 6-3 (Page 1 of 1)	31 DEC 2017
Figure 6-4 (Page 1 of 1)	31 DEC 2006
Figure 6-5 (Page 1 of 1)	31 DEC 2000
Figure 6-6 (Page 1 of 1)	31 DEC 2000
Figure 6-7 (Page 1 of 1)	31 DEC 2000
Figure 6-8 (Page 1 of 1)	31 DEC 2000
Figure 6-9 (Page 1 of 3)	31 DEC 2009
Figure 6-9 (Page 2 of 3)	31 DEC 2009
Figure 6-9 (Page 3 of 3)	31 DEC 2009
Figure 6-10 - 6-15 (Page 1 of 1)	31 DEC 2000
Figure 6-16 (Page 1 of 1)	31 DEC 2000
Figure 6-17 (Page 1 of 1)	31 DEC 2000
Figure 6-18 (Page 1 of 1)	31 DEC 2000
Figure 6-19 (Page 1 of 1)	31 DEC 2007
Figure 6-20 (Page 1 of 1)	31 DEC 2000
Figure 6-21 (Page 1 of 1)	31 DEC 2000
Figure 6-22 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 6-23 (Page 1 of 1)	31 DEC 2000
Figure 6-24 (Page 1 of 1)	31 DEC 2000
Figure 6-25 (Page 1 of 1)	31 DEC 2000
Figure 6-26 (Page 1 of 1)	31 DEC 2000
Figure 6-27 (Page 1 of 1)	31 DEC 2000
Figure 6-28 (Page 1 of 1)	31 DEC 2003
Figure 6-29 (Page 1 of 1)	31 DEC 2003
Figure 6-30 (Page 1 of 1)	31 DEC 2003
Figure 6-31 (Page 1 of 1)	31 DEC 2003
Figure 6-32 (Page 1 of 1)	31 DEC 2003
Figure 6-33 (Page 1 of 1)	31 DEC 2003
Figure 6-34 (Page 1 of 1)	31 DEC 2003
Figure 6-35 (Page 1 of 1)	31 DEC 2003
Figure 6-36 (Page 1 of 1)	31 DEC 2013
Figure 6-37 (Page 1 of 1)	31 DEC 2013
Figure 6-38 - 6-41 (Page 1 of 1)	31 DEC 2003
Figure 6-42 (Page 1 of 1)	31 DEC 2008
Figure 6-43 (Page 1 of 1)	31 DEC 2008
Figure 6-44 (Page 1 of 1)	31 DEC 2000
Figure 6-45 (Page 1 of 1)	31 DEC 2000
Figure 6-46 (Page 1 of 1)	31 DEC 2000
Figure 6-47 (Page 1 of 1)	31 DEC 2000
Figure 6-48 (Page 1 of 1)	31 DEC 2000
Figure 6-49 (Page 1 of 1)	31 DEC 2003
Figure 6-50 (Page 1 of 1)	31 DEC 2000
Figure 6-51 (Page 1 of 1)	31 DEC 2000
Figure 6-52 (Page 1 of 1)	31 DEC 2000
Figure 6-53 (Page 1 of 1)	31 DEC 2000
Chapter 7	
7-i	31 DEC 2017
7-ii	31 DEC 2017
7-iii	31 DEC 2017
7-iv	31 DEC 2017
7-v	31 DEC 2017
7-vi	31 DEC 2017
7-vii	31 DEC 2017
7.0-1	31 DEC 2017
7.0-2	31 DEC 2017
7.1-1	31 DEC 2017
7.1-2	31 DEC 2017
7.1-3	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
7.1-4	31 DEC 2017
7.2-1	31 DEC 2017
7.2-2	31 DEC 2017
7.2-3	31 DEC 2017
7.2-4	31 DEC 2017
7.2-5	31 DEC 2017
7.2-6	31 DEC 2017
7.2-7	31 DEC 2017
7.2-8	31 DEC 2017
7.2-9	31 DEC 2017
7.2-10	31 DEC 2017
7.2-11	31 DEC 2017
7.2-12	31 DEC 2017
7.2-13	31 DEC 2017
7.2-14	31 DEC 2017
7.3-1	31 DEC 2017
7.3-2	31 DEC 2017
7.3-3	31 DEC 2017
7.3-4	31 DEC 2017
7.3-5	31 DEC 2017
7.3-6	31 DEC 2017
7.3-7	31 DEC 2017
7.3-8	31 DEC 2017
7.3-9	31 DEC 2017
7.3-10	31 DEC 2017
7.4-1	31 DEC 2017
7.4-2	31 DEC 2017
7.4-3	31 DEC 2017
7.4-4	31 DEC 2017
7.4-5	31 DEC 2017
7.4-6	31 DEC 2017
7.4-7	31 DEC 2017
7.4-8	31 DEC 2017
7.4-9	31 DEC 2017
7.4-10	31 DEC 2017
7.4-11	31 DEC 2017
7.4-12	31 DEC 2017
7.4-13	31 DEC 2017
7.4-14	31 DEC 2017
7.4-15	31 DEC 2017
7.4-16	31 DEC 2017
7.4-17	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
7.4-18	31 DEC 2017
7.5-1	31 DEC 2017
7.5-2	31 DEC 2017
7.5-3	31 DEC 2017
7.5-4	31 DEC 2017
7.5-5	31 DEC 2017
7.5-6	31 DEC 2017
7.5-7	31 DEC 2017
7.5-8	31 DEC 2017
7.5-9	31 DEC 2017
7.5-10	31 DEC 2017
7.5-11	31 DEC 2017
7.5-12	31 DEC 2017
7.5-13	31 DEC 2017
7.5-14	31 DEC 2017
7.5-15	31 DEC 2017
7.5-16	31 DEC 2017
7.5-17	31 DEC 2017
7.5-18	31 DEC 2017
7.5-19	31 DEC 2017
7.5-20	31 DEC 2017
7.5-21	31 DEC 2017
7.5-22	31 DEC 2017
7.5-23	31 DEC 2017
7.5-24	31 DEC 2017
7.5-25	31 DEC 2017
7.5-26	31 DEC 2017
7.5-27	31 DEC 2017
7.5-28	31 DEC 2017
7.6-1	31 DEC 2017
7.6-2	31 DEC 2017
7.6-3	31 DEC 2017
7.6-4	31 DEC 2017
7.6-5	31 DEC 2017
7.6-6	31 DEC 2017
7.6-7	31 DEC 2017
7.6-8	31 DEC 2017
7.6-9	31 DEC 2017
7.6-10	31 DEC 2017
7.6-11	31 DEC 2017
7.6-12	31 DEC 2017
7.6-13	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
7.6-14	31 DEC 2017
7.6-15	31 DEC 2017
7.6-16	31 DEC 2017
7.6-17	31 DEC 2017
7.6-18	31 DEC 2017
7.7-1	31 DEC 2017
7.7-2	31 DEC 2017
7.7-3	31 DEC 2017
7.7-4	31 DEC 2017
7.7-5	31 DEC 2017
7.7-6	31 DEC 2017
7.8-1	31 DEC 2017
7.8-2	31 DEC 2017
7.8-3	31 DEC 2017
7.8-4	31 DEC 2017
7.9-1	31 DEC 2017
7.9-2	31 DEC 2017
7.9-3	31 DEC 2017
7.9-4	31 DEC 2017
7.9-5	31 DEC 2017
7.9-6	31 DEC 2017
7.10-1	31 DEC 2017
7.10-2	31 DEC 2017
7.11-1	31 DEC 2017
7.11-2	31 DEC 2017
Chapter 7 Tables	
Table 7-1 (Page 1 of 1)	31 DEC 2016
Table 7-2 (Page 1 of 1)	31 DEC 2012
Table 7-3 (Page 1 of 1)	31 DEC 2012
Table 7-4 (Page 1 of 1)	31 DEC 2013
Table 7-5 (Page 1 of 2)	31 DEC 2006
Table 7-5 (Page 2 of 2)	31 DEC 2006
Table 7-6 (Page 1 of 1)	31 DEC 2005
Chapter 7 Figures	
Figure 7-1 (Page 1 of 16)	31 DEC 2013
Figure 7-1 (Page 2 of 16)	31 DEC 2013
Figure 7-1 (Page 3 of 16)	31 DEC 2013
Figure 7-1 (Page 4 of 16)	31 DEC 2013
Figure 7-1 (Page 5 of 16)	31 DEC 2013
Figure 7-1 (Page 6 of 16)	31 DEC 2013

