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ONS-2016-061

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June 30, 2016

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 Nos. 50-269, 50-270, 50-287
Updated Final Safety Analysis Report, Revision 25

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 25. The effective date of the UFSAR revision is December 31, 2015, as indicated at the bottom of each page. Changes made in Revision 25 are indicated by side bars.

The Oconee UFSAR, Revision 25, is being provided in a non-redacted version (for Nuclear Regulatory Commission 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 CD. 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 2015 UFSAR update. Attachment 5 provides the report of changes, tests, and experiments performed pursuant to 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 completed to determine whether any newly-identified SSCs existed in support of submitting UFSAR Revision 25. As a result of this review, there were no newly-identified SSCs for which aging management reviews or time-limited aging analyses would apply.

A053
NRK

This submittal document contains no new or revised regulatory commitments. If you have any questions regarding this submittal, please contact Kay Brocklesby at (864) 873-6661.

I declare under penalty of perjury that the foregoing is true and correct. Executed on June 30, 2016.

Sincerely,



Scott L. Batson
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, 2015 Update – Rev 25
2. CD containing Redacted Version of Oconee Nuclear Station Updated Final Safety Analysis Report, 2015 Update – Rev 25

ONS-2016-061
Document Control Desk
June 30, 2016
Page 3

cc (with attachments):

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

Mr. James R. Hall, Project Manager (CD)
U.S. Nuclear Regulatory Commission
11555 Rockville Pike
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Rockville, MD 20852

Mr. Eddy Crowe (hardcopy)
Senior Resident Inspector
Oconee Nuclear Station

ONS-2016-061
Document Control Desk
June 30, 2016

Attachment 1
Document Components on CD
(2 pages attached)

<u>Filename</u>	<u>File Size</u>
000 ONS UFSAR Rev 25 Title Page	99 KB
001 ONS UFSAR Rev 25 Ch 1 Text	334 KB
002 ONS UFSAR Rev 25 Ch 1 Tables	161 KB
003 ONS UFSAR Rev 25 Ch 1 Figures	4,270 KB
004 ONS UFSAR Rev 25 Ch 2 Text	959 KB
005 ONS UFSAR Rev 25 Ch 2 Tables	4,243 KB
006 ONS UFSAR Rev 25 Ch 2 Figures	7,069 KB
007 ONS UFSAR Rev 25 Ch 3 Text	2,184 KB
008 ONS UFSAR Rev 25 Ch 3 Tables	1,654 KB
009 ONS UFSAR Rev 25 Ch 3 Figures	5,875 KB
010 ONS UFSAR Rev 25 Ch 4 Text	904 KB
011 ONS UFSAR Rev 25 Ch 4 Tables	1,173 KB
012 ONS UFSAR Rev 25 Ch 4 Figures	1,247 KB
013 ONS UFSAR Rev 25 Ch 5 Text	955 KB
014 ONS UFSAR Rev 25 Ch 5 Tables	1,652 KB
015 ONS UFSAR Rev 25 Ch 5 Figures	4,283 KB
016 ONS UFSAR Rev 25 Ch 6 Text	929 KB
017 ONS UFSAR Rev 25 Ch 6 Tables	1,911 KB
018 ONS UFSAR Rev 25 Ch 6 Figures	4,953 KB
019 ONS UFSAR Rev 25 Ch 7 Text	1,514 KB
020 ONS UFSAR Rev 25 Ch 7 Tables	363 KB
021 ONS UFSAR Rev 25 Ch 7 Figures	8,483 KB
022 ONS UFSAR Rev 25 Ch 8 Text	559 KB
023 ONS UFSAR Rev 25 Ch 8 Tables	433 KB
024 ONS UFSAR Rev 25 Ch 8 Figures	1,574 KB
025 ONS UFSAR Rev 25 Ch 9 Text	1,437 KB
026 ONS UFSAR Rev 25 Ch 9 Tables	1,075 KB
027 ONS UFSAR Rev 25 Ch 9 Figures	13,256 KB

ONS-2016-061
Document Control Desk
June 30, 2016

<u>Filename</u>	<u>File Size</u>
028 ONS UFSAR Rev 25 Ch 10 Text	593 KB
029 ONS UFSAR Rev 25 Ch 10 Tables	143 KB
030 ONS UFSAR Rev 25 Ch 10 Figures	8,056 KB
031 ONS UFSAR Rev 25 Ch 11 Text	852 KB
032 ONS UFSAR Rev 25 Ch 11 Tables	469 KB
033 ONS UFSAR Rev 25 Ch 11 Figures	276 KB
034 ONS UFSAR Rev 25 Ch 12 Text	422 KB
035 ONS UFSAR Rev 25 Ch 12 Tables	211 KB
036 ONS UFSAR Rev 25 Ch 13 Text	681 KB
037 ONS UFSAR Rev 25 Ch 13 Tables	77 KB
038 ONS UFSAR Rev 25 Ch 13 Figures	362 KB
039 ONS UFSAR Rev 25 Ch 14 Text	429 KB
040 ONS UFSAR Rev 25 Ch 14 Tables	133 KB
041 ONS UFSAR Rev 25 Ch 15 Text	1,818 KB
042 ONS UFSAR Rev 25 Ch 15 Tables	2,161 KB
043 ONS UFSAR Rev 25 Ch 15 Figures	5,587 KB
044 ONS UFSAR Rev 25 Ch 16 Text	100 KB
045 ONS UFSAR Rev 25 Ch 17 Text	104 KB
046 ONS UFSAR Rev 25 Ch 18 Text	773 KB
047 ONS UFSAR Rev 25 Ch 18 Tables	106 KB

ONS-2016-061
Document Control Desk
June 30, 2016

Attachment 2
List of Effective Pages (LOEP) for Tables and Figures
(60 pages attached)