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 7-1 (Page 7 of 16)	31 DEC 2013
Figure 7-1 (Page 8 of 16)	31 DEC 2013
Figure 7-1 (Page 9 of 16)	31 DEC 2013
Figure 7-1 (Page 10 of 16)	31 DEC 2013
Figure 7-1 (Page 11 of 16)	31 DEC 2013
Figure 7-1 (Page 12 of 16)	31 DEC 2013
Figure 7-1 (Page 13 of 16)	31 DEC 2013
Figure 7-1 (Page 14 of 16)	31 DEC 2013
Figure 7-1 (Page 15 of 16)	31 DEC 2013
Figure 7-1 (Page 16 of 16)	31 DEC 2013
Figure 7-2 (Page 1 of 1)	31 DEC 2000
Figure 7-3 (Page 1 of 1)	31 DEC 2003
Figure 7-4 (Page 1 of 1)	31 DEC 2012
Figure 7-5 (Page 1 of 8)	31 DEC 2013
Figure 7-5 (Page 2 of 8)	31 DEC 2013
Figure 7-5 (Page 3 of 8)	31 DEC 2013
Figure 7-5 (Page 4 of 8)	31 DEC 2013
Figure 7-5 (Page 5 of 8)	31 DEC 2013
Figure 7-5 (Page 6 of 8)	31 DEC 2013
Figure 7-5 (Page 7 of 8)	31 DEC 2013
Figure 7-5 (Page 8 of 8)	31 DEC 2013
Figure 7-6 (Page 1 of 1)	31 DEC 2013
Figure 7-7 (Page 1 of 1)	31 DEC 2000
Figure 7-8 (Page 1 of 1)	31 DEC 2013
Figure 7-9 (Page 1 of 1)	31 DEC 2011
Figure 7-10 (Page 1 of 1)	31 DEC 2013
Figure 7-11 (Page 1 of 1)	31 DEC 2000
Figure 7-12 (Page 1 of 1)	31 DEC 2009
Figure 7-13 (Page 1 of 1)	31 DEC 2009
Figure 7-14 (Page 1 of 1)	31 DEC 2000
Figure 7-15 (Page 1 of 1)	31 DEC 2000
Figure 7-16 (Page 1 of 1)	31 DEC 2000
Figure 7-17 (Page 1 of 1)	31 DEC 2000
Figure 7-18 (Page 1 of 1)	31 DEC 2004
Figure 7-19 (Page 1 of 1)	31 DEC 2000
Figure 7-20 (Page 1 of 1)	31 DEC 2000
Figure 7-21 (Page 1 of 1)	31 DEC 2000
Figure 7-22 - 7-25 (Page 1 of 1)	31 DEC 2000
Figure 7-26 (Page 1 of 1)	31 DEC 2000
Chapter 8	
8-i	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
8-ii	31 DEC 2017
8-iii	31 DEC 2017
8-iv	31 DEC 2017
8.0-1	31 DEC 2017
8.0-2	31 DEC 2017
8.1-1	31 DEC 2017
8.1-2	31 DEC 2017
8.2-1	31 DEC 2017
8.2-2	31 DEC 2017
8.2-3	31 DEC 2017
8.2-4	31 DEC 2017
8.2-5	31 DEC 2017
8.2-6	31 DEC 2017
8.3-1	31 DEC 2017
8.3-2	31 DEC 2017
8.3-3	31 DEC 2017
8.3-4	31 DEC 2017
8.3-5	31 DEC 2017
8.3-6	31 DEC 2017
8.3-7	31 DEC 2017
8.3-8	31 DEC 2017
8.3-9	31 DEC 2017
8.3-10	31 DEC 2017
8.3-11	31 DEC 2017
8.3-12	31 DEC 2017
8.3-13	31 DEC 2017
8.3-14	31 DEC 2017
8.3-15	31 DEC 2017
8.3-16	31 DEC 2017
8.3-17	31 DEC 2017
8.3-18	31 DEC 2017
8.3-19	31 DEC 2017
8.3-20	31 DEC 2017
8.3-21	31 DEC 2017
8.3-22	31 DEC 2017
8.4-1	31 DEC 2017
8.4-2	31 DEC 2017
Chapter 8 Tables	
Table 8-1 (Page 1 of 2)	31 DEC 2002
Table 8-1 (Page 2 of 2)	31 DEC 2002
Table 8-2 (Page 1 of 2)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 8-2 (Page 2 of 2)	31 DEC 2000
Table 8-3 (Page 1 of 2)	31 DEC 2014
Table 8-3 (Page 2 of 2)	31 DEC 2014
Table 8-4 (Page 1 of 2)	31 DEC 2014
Table 8-4 (Page 2 of 2)	31 DEC 2014
Table 8-5 (Page 1 of 4)	31 DEC 2000
Table 8-5 (Page 2 of 4)	31 DEC 2000
Table 8-5 (Page 3 of 4)	31 DEC 2000
Table 8-5 (Page 4 of 4)	31 DEC 2000
Table 8-6 (Page 1 of 1)	31 DEC 2000
Table 8-7 (Page 1 of 1)	31 DEC 2000
Chapter 8 Figures	
Figure 8-1 (Page 1 of 1)	31 DEC 2015
Figure 8-2 (Page 1 of 1)	31 DEC 2015
Figure 8-3 (Page 1 of 2)	31 DEC 2015
Figure 8-3 (Page 2 of 2)	31 DEC 2015
Figure 8-4 (Page 1 of 3)	31 DEC 2015
Figure 8-4 (Page 2 of 3)	31 DEC 2015
Figure 8-4 (Page 3 of 3)	31 DEC 2015
Figure 8-5 (Page 1 of 1)	31 DEC 2017
Figure 8-6 (Page 1 of 1)	31 DEC 2013
Figure 8-7 (Page 1 of 1)	31 DEC 2006
Figure 8-8 (Page 1 of 1)	31 DEC 2000
Figure 8-9 (Page 1 of 1)	31 DEC 2000
Chapter 9	
9-i	31 DEC 2017
9-ii	31 DEC 2017
9-iii	31 DEC 2017
9-iv	31 DEC 2017
9-v	31 DEC 2017
9-vi	31 DEC 2017
9-vii	31 DEC 2017
9-viii	31 DEC 2017
9.0-1	31 DEC 2017
9.0-2	31 DEC 2017
9.1-1	31 DEC 2017
9.1-2	31 DEC 2017
9.1-3	31 DEC 2017
9.1-4	31 DEC 2017
9.1-5	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
9.1-6	31 DEC 2017
9.1-7	31 DEC 2017
9.1-8	31 DEC 2017
9.1-9	31 DEC 2017
9.1-10	31 DEC 2017
9.1-11	31 DEC 2017
9.1-12	31 DEC 2017
9.1-13	31 DEC 2017
9.1-14	31 DEC 2017
9.1-15	31 DEC 2017
9.1-16	31 DEC 2017
9.1-17	31 DEC 2017
9.1-18	31 DEC 2017
9.1-19	31 DEC 2017
9.1-20	31 DEC 2017
9.1-21	31 DEC 2017
9.1-22	31 DEC 2017
9.1-23	31 DEC 2017
9.1-24	31 DEC 2017
9.1-25	31 DEC 2017
9.1-26	31 DEC 2017
9.1-27	31 DEC 2017
9.1-28	31 DEC 2017
9.1-29	31 DEC 2017
9.1-30	31 DEC 2017
9.2-1	31 DEC 2017
9.2-2	31 DEC 2017
9.2-3	31 DEC 2017
9.2-4	31 DEC 2017
9.2-5	31 DEC 2017
9.2-6	31 DEC 2017
9.2-7	31 DEC 2017
9.2-8	31 DEC 2017
9.2-9	31 DEC 2017
9.2-10	31 DEC 2017
9.2-11	31 DEC 2017
9.2-12	31 DEC 2017
9.2-13	31 DEC 2017
9.2-14	31 DEC 2017
9.3-1	31 DEC 2017
9.3-2	31 DEC 2017
9.3-3	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
9.3-4	31 DEC 2017
9.3-5	31 DEC 2017
9.3-6	31 DEC 2017
9.3-7	31 DEC 2017
9.3-8	31 DEC 2017
9.3-9	31 DEC 2017
9.3-10	31 DEC 2017
9.3-11	31 DEC 2017
9.3-12	31 DEC 2017
9.3-13	31 DEC 2017
9.3-14	31 DEC 2017
9.3-15	31 DEC 2017
9.3-16	31 DEC 2017
9.4-1	31 DEC 2017
9.4-2	31 DEC 2017
9.4-3	31 DEC 2017
9.4-4	31 DEC 2017
9.4-5	31 DEC 2017
9.4-6	31 DEC 2017
9.4-7	31 DEC 2017
9.4-8	31 DEC 2017
9.4-9	31 DEC 2017
9.4-10	31 DEC 2017
9.4-11	31 DEC 2017
9.4-12	31 DEC 2017
9.4-13	31 DEC 2017
9.4-14	31 DEC 2017
9.5-1	31 DEC 2017
9.5-2	31 DEC 2017
9.5-3	31 DEC 2017
9.5-4	31 DEC 2017
9.5-5	31 DEC 2017
9.5-6	31 DEC 2017
9.6-1	31 DEC 2017
9.6-2	31 DEC 2017
9.6-3	31 DEC 2017
9.6-4	31 DEC 2017
9.6-5	31 DEC 2017
9.6-6	31 DEC 2017
9.6-7	31 DEC 2017
9.6-8	31 DEC 2017
9.6-9	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
9.6-10	31 DEC 2017
9.6-11	31 DEC 2017
9.6-12	31 DEC 2017
9.6-13	31 DEC 2017
9.6-14	31 DEC 2017
9.6-15	31 DEC 2017
9.6-16	31 DEC 2017
9.6-17	31 DEC 2017
9.6-18	31 DEC 2017
9.6-19	31 DEC 2017
9.6-20	31 DEC 2017
9.7-1	31 DEC 2017
9.7-2	31 DEC 2017
9.7-3	31 DEC 2017
9.7-4	31 DEC 2017
9.7-5	31 DEC 2017
9.7-6	31 DEC 2017
9.7-7	31 DEC 2017
9.7-8	31 DEC 2017
9.7-9	31 DEC 2017
9.7-10	31 DEC 2017
9.7-11	31 DEC 2017
9.7-12	31 DEC 2017
Chapter 9 Tables	
Table 9-1 (Page 1 of 2)	31 DEC 2000
Table 9-1 (Page 2 of 2)	31 DEC 2000
Table 9-2 (Page 1 of 2)	31 DEC 2015
Table 9-2 (Page 2 of 2)	31 DEC 2015
Table 9-3 (Page 1 of 1)	31 DEC 2000
Table 9-4 (Page 1 of 2)	31 DEC 2000
Table 9-4 (Page 2 of 2)	31 DEC 2000
Table 9-5 (Page 1 of 3)	31 DEC 2006
Table 9-5 (Page 2 of 3)	31 DEC 2006
Table 9-5 (Page 3 of 3)	31 DEC 2006
Table 9-6 (Page 1 of 1)	31 DEC 2017
Table 9-7 (Page 1 of 2)	31 DEC 2005
Table 9-7 (Page 2 of 2)	31 DEC 2005
Table 9-8 (Page 1 of 1)	31 DEC 2000
Table 9-9 (Page 1 of 2)	31 DEC 2009
Table 9-9 (Page 2 of 2)	31 DEC 2009
Table 9-10 (Page 1 of 2)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 9-10 (Page 2 of 2)	31 DEC 2000
Table 9-11 (Page 1 of 2)	31 DEC 2000
Table 9-11 (Page 2 of 2)	31 DEC 2000
Table 9-12 (Page 1 of 1)	31 DEC 2002
Table 9-13 (Page 1 of 2)	31 DEC 2000
Table 9-13 (Page 2 of 2)	31 DEC 2000
Table 9-14 (Page 1 of 4)	31 DEC 2010
Table 9-14 (Page 2 of 4)	31 DEC 2010
Table 9-14 (Page 3 of 4)	31 DEC 2010
Table 9-14 (Page 4 of 4)	31 DEC 2010
Table 9-15 (Page 1 of 2)	31 DEC 2010
Table 9-15 (Page 2 of 2)	31 DEC 2010
Table 9-16 (Page 1 of 1)	31 DEC 2011
Table 9-17 (Page 1 of 1)	31 DEC 2000
Table 9-18 (Page 1 of 1)	31 DEC 2000
Table 9-19 (Page 1 of 1)	31 DEC 2000
Table 9-20 (Page 1 of 1)	31 DEC 2015
Chapter 9 Figures	
Figure 9-1 (Page 1 of 1)	31 DEC 2000
Figure 9-2 (Page 1 of 1)	31 DEC 2000
Figure 9-3 (Page 1 of 1)	31 DEC 2000
Figure 9-4 (Page 1 of 1)	31 DEC 2000
Figure 9-5 (Page 1 of 1)	31 DEC 2017
Figure 9-6 (Page 1 of 1)	31 DEC 2000
Figure 9-7 (Page 1 of 2)	31 DEC 2017
Figure 9-7 (Page 2 of 2)	31 DEC 2017
Figure 9-8 (Page 1 of 1)	31 DEC 2000
Figure 9-9 (Page 1 of 1)	31 DEC 2000
Figure 9-10 (Page 1 of 1)	31 DEC 2016
Figure 9-11 (Page 1 of 1)	31 DEC 2017
Figure 9-12 (Page 1 of 1)	31 DEC 2015
Figure 9-13 (Page 1 of 1)	31 DEC 2000
Figure 9-14 (Page 1 of 1)	31 DEC 2000
Figure 9-15 (Page 1 of 1)	31 DEC 2003
Figure 9-16 (Page 1 of 1)	31 DEC 2007
Figure 9-17 (Page 1 of 1)	31 DEC 2015
Figure 9-18 (Page 1 of 1)	31 DEC 2017
Figure 9-19 (Page 1 of 1)	31 DEC 2004
Figure 9-20 (Page 1 of 1)	31 DEC 2004
Figure 9-21 (Page 1 of 1)	31 DEC 2001
Figure 9-22 (Page 1 of 1)	31 DEC 2000

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 9-23 (Page 1 of 1)	31 DEC 2000
Figure 9-24 (Page 1 of 1)	31 DEC 2016
Figure 9-25 (Page 1 of 1)	31 DEC 2000
Figure 9-26 (Page 1 of 1)	31 DEC 2000
Figure 9-27 (Page 1 of 1)	31 DEC 2011
Figure 9-28 (Page 1 of 1)	31 DEC 2001
Figure 9-29 (Page 1 of 1)	31 DEC 2000
Figure 9-30 (Page 1 of 1)	31 DEC 2013
Figure 9-31 (Page 1 of 1)	31 DEC 2013
Figure 9-32 (Page 1 of 1)	31 DEC 2013
Figure 9-33 (Page 1 of 1)	31 DEC 2013
Figure 9-34 (Page 1 of 1)	31 DEC 2013
Figure 9-35 (Page 1 of 1)	31 DEC 2000
Figure 9-36 (Page 1 of 1)	31 DEC 2013
Figure 9-37 (Page 1 of 1)	31 DEC 2013
Figure 9-38 (Page 1 of 1)	31 DEC 2013
Figure 9-39 (Page 1 of 1)	31 DEC 2000
Figure 9-40 (Page 1 of 1)	31 DEC 2013
Figure 9-41 (Page 1 of 1)	31 DEC 2000
Figure 9-42 (Page 1 of 1)	31 DEC 2000
Figure 9-43 (Page 1 of 1)	31 DEC 2000
Figure 9-44 (Page 1 of 1)	31 DEC 2015
Figure 9-45 (Page 1 of 1)	31 DEC 2015
Figure 9-46 (Page 1 of 1)	31 DEC 2015
Chapter 10	
10-i	31 DEC 2017
10-ii	31 DEC 2017
10-iii	31 DEC 2017
10-iv	31 DEC 2017
10.0-1	31 DEC 2017
10.0-2	31 DEC 2017
10.1-1	31 DEC 2017
10.1-2	31 DEC 2017
10.2-1	31 DEC 2017
10.2-2	31 DEC 2017
10.2-3	31 DEC 2017
10.2-4	31 DEC 2017
10.3-1	31 DEC 2017
10.3-2	31 DEC 2017
10.3-3	31 DEC 2017
10.3-4	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
10.3-5	31 DEC 2017
10.3-6	31 DEC 2017
10.4-1	31 DEC 2017
10.4-2	31 DEC 2017
10.4-3	31 DEC 2017
10.4-4	31 DEC 2017
10.4-5	31 DEC 2017
10.4-6	31 DEC 2017
10.4-7	31 DEC 2017
10.4-8	31 DEC 2017
10.4-9	31 DEC 2017
10.4-10	31 DEC 2017
10.4-11	31 DEC 2017
10.4-12	31 DEC 2017
10.4-13	31 DEC 2017
10.4-14	31 DEC 2017
10.4-15	31 DEC 2017
10.4-16	31 DEC 2017
10.4-17	31 DEC 2017
10.4-18	31 DEC 2017
10.4-19	31 DEC 2017
10.4-20	31 DEC 2017
10.4-21	31 DEC 2017
10.4-22	31 DEC 2017
10.4-23	31 DEC 2017
10.4-24	31 DEC 2017
Chapter 10 Tables	
Table 10-1 (Page 1 of 1)	31 DEC 2000
Table 10-2 (Page 1 of 1)	31 DEC 2009
Chapter 10 Figures	
Figure 10-1 (Page 1 of 1)	31 DEC 2007
Figure 10-2 (Page 1 of 1)	31 DEC 2015
Figure 10-3 (Page 1 of 1)	31 DEC 2000
Figure 10-4 (Page 1 of 1)	31 DEC 2015
Figure 10-5 (Page 1 of 1)	31 DEC 2000
Figure 10-6 (Page 1 of 1)	31 DEC 2007
Figure 10-7 (Page 1 of 1)	31 DEC 2015
Figure 10-8 (Page 1 of 1)	31 DEC 2015
Figure 10-9 (Page 1 of 2)	31 DEC 2004
Figure 10-9 (Page 2 of 2)	31 DEC 2004