Page	Effective Date	Changed 2015 Update
Chapter 1		
1-1	31 DEC 2015	
1-2	31 DEC 2015	
1-3	31 DEC 2015	
1.0-1	31 DEC 2015	
1.0-2	31 DEC 2015	
1.1-1	31 DEC 2015	
1.1-2	31 DEC 2015	
1.2-1	31 DEC 2015	
1.2-2	31 DEC 2015	
1.2-3	31 DEC 2015	
1.2-4	31 DEC 2015	
1.3-1	31 DEC 2015	
1.3-2	31 DEC 2015	
1.4-1	31 DEC 2015	
1.4-2	31 DEC 2015	
Chapter 1 Tables		
Table 1-1 (Page 1 of 1)	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 2000	
Figure 1-9 (Page 1 of 1)	31 DEC 2000	
Chapter 2		
2-1	31 DEC 2015	
2-2	31 DEC 2015	
2-3	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
2-4	31 DEC 2015	
2-5	31 DEC 2015	
2-6	31 DEC 2015	
2-7	31 DEC 2015	
2-8	31 DEC 2015	
2-9	31 DEC 2015	
2-10	31 DEC 2015	
2-11	31 DEC 2015	
2-12	31 DEC 2015	
2.0-1	31 DEC 2015	
2.0-2	31 DEC 2015	
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2.3-11	31 DEC 2015	
2.3-12	31 DEC 2015	
2.3-13	31 DEC 2015	
2.3-14	31 DEC 2015	
2.3-15	31 DEC 2015	
2.3-16	31 DEC 2015	
2.3-17	31 DEC 2015	
2.3-18	31 DEC 2015	
2.3-19	31 DEC 2015	
2.3-20	31 DEC 2015	
2.3-21	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
2.3-22	31 DEC 2015	
2.4-1	31 DEC 2015	
2.4-2	31 DEC 2015	
2.4-3	31 DEC 2015	Yes
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2.5-7	31 DEC 2015	
2.5-8	31 DEC 2015	
2.5-9	31 DEC 2015	
2.5-10	31 DEC 2015	
2.5-11	31 DEC 2015	
2.5-12	31 DEC 2015	
2.5-13	31 DEC 2015	
2.5-14	31 DEC 2015	
2.5-15	31 DEC 2015	
2.5-16	31 DEC 2015	
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	

Page	Effective Date	Changed 2015 Update
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	
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	

Page	Effective Date	Changed 2015 Update
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	
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 2)	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 2-27 (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	

Page	Effective Date	Changed 2015 Update
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	
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 1)	31 DEC 2008	
Figure 2-12 (Page 1 of 1)	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	

Page	Effective Date	Changed 2015 Update
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	
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	

Page	Effective Date	Changed 2015 Update
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	
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	

Page	Effective Date	Changed 2015 Update
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		
3-1	31 DEC 2015	
3-2	31 DEC 2015	
3-3	31 DEC 2015	
3-4	31 DEC 2015	
3-5	31 DEC 2015	
3-6	31 DEC 2015	
3-7	31 DEC 2015	
3-8	31 DEC 2015	
3-9	31 DEC 2015	
3-10	31 DEC 2015	
3-11	31 DEC 2015	
3-12	31 DEC 2015	
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3.1-1	31 DEC 2015	
3.1-2	31 DEC 2015	
3.1-3	31 DEC 2015	
3.1-4	31 DEC 2015	
3.1-5	31 DEC 2015	
3.1-6	31 DEC 2015	
3.1-7	31 DEC 2015	
3.1-8	31 DEC 2015	
3.1-9	31 DEC 2015	Yes
3.1-10	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
3.1-11	31 DEC 2015	
3.1-12	31 DEC 2015	
3.1-13	31 DEC 2015	
3.1-14	31 DEC 2015	
3.1-15	31 DEC 2015	
3.1-16	31 DEC 2015	
3.1-17	31 DEC 2015	
3.1-18	31 DEC 2015	
3.1-19	31 DEC 2015	
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3.2-6	31 DEC 2015	
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3.4-2	31 DEC 2015	Yes
3.4-3	31 DEC 2015	Yes
3.4-4	31 DEC 2015	Yes
3.5-1	31 DEC 2015	
3.5-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
3.5-3	31 DEC 2015	
3.5-4	31 DEC 2015	
3.5-5	31 DEC 2015	
3.5-6	31 DEC 2015	
3.5-7	31 DEC 2015	Yes
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3.7-2	31 DEC 2015	
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3.7-4	31 DEC 2015	
3.7-5	31 DEC 2015	
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3.8-6	31 DEC 2015	
3.8-7	31 DEC 2015	
3.8-8	31 DEC 2015	
3.8-9	31 DEC 2015	
3.8-10	31 DEC 2015	
3.8-11	31 DEC 2015	
3.8-12	31 DEC 2015	
3.8-13	31 DEC 2015	
3.8-14	31 DEC 2015	
3.8-15	31 DEC 2015	
3.8-16	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
3.8-17	31 DEC 2015	
3.8-18	31 DEC 2015	
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Page	Effective Date	Changed 2015 Update
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Page	Effective Date	Changed 2015 Update
3.9-21	31 DEC 2015	
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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	
Table 3-12 (Page 3 of 5)	31 DEC 2000	
Table 3-12 (Page 4 of 5)	31 DEC 2000	

Page	Effective Date	Changed 2015 Update
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 2013	
Table 3-68 (Page 2 of 8)	31 DEC 2013	
Table 3-68 (Page 3 of 8)	31 DEC 2013	
Table 3-68 (Page 4 of 8)	31 DEC 2013	
Table 3-68 (Page 5 of 8)	31 DEC 2013	
Table 3-68 (Page 6 of 8)	31 DEC 2013	
Table 3-68 (Page 7 of 8)	31 DEC 2013	
Table 3-68 (Page 8 of 8)	31 DEC 2013	
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	

Page	Effective Date	Changed 2015 Update
Figure 3-10 (Page 1 of 1)	31 DEC 2006	
Figure 3-11 (Page 1 of 1)	31 DEC 2006	
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	

Page	Effective Date	Changed 2015 Update
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	
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		
4-1	31 DEC 2015	
4-2	31 DEC 2015	
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Page	Effective Date	Changed 2015 Update
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Page	Effective Date	Changed 2015 Update
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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 1)	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	

Page	Effective Date	Changed 2015 Update
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	
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Figure 4-9 (Page 1 of 1)	31 DEC 2000	
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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	
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Figure 4-35 - 4-36 (Page 1 of 1)	31 DEC 2000	

Page	Effective Date	Changed 2015 Update
Figure 4-37 (Page 1 of 1)	31 DEC 2000	
Figure 4-38 (Page 1 of 1)	31 DEC 2004	
Chapter 5		
5-1	31 DEC 2015	
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Page	Effective Date	Changed 2015 Update
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Page	Effective Date	Changed 2015 Update
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5.4-20	31 DEC 2015	
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	
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	

Page	Effective Date	Changed 2015 Update
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	
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 2004	
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	