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Chapter 11	
11-i	31 DEC 2017
11-ii	31 DEC 2017
11-iii	31 DEC 2017
11-iv	31 DEC 2017
11.0-1	31 DEC 2017
11.0-2	31 DEC 2017
11.1-1	31 DEC 2017
11.1-2	31 DEC 2017
11.2-1	31 DEC 2017
11.2-2	31 DEC 2017
11.2-3	31 DEC 2017
11.2-4	31 DEC 2017
11.3-1	31 DEC 2017
11.3-2	31 DEC 2017
11.3-3	31 DEC 2017
11.3-4	31 DEC 2017
11.4-1	31 DEC 2017
11.4-2	31 DEC 2017
11.5-1	31 DEC 2017
11.5-2	31 DEC 2017
11.5-3	31 DEC 2017
11.5-4	31 DEC 2017
11.5-5	31 DEC 2017
11.5-6	31 DEC 2017
11.6-1	31 DEC 2017
11.6-2	31 DEC 2017
11.6-3	31 DEC 2017
11.6-4	31 DEC 2017
11.6-5	31 DEC 2017
11.6-6	31 DEC 2017
11.6-7	31 DEC 2017
11.6-8	31 DEC 2017
11.6-9	31 DEC 2017
11.6-10	31 DEC 2017
11.6-11	31 DEC 2017
11.5-12	31 DEC 2017
11.7-1	31 DEC 2017
11.7-2	31 DEC 2017
11.8-1	31 DEC 2017
11.8-2	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Chapter 11 Tables	
Table 11-1 (Page 1 of 1)	31 DEC 2000
Table 11-2 (Page 1 of 1)	31 DEC 2000
Table 11-3 (Page 1 of 1)	31 DEC 2000
Table 11-4 (Page 1 of 1)	31 DEC 2004
Table 11-5 (Page 1 of 2)	31 DEC 2000
Table 11-5 (Page 2 of 2)	31 DEC 2000
Table 11-6 (Page 1 of 7)	31 DEC 2012
Table 11-6 (Page 2 of 7)	31 DEC 2012
Table 11-6 (Page 3 of 7)	31 DEC 2012
Table 11-6 (Page 4 of 7)	31 DEC 2012
Table 11-6 (Page 5 of 7)	31 DEC 2012
Table 11-6 (Page 6 of 7)	31 DEC 2012
Table 11-6 (Page 7 of 7)	31 DEC 2012
Table 11-7 (Page 1 of 4)	31 DEC 2004
Table 11-7 (Page 2 of 4)	31 DEC 2004
Table 11-7 (Page 3 of 4)	31 DEC 2004
Table 11-7 (Page 4 of 4)	31 DEC 2004
Chapter 11 Figures	
Figure 11-1 (Page 1 of 1)	31 DEC 2000
Figure 11-2 (Page 1 of 1)	31 DEC 2000
Figure 11-3 (Page 1 of 1)	31 DEC 2000
Figure 11-4 (Page 1 of 1)	31 DEC 2011
Figure 11-5 (Page 1 of 1)	31 DEC 2000
Figure 11-6 (Page 1 of 1)	31 DEC 2000
Chapter 12	
12-i	31 DEC 2017
12-ii	31 DEC 2017
12.0-1	31 DEC 2017
12.0-2	31 DEC 2017
12.1-1	31 DEC 2017
12.1-2	31 DEC 2017
12.1-3	31 DEC 2017
12.1-4	31 DEC 2017
12.2-1	31 DEC 2017
12.2-2	31 DEC 2017
12.3-1	31 DEC 2017
12.3-2	31 DEC 2017
12.3-3	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
12.3-4	31 DEC 2017
12.4-1	31 DEC 2017
12.4-2	31 DEC 2017
12.4-3	31 DEC 2017
12.4-4	31 DEC 2017
12.4-5	31 DEC 2017
12.4-6	31 DEC 2017
12.4-7	31 DEC 2017
12.4-8	31 DEC 2017
12.4-9	31 DEC 2017
12.4-10	31 DEC 2017
Chapter 12 Tables	
Table 12-1 (Page 1 of 1)	31 DEC 2000
Table 12-2 (Page 1 of 2)	31 DEC 2000
Table 12-2 (Page 2 of 2)	31 DEC 2000
Table 12-3 (Page 1 of 2)	31 DEC 2004
Table 12-3 (Page 2 of 2)	31 DEC 2004
Chapter 12 Figures	
No Figures in Chapter 12	
Chapter 13	
13-i	31 DEC 2017
13-ii	31 DEC 2017
13-iii	31 DEC 2017
13-iv	31 DEC 2017
13.0-1	31 DEC 2017
13.0-2	31 DEC 2017
13.1-1	31 DEC 2017
13.1-2	31 DEC 2017
13.1-3	31 DEC 2017
13.1-4	31 DEC 2017
13.1-5	31 DEC 2017
13.1-6	31 DEC 2017
13.1-7	31 DEC 2017
13.1-8	31 DEC 2017
13.2-1	31 DEC 2017
13.2-2	31 DEC 2017
13.2-3	31 DEC 2017
13.2-4	31 DEC 2017
13.2-5	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
13.2-6	31 DEC 2017
13.2-7	31 DEC 2017
13.2-8	31 DEC 2017
13.3-1	31 DEC 2017
13.3-2	31 DEC 2017
13.4-1	31 DEC 2017
13.4-2	31 DEC 2017
13.5-1	31 DEC 2017
13.5-2	31 DEC 2017
13.5-3	31 DEC 2017
13.5-4	31 DEC 2017
13.5-5	31 DEC 2017
13.5-6	31 DEC 2017
13.5-7	31 DEC 2017
13.5-8	31 DEC 2017
13.6-1	31 DEC 2017
13.6-2	31 DEC 2017
Chapter 13 Tables	
Table 13-1 (Page 1 of 1)	31 DEC 2000
Table 13-2 (Page 1 of 1)	31 DEC 2000
Chapter 13 Figures	
Figure 13-1 (Page 1 of 1)	31 DEC 2014
Figure 13-2 (Page 1 of 1)	31 DEC 2000
Figure 13-3 (Page 1 of 1)	31 DEC 2014
Figure 13-4 (Page 1 of 1)	31 DEC 2014
Figure 13-5 (Page 1 of 1)	31 DEC 2000
Figure 13-6 (Page 1 of 1)	31 DEC 2000
Figure 13-7 (Page 1 of 1)	31 DEC 2012
Figure 13-8 (Page 1 of 1)	31 DEC 2014
Chapter 14	
14-i	31 DEC 2017
14-ii	31 DEC 2017
14.0-1	31 DEC 2017
14.0-2	31 DEC 2017
14.1-1	31 DEC 2017
14.1-2	31 DEC 2017
14.1-3	31 DEC 2017
14.1-4	31 DEC 2017
14.2-1	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
14.2-2	31 DEC 2017
14.3-1	31 DEC 2017
14.3-2	31 DEC 2017
14.4-1	31 DEC 2017
14.4-2	31 DEC 2017
14.5-1	31 DEC 2017
14.5-2	31 DEC 2017
14.6-1	31 DEC 2017
14.6-2	31 DEC 2017
Chapter 14 Tables	
Table 14-1 (Page 1 of 1)	31 DEC 2000
Table 14-2 (Page 1 of 1)	31 DEC 2000
Chapter 14 Figures	
No Figures in Chapter 14	
Chapter 15	
15-i	31 DEC 2017
15-ii	31 DEC 2017
15-iii	31 DEC 2017
15-iv	31 DEC 2017
15-v	31 DEC 2017
15-vi	31 DEC 2017
15-vii	31 DEC 2017
15-viii	31 DEC 2017
15-ix	31 DEC 2017
15-x	31 DEC 2017
15-xi	31 DEC 2017
15-xii	31 DEC 2017
15-xiii	31 DEC 2017
15-xiv	31 DEC 2017
15-xv	31 DEC 2017
15-xvi	31 DEC 2017
15-xvii	31 DEC 2017
15.0-1	31 DEC 2017
15.0-2	31 DEC 2017
15.1-1	31 DEC 2017
15.1-2	31 DEC 2017
15.1-3	31 DEC 2017
15.1-4	31 DEC 2017
15.1-5	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
15.1-6	31 DEC 2017
15.1-7	31 DEC 2017
15.1-8	31 DEC 2017
15.1-9	31 DEC 2017
15.1-10	31 DEC 2017
15.1-11	31 DEC 2017
15.1-12	31 DEC 2017
15.2-1	31 DEC 2017
15.2-2	31 DEC 2017
15.3-1	31 DEC 2017
15.3-2	31 DEC 2017
15.4-1	31 DEC 2017
15.4-2	31 DEC 2017
15.5-1	31 DEC 2017
15.5-2	31 DEC 2017
15.6-1	31 DEC 2017
15.6-2	31 DEC 2017
15.6-3	31 DEC 2017
15.6-4	31 DEC 2017
15.6-5	31 DEC 2017
15.6-6	31 DEC 2017
15.7-1	31 DEC 2017
15.7-2	31 DEC 2017
15.8-1	31 DEC 2017
15.8-2	31 DEC 2017
15.9-1	31 DEC 2017
15.9-2	31 DEC 2017
15.9-3	31 DEC 2017
15.9-4	31 DEC 2017
15.9-5	31 DEC 2017
15.9-6	31 DEC 2017
15.10-1	31 DEC 2017
15.10-2	31 DEC 2017
15.11-1	31 DEC 2017
15.11-2	31 DEC 2017
15.11-3	31 DEC 2017
15.11-4	31 DEC 2017
15.11-5	31 DEC 2017
15.11-6	31 DEC 2017
15.12-1	31 DEC 2017
15.12-2	31 DEC 2017
15.12-3	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
15.12-4	31 DEC 2017
15.13-1	31 DEC 2017
15.13-2	31 DEC 2017
15.13-3	31 DEC 2017
15.13-4	31 DEC 2017
15.13-5	31 DEC 2017
15.13-6	31 DEC 2017
15.14-1	31 DEC 2017
15.14-2	31 DEC 2017
15.14-3	31 DEC 2017
15.14-4	31 DEC 2017
15.14-5	31 DEC 2017
15.14-6	31 DEC 2017
15.14-7	31 DEC 2017
15.14-8	31 DEC 2017
15.14-9	31 DEC 2017
15.14-10	31 DEC 2017
15.14-11	31 DEC 2017
15.14-12	31 DEC 2017
15.14-13	31 DEC 2017
15.14-14	31 DEC 2017
15.14-15	31 DEC 2017
15.14-16	31 DEC 2017
15.14-17	31 DEC 2017
15.14-18	31 DEC 2017
15.14-19	31 DEC 2017
15.14-20	31 DEC 2017
15.14-21	31 DEC 2017
15.14-22	31 DEC 2017
15.15-1	31 DEC 2017
15.15-2	31 DEC 2017
15.15-3	31 DEC 2017
15.15-4	31 DEC 2017
15.16-1	31 DEC 2017
15.16-2	31 DEC 2017
15.16-3	31 DEC 2017
15.16-4	31 DEC 2017
15.16-5	31 DEC 2017
15.16-6	31 DEC 2017
15.16-7	31 DEC 2017
15.16-8	31 DEC 2017
15.17-1	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
15.17-2	31 DEC 2017
15.17-3	31 DEC 2017
15.17-4	31 DEC 2017
15.18-1	31 DEC 2017
15.18-2	31 DEC 2017
Chapter 15 Tables	
Table 15-1 (Page 1 of 1)	31 DEC 2016
Table 15-2 (Page 1 of 1)	31 DEC 2013
Table 15-3 (Page 1 of 1)	31 DEC 2008
Table 15-4 (Page 1 of 1)	31 DEC 2004
Table 15-5 (Page 1 of 1)	31 DEC 2003
Table 15-6 (Page 1 of 1)	31 DEC 2000
Table 15-7 - 15-14 (Page 1 of 1)	31 DEC 2000
Table 15-15 (Page 1 of 4)	31 DEC 2012
Table 15-15 (Page 2 of 4)	31 DEC 2012
Table 15-15 (Page 3 of 4)	31 DEC 2012
Table 15-15 (Page 4 of 4)	31 DEC 2012
Table 15-16 (Page 1 of 2)	31 DEC 2016
Table 15-16 (Page 2 of 2)	31 DEC 2016
Table 15-17 - 15-27 (Page 1 of 1)	31 DEC 2000
Table 15-28 (Page 1 of 1)	31 DEC 2015
Table 15-29 (Page 1 of 1)	31 DEC 2015
Table 15-30 (Page 1 of 1)	31 DEC 2015
Table 15-31 (Page 1 of 1)	31 DEC 2008
Table 15-32 (Page 1 of 2)	31 DEC 2015
Table 15-32 (Page 2 of 2)	31 DEC 2015
Table 15-33 (Page 1 of 1)	31 DEC 2013
Table 15-34 (Page 1 of 8)	31 DEC 2016
Table 15-34 (Page 2 of 8)	31 DEC 2016
Table 15-34 (Page 3 of 8)	31 DEC 2016
Table 15-34 (Page 4 of 8)	31 DEC 2016
Table 15-34 (Page 5 of 8)	31 DEC 2016
Table 15-34 (Page 6 of 8)	31 DEC 2016
Table 15-34 (Page 7 of 8)	31 DEC 2016
Table 15-34 (Page 8 of 8)	31 DEC 2016
Table 15-35 (Page 1 of 2)	31 DEC 2016
Table 15-35 (Page 2 of 2)	31 DEC 2016
Table 15-36 (Page 1 of 1)	31 DEC 2013
Table 15-37 (Page 1 of 1)	31 DEC 2008
Table 15-38 (Page 1 of 1)	31 DEC 2003
Table 15-39 (Page 1 of 1)	31 DEC 2015