Page	Effective Date	Changed 2015 Update
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 2000	
Figure 5-21 (Page 3 of 4)	31 DEC 2000	
Figure 5-21 (Page 4 of 4)	31 DEC 2000	
Figure 5-22 (Page 1 of 1)	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 3 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		
6-1	31 DEC 2015	
6-2	31 DEC 2015	
6-3	31 DEC 2015	
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Page	Effective Date	Changed 2015 Update
6.1-3	31 DEC 2015	
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6.3-12	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
6.3-13	31 DEC 2015	
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6.6-2	31 DEC 2015	
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 2004	
Table 6-4 (Page 2 of 2)	31 DEC 2004	
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	
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	

Page	Effective Date	Changed 2015 Update
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	Yes
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 2013	
Table 6-23 (Page 1 of 1)	31 DEC 2013	
Table 6-24 (Page 1 of 1)	31 DEC 2013	
Table 6-25 (Page 1 of 1)	31 DEC 2013	
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 10)	31 DEC 2003	
Table 6-30 (Page 4 of 40)	31 DEC 2003	
Table 6-30 (Page 5 of 40)	31 DEC 2003	
Table 6-30 (Page 6 of 40)	31 DEC 2003	

Page	Effective Date	Changed 2015 Update
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 10)	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 10)	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 10)	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 2013	
Table 6-31 (Page 2 of 2)	31 DEC 2013	
Table 6-32 (Page 1 of 5)	31 DEC 2003	
Table 6-32 (Page 2 of 5)	31 DEC 2003	

Page	Effective Date	Changed 2015 Update
Table 6-32 (Page 3 of 5)	31 DEC 2003	
Table 6-32 (Page 4 of 5)	31 DEC 2003	
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 2006	
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	

Page	Effective Date	Changed 2015 Update
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	
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		
7-1	31 DEC 2015	
7-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
7-3	31 DEC 2015	
7-4	31 DEC 2015	
7-5	31 DEC 2015	
7-6	31 DEC 2015	
7-7	31 DEC 2015	
7.0-1	31 DEC 2015	
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7.4-3	31 DEC 2015	
7.4-4	31 DEC 2015	
7.4-5	31 DEC 2015	
7.4-6	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
7.4-7	31 DEC 2015	
7.4-8	31 DEC 2015	
7.4-9	31 DEC 2015	
7.4-10	31 DEC 2015	
7.4-11	31 DEC 2015	
7.4-12	31 DEC 2015	
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7.5-24	31 DEC 2015	
7.5-25	31 DEC 2015	
7.5-26	31 DEC 2015	
7.6-1	31 DEC 2015	
7.6-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
7.6-3	31 DEC 2015	
7.6-4	31 DEC 2015	
7.6-5	31 DEC 2015	
7.6-6	31 DEC 2015	
7.6-7	31 DEC 2015	
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7.9-6	31 DEC 2015	
7.10-1	31 DEC 2015	
7.10-2	31 DEC 2015	
7.11-1	31 DEC 2015	
7.11-2	31 DEC 2015	
Chapter 7 Tables		

Page	Effective Date	Changed 2015 Update
Table 7-1 (Page 1 of 1)	31 DEC 2012	
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 2006	
Chapter 7 Figures		
Figure 7-1 (Page 1 of 16)	31 DEC 2013	
Figure 7-2 (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	
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	

Page	Effective Date	Changed 2015 Update
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		
8-1	31 DEC 2015	
8-2	31 DEC 2015	
8-3	31 DEC 2015	
8-4	31 DEC 2015	
8.0-1	31 DEC 2015	
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8.3-2	31 DEC 2015	
8.3-3	31 DEC 2015	
8.3-4	31 DEC 2015	
8.3-5	31 DEC 2015	
8.3-6	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
8.3-7	31 DEC 2015	
8.3-8	31 DEC 2015	
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8.3-10	31 DEC 2015	
8.3-11	31 DEC 2015	
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8.3-18	31 DEC 2015	
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8.4-1	31 DEC 2015	
8.4-2	31 DEC 2015	
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	
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 1)	31 DEC 2014	
Table 8-5 (Page 1 of 3)	31 DEC 2000	
Table 8-5 (Page 2 of 3)	31 DEC 2000	
Table 8-5 (Page 3 of 3)	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	Yes
Figure 8-2 (Page 1 of 1)	31 DEC 2015	Yes
Figure 8-3 (Page 1 of 2)	31 DEC 2015	Yes
Figure 8-3 (Page 2 of 2)	31 DEC 2015	Yes
Figure 8-4 (Page 1 of 3)	31 DEC 2015	Yes
Figure 8-4 (Page 2 of 3)	31 DEC 2015	Yes

Page	Effective Date	Changed 2015 Update
Figure 8-4 (Page 3 of 3)	31 DEC 2015	Yes
Figure 8-5 (Page 1 of 1)	31 DEC 2013	
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		
9-1	31 DEC 2015	
9-2	31 DEC 2015	
9-3	31 DEC 2015	
9-4	31 DEC 2015	
9-5	31 DEC 2015	
9-6	31 DEC 2015	
9-7	31 DEC 2015	
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9.1-16	31 DEC 2015	
9.1-17	31 DEC 2015	
9.1-18	31 DEC 2015	
9.1-19	31 DEC 2015	
9.1-20	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
9.1-21	31 DEC 2015	
9.1-22	31 DEC 2015	
9.1-23	31 DEC 2015	
9.1-24	31 DEC 2015	
9.1-25	31 DEC 2015	
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9.3-13	31 DEC 2015	
9.3-14	31 DEC 2015	
9.3-15	31 DEC 2015	
9.3-16	31 DEC 2015	
9.4-1	31 DEC 2015	
9.4-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
9.4-3	31 DEC 2015	
9.4-4	31 DEC 2015	
9.4-5	31 DEC 2015	
9.4-6	31 DEC 2015	
9.4-7	31 DEC 2015	
9.4-8	31 DEC 2015	
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9.6-6	31 DEC 2015	
9.6-7	31 DEC 2015	
9.6-8	31 DEC 2015	
9.6-9	31 DEC 2015	
9.6-10	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
9.6-11	31 DEC 2015	
9.6-12	31 DEC 2015	
9.6-13	31 DEC 2015	
9.6-14	31 DEC 2015	
9.6-15	31 DEC 2015	
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9.7-8	31 DEC 2015	
9.7-9	31 DEC 2015	
9.7-10	31 DEC 2015	
9.7-11	31 DEC 2015	
9.7-12	31 DEC 2015	
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	Yes
Table 9-2 (Page 2 of 2)	31 DEC 2015	Yes
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 2011	
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	