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Table 15-40 (Page 1 of 1)	31 DEC 2008
Table 15-41 (Page 1 of 1)	31 DEC 2003
Table 15-42 (Page 1 of 1)	31 DEC 2003
Table 15-43 (Page 1 of 1)	31 DEC 2003
Table 15-44 (Page 1 of 1)	31 DEC 2008
Table 15-45 (Page 1 of 1)	31 DEC 2010
Table 15-46 (Page 1 of 1)	31 DEC 2013
Table 15-47 (Page 1 of 1)	31 DEC 2011
Table 15-48 (Page 1 of 1)	31 DEC 2003
Table 15-49 (Page 1 of 1)	31 DEC 2016
Table 15-50 (Page 1 of 2)	31 DEC 2009
Table 15-50 (Page 2 of 2)	31 DEC 2009
Table 15-51 (Page 1 of 1)	31 DEC 2009
Table 15-52 - 15-55 (Page 1 of 1)	31 DEC 2003
Table 15-56 (Page 1 of 1)	31 DEC 2014
Table 15-57 (Page 1 of 1)	31 DEC 2014
Table 15-58 (Page 1 of 1)	31 DEC 2003
Table 15-59 (Page 1 of 1)	31 DEC 2001
Table 15-60 (Page 1 of 1)	31 DEC 2014
Table 15-61 (Page 1 of 2)	31 DEC 2009
Table 15-61 (Page 2 of 2)	31 DEC 2009
Table 15-62 (Page 1 of 2)	31 DEC 2014
Table 15-62 (Page 2 of 2)	31 DEC 2014
Table 15-63 (Page 1 of 2)	31 DEC 2014
Table 15-63 (Page 2 of 2)	31 DEC 2014
Table 15-64 (Page 1 of 1)	31 DEC 2011
Table 15-65 (Page 1 of 1)	31 DEC 2012
Table 15-66 (Page 1 of 1)	31 DEC 2012
Table 15-67 (Page 1 of 1)	31 DEC 2014
Table 15-68 (Page 1 of 2)	31 DEC 2014
Table 15-68 (Page 2 of 2)	31 DEC 2014
Chapter 15 Figures	
Figure 15-1 (Page 1 of 1)	31 DEC 2013
Figure 15-2 (Page 1 of 1)	31 DEC 2013
Figure 15-3 (Page 1 of 1)	31 DEC 2013
Figure 15-4 (Page 1 of 1)	31 DEC 2013
Figure 15-5 (Page 1 of 1)	31 DEC 2013
Figure 15-6 (Page 1 of 1)	31 DEC 2013
Figure 15-7 - 15-10 (Page 1 of 1)	31 DEC 2000
Figure 15-11 (Page 1 of 1)	31 DEC 2003
Figure 15-12 (Page 1 of 1)	31 DEC 2003