Page	Effective Date	Changed 2015 Update
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	
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	Yes
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 2015	Yes
Figure 9-6 (Page 1 of 1)	31 DEC 2000	
Figure 9-7 (Page 1 of 2)	31 DEC 2000	
Figure 9-7 (Page 2 of 2)	31 DEC 2000	
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 2006	
Figure 9-11 (Page 1 of 1)	31 DEC 2007	
Figure 9-12 (Page 1 of 1)	31 DEC 2015	Yes
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	

Page	Effective Date	Changed 2015 Update
Figure 9-16 (Page 1 of 1)	31 DEC 2007	
Figure 9-17 (Page 1 of 1)	31 DEC 2015	Yes
Figure 9-18 (Page 1 of 1)	31 DEC 2000	
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	
Figure 9-23 (Page 1 of 1)	31 DEC 2000	
Figure 9-24 (Page 1 of 1)	31 DEC 2015	Yes
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	Yes
Figure 9-45 (Page 1 of 1)	31 DEC 2015	Yes
Figure 9-46 (Page 1 of 1)	31 DEC 2015	Yes
Chapter 10		
10-1	31 DEC 2015	
10-2	31 DEC 2015	
10-3	31 DEC 2015	
10-4	31 DEC 2015	
10.0-1	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
10.0-2	31 DEC 2015	
10.1-1	31 DEC 2015	Yes
10.1-2	31 DEC 2015	
10.2-1	31 DEC 2015	
10.2-2	31 DEC 2015	
10.2-3	31 DEC 2015	
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10.3-2	31 DEC 2015	
10.3-3	31 DEC 2015	
10.3-4	31 DEC 2015	
10.3-5	31 DEC 2015	
10.3-6	31 DEC 2015	
10.4-1	31 DEC 2015	
10.4-2	31 DEC 2015	
10.4-3	31 DEC 2015	
10.4-4	31 DEC 2015	
10.4-5	31 DEC 2015	
10.4-6	31 DEC 2015	
10.4-7	31 DEC 2015	
10.4-8	31 DEC 2015	
10.4-9	31 DEC 2015	
10.4-10	31 DEC 2015	
10.4-11	31 DEC 2015	
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10.4-16	31 DEC 2015	
10.4-17	31 DEC 2015	Yes
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10.4-20	31 DEC 2015	
10.4-21	31 DEC 2015	
10.4-22	31 DEC 2015	
10.4-23	31 DEC 2015	Yes
10.4-24	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
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	Yes
Figure 10-3 (Page 1 of 1)	31 DEC 2000	
Figure 10-4 (Page 1 of 1)	31 DEC 2015	Yes
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	Yes
Figure 10-8 (Page 1 of 1)	31 DEC 2015	Yes
Figure 10-9 (Page 1 of 2)	31 DEC 2004	
Figure 10-9 (Page 2 of 2)	31 DEC 2004	
Chapter 11		
11-1	31 DEC 2015	
11-2	31 DEC 2015	
11-3	31 DEC 2015	
11-4	31 DEC 2015	
11.0-1	31 DEC 2015	
11.0-2	31 DEC 2015	
11.1-1	31 DEC 2015	
11.1-2	31 DEC 2015	
11.2-1	31 DEC 2015	
11.2-2	31 DEC 2015	
11.2-3	31 DEC 2015	
11.2-4	31 DEC 2015	
11.3-1	31 DEC 2015	
11.3-2	31 DEC 2015	
11.3-3	31 DEC 2015	
11.3-4	31 DEC 2015	
11.4-1	31 DEC 2015	
11.4-2	31 DEC 2015	
11.5-1	31 DEC 2015	
11.5-2	31 DEC 2015	
11.5-3	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
11.5-4	31 DEC 2015	
11.5-5	31 DEC 2015	
11.5-6	31 DEC 2015	
11.6-1	31 DEC 2015	
11.6-2	31 DEC 2015	
11.6-3	31 DEC 2015	
11.6-4	31 DEC 2015	
11.6-5	31 DEC 2015	
11.6-6	31 DEC 2015	
11.6-7	31 DEC 2015	
11.6-8	31 DEC 2015	
11.6-9	31 DEC 2015	
11.6-10	31 DEC 2015	
11.6-11	31 DEC 2015	
11.5-12	31 DEC 2015	
11.7-1	31 DEC 2015	
11.7-2	31 DEC 2015	
11.8-1	31 DEC 2015	
11.8-2	31 DEC 2015	
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	

Page	Effective Date	Changed 2015 Update
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		
12-1	31 DEC 2015	
12-2	31 DEC 2015	
12.0-1	31 DEC 2015	
12.0-2	31 DEC 2015	
12.1-1	31 DEC 2015	
12.1-2	31 DEC 2015	
12.1-3	31 DEC 2015	
12.1-4	31 DEC 2015	
12.2-1	31 DEC 2015	
12.2-2	31 DEC 2015	
12.3-1	31 DEC 2015	
12.3-2	31 DEC 2015	
12.3-3	31 DEC 2015	
12.3-4	31 DEC 2015	
12.4-1	31 DEC 2015	
12.4-2	31 DEC 2015	
12.4-3	31 DEC 2015	
12.4-4	31 DEC 2015	
12.4-5	31 DEC 2015	
12.4-6	31 DEC 2015	
12.4-7	31 DEC 2015	
12.4-8	31 DEC 2015	
12.4-9	31 DEC 2015	
12.4-10	31 DEC 2015	
Chapter 12 Tables		
Table 12-1 (Page 1 of 1)	31 DEC 2000	
Table 12-2 (Page 1 of 2)	31 DEC 2000	

Page	Effective Date	Changed 2015 Update
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		
13-1	31 DEC 2015	
13-2	31 DEC 2015	
13-3	31 DEC 2015	
13-4	31 DEC 2015	
13.0-1	31 DEC 2015	
13.0-2	31 DEC 2015	
13.1-1	31 DEC 2015	
13.1-2	31 DEC 2015	
13.1-3	31 DEC 2015	
13.1-4	31 DEC 2015	
13.1-5	31 DEC 2015	
13.1-6	31 DEC 2015	
13.1-7	31 DEC 2015	
13.1-8	31 DEC 2015	
13.1-9	31 DEC 2015	
13.1-10	31 DEC 2015	
13.2-1	31 DEC 2015	
13.2-2	31 DEC 2015	
13.2-3	31 DEC 2015	
13.2-4	31 DEC 2015	
13.2-5	31 DEC 2015	
13.2-6	31 DEC 2015	
13.3-1	31 DEC 2015	
13.3-2	31 DEC 2015	
13.4-1	31 DEC 2015	
13.4-2	31 DEC 2015	
13.4-3	31 DEC 2015	
13.4-4	31 DEC 2015	
13.5-1	31 DEC 2015	
13.5-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
13.5-3	31 DEC 2015	
13.5-4	31 DEC 2015	
13.5-5	31 DEC 2015	
13.5-6	31 DEC 2015	
13.5-7	31 DEC 2015	
13.5-8	31 DEC 2015	
13.6-1	31 DEC 2015	
13.6-2	31 DEC 2015	
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		
14-1	31 DEC 2015	
14-2	31 DEC 2015	
14.0-1	31 DEC 2015	
14.0-2	31 DEC 2015	
14.1-1	31 DEC 2015	
14.1-2	31 DEC 2015	
14.1-3	31 DEC 2015	
14.1-4	31 DEC 2015	
14.2-1	31 DEC 2015	
14.2-2	31 DEC 2015	
14.3-1	31 DEC 2015	
14.3-2	31 DEC 2015	
14.4-1	31 DEC 2015	
14.4-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
14.5-1	31 DEC 2015	
14.5-2	31 DEC 2015	
14.6-1	31 DEC 2015	
14.6-2	31 DEC 2015	
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 12		
Chapter 15		
15-1	31 DEC 2015	
15-2	31 DEC 2015	
15-3	31 DEC 2015	
15-4	31 DEC 2015	
15-5	31 DEC 2015	
15-6	31 DEC 2015	
15-7	31 DEC 2015	
15-8	31 DEC 2015	
15-9	31 DEC 2015	
15-10	31 DEC 2015	
15-11	31 DEC 2015	
15-12	31 DEC 2015	
15-13	31 DEC 2015	
15-14	31 DEC 2015	
15-15	31 DEC 2015	
15-16	31 DEC 2015	
15-17	31 DEC 2015	
15.0-1	31 DEC 2015	
15.0-2	31 DEC 2015	
15.1-1	31 DEC 2015	
15.1-2	31 DEC 2015	
15.1-3	31 DEC 2015	
15.1-4	31 DEC 2015	
15.1-5	31 DEC 2015	
15.1-6	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
15.1-7	31 DEC 2015	
15.1-8	31 DEC 2015	
15.1-9	31 DEC 2015	
15.1-10	31 DEC 2015	
15.1-11	31 DEC 2015	
15.1-12	31 DEC 2015	
15.2-1	31 DEC 2015	
15.2-2	31 DEC 2015	
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15.6-6	31 DEC 2015	
15.7-1	31 DEC 2015	
15.7-2	31 DEC 2015	
15.8-1	31 DEC 2015	
15.8-2	31 DEC 2015	
15.9-1	31 DEC 2015	
15.9-2	31 DEC 2015	
15.9-3	31 DEC 2015	
15.9-4	31 DEC 2015	
15.10-1	31 DEC 2015	
15.10-2	31 DEC 2015	
15.11-1	31 DEC 2015	
15.11-2	31 DEC 2015	
15.11-3	31 DEC 2015	
15.11-4	31 DEC 2015	
15.11-5	31 DEC 2015	
15.11-6	31 DEC 2015	
15.12-1	31 DEC 2015	
15.12-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
15.12-3	31 DEC 2015	
15.12-4	31 DEC 2015	
15.13-1	31 DEC 2015	
15.13-2	31 DEC 2015	
15.13-3	31 DEC 2015	
15.13-4	31 DEC 2015	
15.13-5	31 DEC 2015	
15.13-6	31 DEC 2015	
15.14-1	31 DEC 2015	
15.14-2	31 DEC 2015	
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15.15-2	31 DEC 2015	
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15.16-3	31 DEC 2015	
15.16-4	31 DEC 2015	
15.16-5	31 DEC 2015	
15.16-6	31 DEC 2015	Yes
15.16-7	31 DEC 2015	Yes
15.16-8	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
15.17-1	31 DEC 2015	Yes
15.17-2	31 DEC 2015	
15.17-3	31 DEC 2015	
15.17-4	31 DEC 2015	
15.18-1	31 DEC 2015	
15.18-2	31 DEC 2015	
Chapter 15 Tables		
Table 15-1 (Page 1 of 1)	31 DEC 2010	
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 2012	
Table 15-16 (Page 2 of 2)	31 DEC 2012	
Table 15-17-15-27 (Page 1 of 1)	31 DEC 2000	
Table 15-28 (Page 1 of 1)	31 DEC 2015	Yes
Table 15-29 (Page 1 of 1)	31 DEC 2015	Yes
Table 15-30 (Page 1 of 1)	31 DEC 2015	Yes
Table 15-31 (Page 1 of 1)	31 DEC 2008	
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Table 15-32 (Page 2 of 2)	31 DEC 2015	Yes
Table 15-33 (Page 1 of 1)	31 DEC 2013	
Table 15-34 (Page 1 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 2 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 3 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 4 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 5 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 6 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 7 of 8)	31 DEC 2015	Yes
Table 15-34 (Page 8 of 8)	31 DEC 2015	Yes
Table 15-35 (Page 1 of 2)	31 DEC 2012	

Page	Effective Date	Changed 2015 Update
Table 15-35 (Page 2 of 2)	31 DEC 2012	
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	Yes
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 2008	
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		

Page	Effective Date	Changed 2015 Update
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	
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	Yes
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	

Page	Effective Date	Changed 2015 Update
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	
Figure 15-115 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-116 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-117 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-118 (Page 1 of 1)	31 DEC 2015	Yes
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	

Page	Effective Date	Changed 2015 Update
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	
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 2003	
Figure 15-169 (Page 1 of 1)	31 DEC 2003	
Figure 15-170 (Page 1 of 1)	31 DEC 2011	
Figure 15-171 (Page 1 of 1)	31 DEC 2003	
Figure 15-172 (Page 1 of 1)	31 DEC 2003	
Figure 15-173 (Page 1 of 1)	31 DEC 2003	
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	