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 15-13 (Page 1 of 1)	31 DEC 2003
Figure 15-14 (Page 1 of 1)	31 DEC 2003
Figure 15-15 (Page 1 of 1)	31 DEC 2003
Figure 15-16 (Page 1 of 1)	31 DEC 2003
Figure 15-17 (Page 1 of 1)	31 DEC 2003
Figure 15-18 (Page 1 of 1)	31 DEC 2015
Figure 15-19 (Page 1 of 1)	31 DEC 2008
Figure 15-20 (Page 1 of 1)	31 DEC 2008
Figure 15-21 (Page 1 of 1)	31 DEC 2008
Figure 15-22 (Page 1 of 1)	31 DEC 2008
Figure 15-23 (Page 1 of 1)	31 DEC 2008
Figure 15-24 (Page 1 of 1)	31 DEC 2013
Figure 15-25 (Page 1 of 1)	31 DEC 2003
Figure 15-26 (Page 1 of 1)	31 DEC 2010
Figure 15-27 (Page 1 of 1)	31 DEC 2010
Figure 15-28 (Page 1 of 1)	31 DEC 2010
Figure 15-29 (Page 1 of 1)	31 DEC 2013
Figure 15-30 (Page 1 of 1)	31 DEC 2013
Figure 15-31 (Page 1 of 1)	31 DEC 2013
Figure 15-32 (Page 1 of 1)	31 DEC 2013
Figure 15-33 (Page 1 of 1)	31 DEC 2013
Figure 15-34 (Page 1 of 1)	31 DEC 2013
Figure 15-35 (Page 1 of 1)	31 DEC 2013
Figure 15-36 (Page 1 of 1)	31 DEC 2013
Figure 15-37 - 15-39 (Page 1 of 1)	31 DEC 2000
Figure 15-40 (Page 1 of 1)	31 DEC 2003
Figure 15-41 (Page 1 of 1)	31 DEC 2003
Figure 15-42 (Page 1 of 1)	31 DEC 2003
Figure 15-43 (Page 1 of 1)	31 DEC 2003
Figure 15-44 (Page 1 of 1)	31 DEC 2000
Figure 15-45 - 15-49 (Page 1 of 1)	31 DEC 2000
Figure 15-50 (Page 1 of 1)	31 DEC 2008
Figure 15-51 - 15-79 (Page 1 of 2)	31 DEC 2000
Figure 15-51 - 15-79 (Page 2 of 2)	31 DEC 2000
Figure 15-80 (Page 1 of 1)	31 DEC 2000
Figure 15-81 - 15-88 (Page 1 of 1)	31 DEC 2000
Figure 15-89 (Page 1 of 1)	31 DEC 2003
Figure 15-90 - 15-111 (Page 1 of 2)	31 DEC 2000
Figure 15-90 - 15-111 (Page 2 of 2)	31 DEC 2000
Figure 15-112 (Page 1 of 1)	31 DEC 2014
Figure 15-113 (Page 1 of 1)	31 DEC 2003
Figure 15-114 (Page 1 of 1)	31 DEC 2013

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 15-115 (Page 1 of 1)	31 DEC 2015
Figure 15-116 (Page 1 of 1)	31 DEC 2015
Figure 15-117 (Page 1 of 1)	31 DEC 2015
Figure 15-118 (Page 1 of 1)	31 DEC 2015
Figure 15-119 (Page 1 of 1)	31 DEC 2003
Figure 15-120 (Page 1 of 1)	31 DEC 2003
Figure 15-121 (Page 1 of 1)	31 DEC 2003
Figure 15-122 (Page 1 of 1)	31 DEC 2003
Figure 15-123 (Page 1 of 1)	31 DEC 2013
Figure 15-124 (Page 1 of 1)	31 DEC 2003
Figure 15-125 (Page 1 of 1)	31 DEC 2003
Figure 15-126 (Page 1 of 1)	31 DEC 2003
Figure 15-127 (Page 1 of 1)	31 DEC 2003
Figure 15-128 (Page 1 of 1)	31 DEC 2003
Figure 15-129 (Page 1 of 1)	31 DEC 2013
Figure 15-130 (Page 1 of 1)	31 DEC 2003
Figure 15-131 (Page 1 of 1)	31 DEC 2003
Figure 15-132 (Page 1 of 1)	31 DEC 2003
Figure 15-133 (Page 1 of 1)	31 DEC 2003
Figure 15-134 (Page 1 of 1)	31 DEC 2003
Figure 15-135 (Page 1 of 1)	31 DEC 2008
Figure 15-136 (Page 1 of 1)	31 DEC 2008
Figure 15-137 (Page 1 of 1)	31 DEC 2008
Figure 15-138 (Page 1 of 1)	31 DEC 2008
Figure 15-139 (Page 1 of 1)	31 DEC 2008
Figure 15-140 (Page 1 of 1)	31 DEC 2008
Figure 15-141 (Page 1 of 1)	31 DEC 2011
Figure 15-142 (Page 1 of 1)	31 DEC 2000
Figure 15-143 (Page 1 of 1)	31 DEC 2010
Figure 15-144 (Page 1 of 1)	31 DEC 2013
Figure 15-145 (Page 1 of 1)	31 DEC 2013
Figure 15-146 (Page 1 of 1)	31 DEC 2013
Figure 15-147 (Page 1 of 1)	31 DEC 2013
Figure 15-148 (Page 1 of 1)	31 DEC 2013
Figure 15-149 (Page 1 of 1)	31 DEC 2013
Figure 15-150 (Page 1 of 1)	31 DEC 2011
Figure 15-151 (Page 1 of 1)	31 DEC 2011
Figure 15-152 (Page 1 of 1)	31 DEC 2011
Figure 15-153 (Page 1 of 1)	31 DEC 2011
Figure 15-154 (Page 1 of 1)	31 DEC 2011
Figure 15-155 (Page 1 of 1)	31 DEC 2011
Figure 15-156 (Page 1 of 1)	31 DEC 2011

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 15-157 (Page 1 of 1)	31 DEC 2003
Figure 15-158 (Page 1 of 1)	31 DEC 2003
Figure 15-159 (Page 1 of 1)	31 DEC 2003
Figure 15-160 (Page 1 of 1)	31 DEC 2003
Figure 15-161 (Page 1 of 1)	31 DEC 2003
Figure 15-162 (Page 1 of 1)	31 DEC 2003
Figure 15-163 (Page 1 of 1)	31 DEC 2003
Figure 15-164 (Page 1 of 1)	31 DEC 2003
Figure 15-165 (Page 1 of 1)	31 DEC 2003
Figure 15-166 (Page 1 of 1)	31 DEC 2003
Figure 15-167 (Page 1 of 1)	31 DEC 2013
Figure 15-168 (Page 1 of 1)	31 DEC 2016
Figure 15-169 (Page 1 of 1)	31 DEC 2016
Figure 15-170 (Page 1 of 1)	31 DEC 2016
Figure 15-171 (Page 1 of 1)	31 DEC 2016
Figure 15-172 (Page 1 of 1)	31 DEC 2016
Figure 15-173 (Page 1 of 1)	31 DEC 2016
Figure 15-174 (Page 1 of 1)	31 DEC 2014
Figure 15-175 (Page 1 of 1)	31 DEC 2003
Figure 15-176 (Page 1 of 1)	31 DEC 2001
Figure 15-177 (Page 1 of 1)	31 DEC 2003
Figure 15-178-15-212 (Page 1 of 2)	31 DEC 2014
Figure 15-178-15-212 (Page 2 of 2)	31 DEC 2014
Figure 15-213 (Page 1 of 1)	31 DEC 2015
Figure 15-214 (Page 1 of 1)	31 DEC 2015
Figure 15-215 (Page 1 of 1)	31 DEC 2015
Figure 15-216 (Page 1 of 1)	31 DEC 2015
Figure 15-217 (Page 1 of 1)	31 DEC 2015
Figure 15-218 (Page 1 of 1)	31 DEC 2015
Figure 15-219 (Page 1 of 1)	31 DEC 2011
Figure 15-220 (Page 1 of 1)	31 DEC 2011
Figure 15-221 (Page 1 of 1)	31 DEC 2011
Figure 15-222 (Page 1 of 1)	31 DEC 2011
Figure 15-223 (Page 1 of 1)	31 DEC 2011
Figure 15-224 (Page 1 of 1)	31 DEC 2011
Figure 15-225 (Page 1 of 1)	31 DEC 2011
Figure 15-226 (Page 1 of 1)	31 DEC 2011
Figure 15-227 (Page 1 of 1)	31 DEC 2011
Figure 15-228 (Page 1 of 1)	31 DEC 2011
Figure 15-229 (Page 1 of 1)	31 DEC 2011
Figure 15-230 (Page 1 of 1)	31 DEC 2011
Figure 15-231 (Page 1 of 1)	31 DEC 2011

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
Figure 15-232 (Page 1 of 1)	31 DEC 2011
Chapter 16	
16-i	31 DEC 2017
16.0-1	31 DEC 2017
16.0-2	31 DEC 2017
Chapter 17	
17-i	31 DEC 2017
17.0-1	31 DEC 2017
17.0-2	31 DEC 2017
Chapter 18	
18-i	31 DEC 2017
18-ii	31 DEC 2017
18-iii	31 DEC 2017
18.0-1	31 DEC 2017
18.0-2	31 DEC 2017
18.1-1	31 DEC 2017
18.1-2	31 DEC 2017
18.2-1	31 DEC 2017
18.2-2	31 DEC 2017
18.2-3	31 DEC 2017
18.2-4	31 DEC 2017
18.2-5	31 DEC 2017
18.2-6	31 DEC 2017
18.2-7	31 DEC 2017
18.2-8	31 DEC 2017
18.2-9	31 DEC 2017
18.2-10	31 DEC 2017
18.2-11	31 DEC 2017
18.2-12	31 DEC 2017
18.3-1	31 DEC 2017
18.3-2	31 DEC 2017
18.3-3	31 DEC 2017
18.3-4	31 DEC 2017
18.3-5	31 DEC 2017
18.3-6	31 DEC 2017
18.3-7	31 DEC 2017
18.3-8	31 DEC 2017
18.3-9	31 DEC 2017
18.3-10	31 DEC 2017