Page	Effective Date	Changed 2015 Update
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	Yes
Figure 15-214 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-215 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-216 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-217 (Page 1 of 1)	31 DEC 2015	Yes
Figure 15-218 (Page 1 of 1)	31 DEC 2015	Yes
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	
Figure 15-232 (Page 1 of 1)	31 DEC 2011	
Chapter 16		
16-1	31 DEC 2015	
16.0-1	31 DEC 2015	
16.0-2	31 DEC 2015	
Chapter 17		
17-1	31 DEC 2015	
17.0-1	31 DEC 2015	
Chapter 18		
18-1	31 DEC 2015	
18-2	31 DEC 2015	
18-3	31 DEC 2015	
18.0-1	31 DEC 2015	
18.0-2	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
18.1-1	31 DEC 2015	
18.1-2	31 DEC 2015	
18.2-1	31 DEC 2015	
18.2-2	31 DEC 2015	
18.2-3	31 DEC 2015	
18.2-4	31 DEC 2015	
18.2-5	31 DEC 2015	
18.2-6	31 DEC 2015	
18.2-7	31 DEC 2015	
18.2-8	31 DEC 2015	
18.2-9	31 DEC 2015	
18.2-10	31 DEC 2015	
18.2-11	31 DEC 2015	
18.2-12	31 DEC 2015	
18.3-1	31 DEC 2015	
18.3-2	31 DEC 2015	
18.3-3	31 DEC 2015	
18.3-4	31 DEC 2015	
18.3-5	31 DEC 2015	
18.3-6	31 DEC 2015	
18.3-7	31 DEC 2015	
18.3-8	31 DEC 2015	
18.3-9	31 DEC 2015	
18.3-10	31 DEC 2015	
18.3-11	31 DEC 2015	
18.3-12	31 DEC 2015	
18.3-13	31 DEC 2015	
18.3-14	31 DEC 2015	
18.3-15	31 DEC 2015	
18.3-16	31 DEC 2015	
18.3-17	31 DEC 2015	
18.3-18	31 DEC 2015	
18.3-19	31 DEC 2015	
18.3-20	31 DEC 2015	
18.3-21	31 DEC 2015	
18.3-22	31 DEC 2015	
18.3-23	31 DEC 2015	
18.3-24	31 DEC 2015	

Page	Effective Date	Changed 2015 Update
18.3-25	31 DEC 2015	
18.3-26	31 DEC 2015	
18.3-27	31 DEC 2015	
18.3-28	31 DEC 2015	
18.3-29	31 DEC 2015	
18.3-30	31 DEC 2015	
18.3-31	31 DEC 2015	
18.3-32	31 DEC 2015	
18.3-33	31 DEC 2015	
18.3-34	31 DEC 2015	
18.3-35	31 DEC 2015	
18.3-36	31 DEC 2015	
18.4-1	31 DEC 2015	
18.4-2	31 DEC 2015	
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-2016-061
Document Control Desk
June 30, 2016

Attachment 3
Update Insertion Instructions
(for hardcopy distribution only)
(2 pages attached)

Update Insertion Instructions
(for hardcopy distribution only)

1. Replace 2014 List of Effective Pages (LOEP) for Tables and Figures with the 2015 LOEP for 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 6	Table 6-19 (1 page)	Table 6-19 (1 page)
Chapter 8	Figure 8-1 (1 page) Figure 8-2 (1 page) Figure 8-3 (2 pages) Figure 8-4 (3 pages)	Figure 8-1 (1 page) Figure 8-2 (1 page) Figure 8-3 (2 pages) Figure 8-4 (3 pages)
Chapter 9	Table 9-2 (2 pages) Table 9-20 (1 page) Figure 9-5 (1 page) Figure 9-12 (1 page) Figure 9-17 (1 page) Figure 9-24 (1 page) Figure 9-44 (1 page) Figure 9-45 (1 page) Figure 9-46 (1 page)	Table 9-2 (2 pages) Table 9-20 (1 page) Figure 9-5 (1 page) Figure 9-12 (1 page) Figure 9-17 (1 page) Figure 9-24 (1 page) Figure 9-44 (1 page) Figure 9-45 (1 page) Figure 9-46 (1 page)
Chapter 10	Figure 10-2 (1 page) Figure 10-4 (1 page) Figure 10-7 (1 page) Figure 10-8 (1 page)	Figure 10-2 (1 page) Figure 10-4 (1 page) Figure 10-7 (1 page) Figure 10-8 (1 page)
Chapter 15	Table 15-28 (1 page) Table 15-29 (1 page) Table 15-30 (1 page) Table 15-32 (2 pages) Table 15-34 (8 pages) Table 15-39 (1 page) Figure 15-18 (1 page) Figure 15-115 (1 page) Figure 15-116 (1 page) Figure 15-117 (1 page) Figure 15-118 (1 page)	Table 15-28 (1 page) Table 15-29 (1 page) Table 15-30 (1 page) Table 15-32 (2 pages) Table 15-34 (8 pages) Table 15-39 (1 page) Figure 15-18 (1 page) Figure 15-115 (1 page) Figure 15-116 (1 page) Figure 15-117 (1 page) Figure 15-118 (1 page)

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Figure 15-213 (1 page)
Figure 15-214 (1 page)
Figure 16-215 (1 page)
Figure 15-216 (1 page)
Figure 15-217 (1 page)
Figure 15-218 (1 page)

Insert

Figure 15-213 (1 page)
Figure 15-214 (1 page)
Figure 16-215 (1 page)
Figure 15-216 (1 page)
Figure 15-217 (1 page)
Figure 15-218 (1 page)

ONS-2016-061
Document Control Desk
June 30, 2016

Attachment 4
List of Removed Items
(1 page attached)

List of Removed Items

1. Section 6.5.1.4 – Test and Inspections

Deleted the last paragraph which was a single sentence which stated, "Testing and inspection of the system is as required by the Technical Specifications."

This change is based on the NRC-approved License Amendment No. 338, 339, and 339; Adoption of Alternate Source Term, approved 06/01/2004. This amendment deleted information relative to reactor building penetration room ventilation.

2. Section 15.16.7 – References

Deleted Reference 17, "OSC – 123 (rev. 1), "Activity on Filter RB Hydrogen Purge"

This change is based on NRC exemption from the hydrogen recombiner requirements in SER dated 07/17/2001.

ONS-2016-061
Document Control Desk
June 30, 2016

Attachment 5
10 CFR 50.59 Report
(7 pages attached)

Title: EC 112282 – Revision 0 - 230KV Red Bus Differential Upgrade – Add a Second Set of Bus Differential relay Protection (AR 1348448 / 448448)

Summary:

Engineering Change (EC)-112282 Rev. 0 adds a redundant train of differential relaying protection for the red bus in the ONS 230 kV Switchyard. With the existing design, only a single train of differential relaying protection exists on the red bus. With the existing design a relay failure can result in a large loss of localized generation. The initiating event would be a phase to ground bus fault with failed bus differential relaying. A phase to ground fault with the failure of the associated single phase differential relay to operate would be expected to result in the de-energizing of the ONS 230kV switchyard by time delayed relays. At a minimum, a loss of generation for ONS Units 1 and 2 and a loss of Keowee Units 1 and 2 would be expected. After the redundant train of differential relay is installed and tested it will provide additional protection so that the loss of a single train, coupled with a fault within the protected zone, will not lead to such adverse effects.

This change is considered a NERC (Northeast Electric Reliability Council) requirement since NERC expects relaying designs at power generation plants to preclude single failures that affect the operation of the plant or the external grid. 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.

Title: Change from End-of-Cycle Hot Full Power Moderator Temperature Coefficient of -35.0 pcm/F to -38.0 pcm/F (AR 1350547 / 450547)

Summary:

The proposed activities are revisions to the Oconee Nuclear Station (ONS) UFSAR Table 15-34 and UFSAR Section 15.5 including associated Tables and Figures. End-of-Cycle (EOC) hot full power Moderator Temperature Coefficient (MTC) values were changed from $-35.0E-5 \Delta k/k/^\circ F$ to $-38.0E-5 \Delta k/k/^\circ F$ for both UFSAR Section 15.5 (Cold Water Accident) and Section 15.9 (Steam Generator Tube Rupture Accident). However, there was only an impact to UFSAR Section 15.5 and no impact to UFSAR Section 15.9.

A summary of the UFSAR changes include:

ONS UFSAR Table 15-34 (Summary of Input Parameters for Accident Analyses Using Computer Codes) for MTC value for Cold Water Accident (UFSAR Section 15.5) and Steam Generator Tube Rupture (UFSAR Section 15.9) and associated impacts to Section 15.5:

- (i) an update to Table 15-34 (Summary of Input Parameters for Accident Analysis Using Computer Codes) to address a more negative MTC from $-35.0E-5 \Delta k/k/^\circ F$ to $-38.0E-5 \Delta k/k/^\circ F$.
- (ii) the associated analytical impacts of a more negative MTC on UFSAR Section 15.5 (Cold Water Accident) plots (Figures), sequence of events table, and text.

The changes to the calculations producing these results are summarized as:

UFSAR Section 15.5 – Cold Water Accident:

- (a) an analysis change for a revised EOC MTC of $-35.0\text{E-}5 \Delta\text{k/k/}^\circ\text{F}$ to $-38.0\text{E-}5 \Delta\text{k/k/}^\circ\text{F}$. This change resulted in new figures for this event and a change to the sequence of events table.
- (b) Minor modeling changes to more accurately model the secondary system by including pieces of the Integrated Control System (ICS) and the addition of volumes to model the steam chest and condenser. In the cold water accident, the net effect of these minor modeling changes is increased steaming which resulted in reduced cold leg temperatures (i.e., greater cooldown) which are apparent by comparing cold leg temperature response prior to peak heat flux for current and former revisions. For negative MTC values, a greater cooldown will result in a larger increase in power in the analysis.

UFSAR Section 15.9 – Steam Generator Tube Rupture:

- (c) an analysis change for a revised EOC MTC of $-35.0\text{E-}5 \Delta\text{k/k/}^\circ\text{F}$ to $-38.0\text{E-}5 \Delta\text{k/k/}^\circ\text{F}$. This change resulted in essentially no change to the integrated steam releases. The dose analyses (Reference 10 Appendix H) were bounded and were not impacted and there are no other impacts to UFSAR Section 15.9.

Per NEI 96-07, Rev. 1, this activity required a 10 CFR 50.59 evaluation because the increase in negative MTC adversely affects the design function of an SSC as described in the UFSAR. The change in this parameter (EOC MTC) does not impact the frequency of occurrence of an accident previously evaluated or the malfunction of an SSC important to safety. Since the MDNBR (minimum departure from nucleate boiling ratio) limit was not exceeded in any of the affected accidents and the steam generator tube rupture (SGTR) dose analysis was not impacted, there could be no dose impact on any accidents or SSC's. There are no physical changes to any SSC's, no different modes of operation, no procedure changes, or no failure of the design function from this activity. Thus, the proposed activity does not create the possibility for an accident of a different type or malfunction of an SSC important to safety with a different result. Since the MDNBR limit is not violated in any of the affected accidents, the fission product barrier for the RCS is also not exceeded or altered. The MTC change is a change in input. The use of the revised control system in the cold water accident described in (b) is a change to an element of the methodology. Since this change increased the cooldown which results in a higher power in the analysis, this change causes the results to be closer to the MDNBR limit. Thus, this change is conservative and 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 analyses.

**Title: EC 96549, Revision 0 – Unit 3 Main Power System Protective Relaying Upgrade
(AR 1351688)**

Summary:

The purpose of Engineering Change (EC) 96549 is to improve the reliability, security, and monitoring capabilities of the protective relaying for the main power system. This upgrade will be accomplished by replacing most of the existing protective relays with a set of multifunction

microprocessor-based relays. In addition to replacing the protective functions of the existing relays, the new microprocessor-based relays will include additional protective functions that are not provided by the existing relaying scheme. The manner in which the main power protective relaying can impact operability of the offsite power sources is unchanged. There is no impact on the ONS Technical Specifications.

The Main Power System and its associated protective relaying are non-safety systems but are designed to support accident mitigation functions. Because they are backed by the safety-related onsite emergency power system, the Main Power System is not required and is not qualified to withstand external events; however, either operation or misoperation of components within these systems can directly or indirectly lead to a turbine trip, analyzed in UFSAR Section 15.8. A failure or delay in the response in the primary protective relaying can also lead to partial or complete loss of non-emergency AC power to the station auxiliaries. The proposed change has been evaluated relative to each of the eight (8) evaluation questions in 10 CFR 50.59. Considering the probability and consequences of the various hardware and software failure modes of the proposed changes, the evaluation concluded that this change can be implemented without prior NCR approval.