Oconee Nuclear Station
Updated Final Safety Analysis Report
2017 List of Effective Pages

Page	Effective Date
18.3-11	31 DEC 2017
18.3-12	31 DEC 2017
18.3-13	31 DEC 2017
18.3-14	31 DEC 2017
18.3-15	31 DEC 2017
18.3-16	31 DEC 2017
18.3-17	31 DEC 2017
18.3-18	31 DEC 2017
18.3-19	31 DEC 2017
18.3-20	31 DEC 2017
18.3-21	31 DEC 2017
18.3-22	31 DEC 2017
18.3-23	31 DEC 2017
18.3-24	31 DEC 2017
18.3-25	31 DEC 2017
18.3-26	31 DEC 2017
18.3-27	31 DEC 2017
18.3-28	31 DEC 2017
18.3-29	31 DEC 2017
18.3-30	31 DEC 2017
18.3-31	31 DEC 2017
18.3-32	31 DEC 2017
18.3-33	31 DEC 2017
18.3-34	31 DEC 2017
18.3-35	31 DEC 2017
18.3-36	31 DEC 2017
18.4-1	31 DEC 2017
18.4-2	31 DEC 2017
Chapter 18 Tables	
Table 18-1 (Page 1 of 4)	31 DEC 2014
Table 18-1 (Page 2 of 4)	31 DEC 2014
Table 18-1 (Page 3 of 4)	31 DEC 2014
Table 18-1 (Page 4 of 4)	31 DEC 2014

ONS 2018-026
Document Control Desk
June 29, 2018

Attachment 3

Update Insertion Instructions
For Hard Copy Distribution Only

Update Insertion Instructions
(for hardcopy distribution only)

1. Replace 2016 List of Effective Pages (LOEP) for Tables and Figures with the 2017 Tables and Figures.
2. Replace entire text portions for each chapter with the updated text portion (including the Table of Contents, List of Figures, and List of Tables).
3. Update Tables and Figures according to the instructions below:

	<u>Remove</u>	<u>Insert</u>
Chapter 1	Figure 1-8 (2000)	Figure 1-8 (2017)
Chapter 3	Table 3-68 (2016)	Table 3-68 (2017)
Chapter 5	Figure 5-6 (2004)	Figure 5-6 (2017)
Chapter 6	Table 6-22 (2013)	Table 6-22 (2017)
	Table 6-24 (2013)	Table 6-24 (2017)
	Table 6-25 (2013)	Table 6-25 (2017)
	Table 6-31 (2013)	Table 6-31 (2017)
	Figure 6-3 (2006)	Figure 6-3 (2017)
Chapter 8	Figure 8-5 (2013)	Figure 8-5 (2017)
Chapter 9	Table 9-6 (2011)	Table 9-6 (2017)
	Figure 9-5 (2015)	Figure 9-5 (2017)
	Figure 9-7 (2000)	Figure 9-7 (2017)
	Figure 9-11 (2016)	Figure 9-11 (2017)
	Figure 9-18 (2000)	Figure 9-18 (2017)

ONS 2018-026
Document Control Desk
June 29, 2018

Attachment 4
List of Removed Items

List of Removed Items

1. Section 9.6.3.1 - Flood Design

Redundant information was removed relating to design basis information. Clarifications were made throughout the paragraph to simplify the text and correct errors. (Change Package 17-002)

2. Section 13.1.3.1 - Minimum Qualification Requirements

Removed descriptions of specific positions which are in accordance with descriptions contained in ANSI/ANS 3.1-1978 (committed document of record) and / or those which are described in ONS Technical Specifications , Amendments 389, 391, and 390 issued 02/12/2015. (Change Package 17-017)

3. Section 3.8.1.4.2(3)(c) - Nonaxisymmetric Analysis

Removed conflicting temperature limits for the Main Steam penetrations. Temperature limits associated with penetration fan capability were removed and only those limits associated with the containment design basis as specified in Criterion 3.1.49 remain in place. (Change Package 17-018)

ONS 2018-026
Document Control Desk
June 29, 2018

Attachment 5

10 CFR 50.59 Summary Report

Oconee Nuclear Station
10 CFR 50.59 Summary Report

**Title: Update Four Software Applications Used in Reload Reactor Core
(AR 02081820)**

Summary:

Four software applications (computer codes) used in reload reactor core design and safety analysis for Oconee Nuclear Station (ONS) were updated to more recent versions supplied by software vendor Studsvik Scandpower. The current versions and the updated versions are shown in the table below. SIMULATE-3K is a transient version of the steady-state SIMULATE-3 software application.

Application	Current Vendor Version	Updated Vendor Version
CASMO-4	2.05.07	2.05.17
CMS-LINK	1.16.13 DUKE	1.27.04 DUKE
SIMULATE-3	6.07.09 MOX_4	6.09.33 DUK_1
SIMULATE-3K	2.03.07_DUKE	2.05.00_DUKE_1

This evaluation only covered the use of these four software applications for reload design and safety analyses in the Nuclear General Office (NGO) Nuclear Fuel Engineering (NFE) division. Note that the SIMULATE-3 software will be used in the GARDEL core monitoring software application currently in the Engineering Change (EC) process for installation at Oconee Nuclear Station (ONS). However, the use of SIMULATE-3 in GARDEL will be addressed in a separate 10 CFR 50.59 screen/evaluation.

No revision to the Oconee UFSAR, Tech Specs or Selected Licensee Commitments was required.

The proposed activity was determined to consist solely of changes to methods of evaluation. Therefore, the proposed activity does not require evaluation against the criteria in 10 CFR 50.59(c)(2)(i-vii).

None of the four updated software applications were new or different methods of evaluation. All of them were modifications to existing, approved methods of evaluation.

The justification to Question 8 showed that the results from the updated versions of the four software applications were essentially the same as the results from the earlier versions approved by the NRC in methodology reports DPC-NE-1006-PA and DPC-NE-3005-PA. A calculation file was written specifically to document the comparison of the results of the different software versions and to facilitate the justification. Therefore, no License Amendment was required.

Oconee Nuclear Station
10 CFR 50.59 Summary Report

Title: Changes to Oconee UFSAR Section 6.2 Due to Revised Calculations and Additional Reactor Building Cooling Unit Performance Data (AR 02083283)

Summary:

This activity involves changes to Oconee UFSAR Section 6.2.1.1.3. These changes are required to implement new safety analyses which incorporate changes to core decay heat reflecting 24-month fuel cycles, as well as changes to Reactor Building Cooling Unit (RBCU) performance data. The analysis results show the long-term containment pressure and temperature profiles for the limiting large-break Loss of Coolant Accident (LOCA).

The revised safety analyses for long-term LOCA containment response were performed using the NRC-approved analytical methodologies documented in Duke Energy methodology report DPC-NE-3003-PA. The containment pressure and temperature profiles are used as input for separate analyses to demonstrate certain equipment located in the Oconee Reactor Building which is required to mitigate the effects of a LOCA meet their environmental qualification (EQ) requirements, as described in the Oconee Environmental Qualification Manual (EQCM). However, all input values are bounded by Oconee Technical Specification values and other limiting documents (such as test acceptance criteria). These EQ analyses demonstrate that the equipment continues to meet all applicable EQ criteria.

The activity does not require any change to the Oconee Technical Specifications, Technical Specification Bases, or Selected Licensee Commitments. The Selected Licensee Commitments Manual was reviewed for impact. No Selected Licensee Commitments are impacted by this activity.

The proposed changes to Oconee UFSAR Section 6.2.1.1.3 have been evaluated under 10 CFR 50.59, and can be implemented without prior NRC approval.

Oconee Nuclear Station
10 CFR 50.59 Summary Report

**Title: EC112284 (Rev 006) 230KV YELLOW BUS DIFFERENTIAL UPGRADE
(AR 02089921)**

Summary:

In response to North American Electric Reliability Corporation (NERC) Standards, Oconee Nuclear Station (ONS) has performed upgrades to the Differential Protective Relaying for the Yellow Bus in the ONS 230 kV switchyard. The Yellow Bus is considered safety related because it provides an emergency power path from the Keowee Hydro Station to the ONS emergency busses. A new train of Differential Protective Relaying has been added that consists of Differential Protective Relays, lockout relays, auxiliary relays, a test block, and trip indicating relays. As a part of this modification, the lockout relay in the existing Differential Protective Relay train was replaced with a qualified, equivalent lockout relay. The new Differential Protective Relay train uses the same lockout relay. A second Differential Protective Relay train was added to eliminate a single point of protection (Single Point Vulnerability or SPV) failure, and to improve the reliability of the ONS 230kV switchyard. With a single Differential Protective Relay train, a phase to ground fault with the failure of the single train of Differential Protective Relaying would result in the de-energization of the ONS 230 kV switchyard and loss of generation from the ONS, Jocassee Hydro Station, and Keowee Hydro Station to the grid through the ONS switchyard. The addition of a second train of Differential Protective Relaying would ensure that with an assumed ground fault and a failure of one train of Differential Protective Relaying, the remaining Differential Protective Relaying train would isolate the Yellow Bus and not result in a loss of area generation. Isolation of the Yellow Bus would block the emergency power path from Keowee to the ONS emergency busses. A separate underground path from Keowee to the Oconee emergency busses would still be available. Inoperability of the Keowee overhead power path is addressed by the current ONS Technical Specifications. EC 112284 implements additional Yellow Bus protection. Neither valid actuation nor inadvertent actuation of the Differential Protective Relaying trains result in a station blackout or other analyzed event. An inadvertent trip of either train of Differential Protective Relaying would cause a loss of the overhead Keowee path. However, the additional Differential Protective Relaying train does not result in more than a minimal increase in the likelihood of occurrence of a malfunction of an SSC important to safety. Consequences of accidents previously described in the UFSAR are not increased, nor will the addition of a second Differential Protective Relaying train increase accident dose consequences through a malfunction of an SSC important to safety previously evaluated in the UFSAR. These activities do not create the possibility for an accident of a different type than any previously evaluated in the UFSAR, nor do they create a possibility for a malfunction of an SSC important to safety with a different result than any previously evaluated in the UFSAR. No design basis for a fission product barrier as described in the UFSAR is being exceeded or altered, and these activities do not result in a departure from a method of evaluation described in the UFSAR used in establishing the design bases or in the safety analyses.

Oconee Nuclear Station
10 CFR 50.59 Summary Report

Title: EC112282 (Rev 10) 230KV Red Bus Differential Upgrade (AR 2089919)

Summary:

EC-112282 Rev. 000 adds a redundant train of Differential Relaying protection for the Red Bus in the ONS 230 kV Switchyard.

EC-112282 Rev.002 revised the original 10 CFR 50.59 Evaluation to include discussion of partial turnovers after installation of the second channel of differential relaying for each Red Bus PCB breaker. Editorial changes were made to Questions 1 and 2 responses. A statement was added to the response to Question 2 to evaluate no adverse impacts to the Switchyard DC system. The List of References was updated to include the latest revisions.

EC-112282 Rev.010 required an editorial revision to the revised 10 CFR 50.59 evaluation to clarify the use of the North American Electric Reliability Corporation (NERC) Standards related to eliminating single points of protection (Single Point Vulnerability or SPV) failures in protective relaying circuits. This change was reviewed and was found to fall within the boundary of the 10 CFR 50.59 scope for changes made to the ONS station that did not require prior NRC approval.

Oconee Nuclear Station
10 CFR 50.59 Summary Report

Title: Updates to UFSAR Section 15.15.5 and Tables 15-15 and 15-50 for New Source Term Isotopics (AR 02122012)

Summary:

The Oconee Updated Final Safety Analysis Report (UFSAR) (Section 15.15.5, Tables 15-15 and 15-50) is being updated to reflect new source term isotopics for the Maximum Hypothetical Accident (MHA) and Rod Ejection Accident (REA) dose analyses in Chapter 15. These dose analyses and the corresponding source term isotopic calculation were revised to allow a higher end-of-cycle (EOC) core average burnup and revised power peaking factors to accommodate future core designs. These parameters are plant-specific inputs to the dose analyses. No changes to methodology were made. UFSAR-reported dose consequences did not increase. Therefore, it was concluded these UFSAR updates may be made without prior NRC approval.

Oconee Nuclear Station
10 CFR 50.59 Summary Report

Title: UFSAR Chapter 03 Change to Code of Record for 2 Reactor Building Penetrations (AR 02150552)

Summary:

Oconee UFSAR Section 3.8.1.5.4, Penetrations, is being revised to include the Main Steam and Feedwater Reactor Building penetrations (26/28 and 25/27 respectively) as being designed to ASME Section III, Subsections NC and NE, 1992 edition, including the 1992 addenda. A 50.59 Screen was performed under NCR 02150538. All Screen Questions were answered "No" with the exception of Question 3, which reads as follows: "Does the proposed activity involve revising or replacing an evaluation methodology described in the UFSAR that is used in establishing the design basis or used in the safety analysis." Question 3 on the 50.59 screen correlated to Question 8 in the 50.59 evaluation where the proposed activity can be evaluated to determine if the proposed activity has an adverse impact on the licensing basis, resulting in "a departure from a method of evaluation described in the UFSAR used in establishing the design bases or in the safety analyses."

Currently, UFSAR Section 3.8.1.5.4 states all penetrations (except 63 & 64) conform to applicable sections of ASA N6.2-1965 "Safety Standard for the Design, Fabrication, and Maintenance of Steel Containment Structures for Stationary Nuclear Power Reactors." ASA N6.2-1965 points to ASME Section III, 1963 for evaluation of containment penetrations. Similar methodologies, such as elastic plastic analyses, are referenced by both ASA N6.2-1965 and ASME Section III, Subsections NC and NE, 1992 Edition and Addenda; therefore, the methodologies remain unchanged. The techniques available in ASME Section III, 1992 Edition and Addenda are more detailed and explicit, which was determined to be more practical for use in current and future analyses related to these penetrations. Therefore, the analysis of the Main Steam and Feedwater penetrations was performed to this later ASME Section III Code in support of NCR 01905236.

The proposed activity is to revise UFSAR Section 3.8.1.5.4 to update the analysis code of record for these penetrations. The precedent was established when the UFSAR was updated several years ago to change the design code for penetrations 63 and 64 to ASME Code, Section III, Subsections NC and NE, 1992 Edition, including all 1992 Addenda. A re-analysis of the Main Steam and Feedwater penetrations was performed to this ASME Code Section III Edition and Addenda. As documented in calculation OSC-11500 (Rev 4), these penetrations are acceptable to perform their design function and meet the ASME Section III allowables. UFSAR Section 3.8.1.5.4 is being updated to change the analysis code of record for the Main Steam and Feedwater penetrations to ASME Section III, Subsections NC and NE, 1992 Edition including all 1992 Addenda. This activity does not involve a digital change nor any change to a digital component.

The 10 CFR 50.59 Evaluation concluded that there are no impacts to the ONS Technical Specifications. The 10 CFR 50.59 screen, documented in NCR 02150538, only identified an impact in Question 3 related to a change in methodology; therefore, 10 CFR 50.59 Evaluation questions 1-7 are not applicable, based on guidance from NEI-96-07. Upon further review, documented in 10 CFR 50.59 Evaluation Question 8, the proposed activity does not result in a departure from a method of evaluation described in the UFSAR used in establishing the design bases or in the safety analysis. The tech spec function, nor any safety limits, setpoints, nor any design basis limits are altered or impacted. ASME Section III, 1992 Edition is approved by the NRC, and is used for its intended application in accordance with the limitations defined in 10 CFR 50.55a. Therefore, based on the above evaluation, it is acceptable to revise the UFSAR to change the referenced code from ASA N6.2-1965 to ASME Section III, Subsections NC and NE, 1992 Edition and all 1992 Addenda.

Title: EC109523 - Rev 011 U1&2 BWST RECIRC ISOLATION VALVES (AR 02153894)

Summary:

The Nuclear Regulatory Commission (NRC) issued amendments for the Reverse Osmosis (RO) system by correspondence dated April 30, 2014. The connection from the BWSTs to the RO system includes redundant automatically actuated, safety-related, seismically qualified isolation valves between the RO system supply piping and the Borated Water Storage Tanks (BWSTs). These automatically actuated isolation valves also isolate the BWST recirculation pump from the BWST. The isolation valves actuate to close on declining BWST level when the BWST level setpoint is reached, thereby isolating RO and Spent Fuel Pool Cooling (SFPC) purification systems from BWST prior to entering Reactor Building Emergency Sump (RBES) recirculation phase following drawdown of the BWST. Isolation of RO and SFPC purification systems prevents unanalyzed consequences from leakage from BWST into those systems' piping when in the RBES recirculation phase. The redundant control circuitry of the isolation valves contains digital pressure transmitters which actuate on low BWST level to close the valves. Actuation of any one of 4 digital pressure transmitters will close both redundant valves and secured the BWST recirculation pump. Loss of power to the circuit, or loss of air to the valves will result in the valves closing.

The digital pressure transmitter used in this application has self-diagnostics and is configured to fail LO which closes the redundant valves. The digital pressure transmitter is demonstrated to be a very reliable device and has received a generic qualification from EPRI for use in mild environment nuclear applications.

The evaluation demonstrates that the proposed control circuitry for the redundant isolation valves will preserve the current licensing basis. The activity will not create more than a minimal increase in the frequency or consequences of accidents or malfunctions of SSCs important to safety. The proposed activity will not create the potential for a new type of unanalyzed event, has no impact on the fission product barriers and does not affect evaluation methodology. The answers to all eight evaluation questions is negative, no Tech Spec modification, deletion, or addition is required and no UFSAR revision is required. Therefore, under 10 CFR 50.59 it is permissible to implement this modification without prior approval from the NRC.