Title: EC 91849 - Revision 20 - PSW Power to Unit 2 Pressurizer Heaters and Vital I&C Battery Chargers (AR 1931415)

Summary:

This 10 CFR 50.59 evaluation addresses Engineering Change (EC) 91849, Rev. 20, which has been developed to provide a backup power supply to Unit 2 Reactor Coolant System (RCS) pressurizer heaters by installing new Protected Service Water (PSW) system power feeds to existing Motor Control Centers (MCCs) 2XJ, 2XI and 2XK, which in turn power the following pressurizer heaters:

- Bank 1, Group 2A
- Bank 1, Group 2K
- Bank 2, Group 2D
- Bank 3, Group 2F
- Bank 3, Group 2G
- Bank 4, Group 2I
- Bank 4, Group 2J

The installation of the new PSW system power feeds to existing MCCs 2XJ, 2XI and 2XK will be accomplished by installing three new manual power transfer switches (2PSWSXTRN003, 2PSWSXTRN004 and 2PSWSXTRN005) in the Unit 2 East Penetration Room, including associated controls and cable. The power will be supplied from PSW 600V load center PSWLXPX13, breakers 2C, 4B and 2D in the PSW Building (installed by EC 91871).

In addition, EC 91849 will provide backup power to Unit 2, 125 VDC I&C power system battery chargers 2CA and 2CB from the PSW system by installing two new automatic power transfer switches (2PSWSXTRN001 and 2PSWSXTRN002) in the Unit 2 Electrical Equipment Room, including associated controls and cable. The power will be supplied from PSW MCC 2XPWSA, breakers 2D and 3F (installed by EC 91873).

AR 1930012 is the 10 CFR50.59 screening that was prepared for EC 91849, Rev. 20. The screening concluded that only one aspect of EC 91849 resulted in an adverse effect to the design function of a Structure, System, or Component (SSC), as described in the UFSAR. Therefore, the scope of this 10 CFR50.59 Evaluation addressed the components installed by EC 91849 that resulted in this adverse effect.

10 CFR 50.59 Screening AR 1930012 concluded that the installation of new automatic power transfer switches 2PSWSXTRN001 and 2PSWSXTRN002 will have an adverse effect on the design function of Unit 2 125 VDC Instrumentation & Control (I&C) power system battery chargers 2CA and 2CB because:

1. Each automatic power transfer switch is controlled by a digital controller that is integral to the power transfer switch. Since the two new automatic power transfer switches are identical to each other (i.e., same make/model) and since the power transfer switches will provide the normal power supply to safety-related, redundant battery chargers 2CA and 2CB, EC 91849 will result in battery chargers 2CA and 2CB potentially being susceptible to a software common mode failure that is initiated by the digital controller.
2. The automatic power transfer switches have failure modes which may result in the loss of the normal, credited power supply to battery chargers 2CA and 2CB.

The design, installation and testing of new automatic power transfers switches 2PSWSXTRN001 and 2PSWSXTRN002, including that of the software within the automatic power transfer switch digital controllers, will ensure that a common mode failure of the automatic power transfer switches is not credible.

Postulated failures of the new automatic power transfer switches will only affect the ability of battery chargers 2CA and 2CB to provide power to the associated 125 VDC bus and to charge the associated battery. Failures with this result have been previously considered and in no instance do they affect the ability of the 125 VDC I&C power system to provide an uninterruptable supply of power to the components powered from the associated buses.

The new automatic power transfer switches will not create a new malfunction or accident with a different result than previously evaluated and will not affect design basis limits for fission product barriers.

A revision to the ONS Technical Specifications will not be required.

Title: EC 91826 - Revision 11 - Unit 1 PSW Power to Pressurizer Heaters and Vital I&C Battery Chargers (AR 1931950)

Summary:

This 10 CFR 50.59 evaluation addresses Engineering Change (EC) 91826, Rev. 11, which has been developed to provide a backup power supply to Unit 1 Reactor Coolant System (RCS) pressurizer heaters by installing new Protected Service Water (PSW) system power feeds to existing Motor Control Centers (MCCs) 1XJ and 1XK, which in turn power the following pressurizer heaters:

Bank 1, Group A

Bank 1, Group K
Bank 2, Group D
Bank 3, Group G
Bank 4, Group J

The installation of the new PSW system power feeds to existing MCCs 1XJ and 1XK will be accomplished by installing two new manual power transfer switches (1PSWSXTRN004 and 1PSWSXTRN005) in the Unit 1 East Penetration Room, including all associated controls and cable. The power will be supplied from PSW 600V load center PSWLXPX13, breakers 2B and 3B in the PSW Building (installed by EC 91871).

In addition, EC 91826 will provide backup power to Unit 1 125 VDC I&C power system battery chargers 1CA and 1CB from the PSW system by installing two new automatic power transfer switches (1PSWSXTRN001 and 1PSWSXTRN002) in the Unit 1 Electrical Equipment Room, including associated controls and cable. The power will be supplied from PSW MCC 1XPSW, breakers 4B and 4C (installed by EC 91873).

AR 1931400 is the 10 CFR 50.59 screening that was prepared for EC 91826, Rev. 11. The screening concluded that only one aspect of EC 91826 resulted in an adverse effect to the design function of an SSC, as described in the UFSAR. Therefore, the scope of this 10 CFR 50.59 evaluation addressed the components installed by EC 91826 that resulted in this adverse effect.

10 CFR 50.59 screening AR 1931400 concluded that the installation of new automatic power transfer switches 1PSWSXTRN001 and 1PSWSXTRN002 will have an adverse effect on the design function of Unit 1, 125 VDC I&C power system battery chargers 1CA and 1CB because:

1. Each automatic power transfer switch is controlled by a digital controller that is integral to the power transfer switch. Since the two new automatic power transfer switches are identical to each other (i.e., same make/model) and since the power transfer switches will provide the normal power supply to safety-related, redundant battery chargers 1CA and 1CB, EC 91826 will result in battery chargers 1CA and 1CB potentially being susceptible to a software common mode failure that is initiated by the digital controller.
2. The automatic power transfer switches have failure modes which may result in the loss of the normal, credited power supply to battery chargers 1CA and 1CB.

The design, installation and testing of new automatic power transfers switches 1PSWSXTRN001 and 1PSWSXTRN002, including that of the software within the automatic power transfer switch digital controllers, will ensure that a common mode failure of the automatic power transfer switches is not credible.

Postulated failures of the new automatic power transfer switches will only affect the ability of battery chargers 1CA and 1CB to provide power to the associated 125 VDC bus and to charge the associated battery. Failures with this result have been previously considered and in no instance do they affect the ability of the 125 VDC I&C power system to provide an uninterruptable supply of power to the components powered from the associated buses.

The new automatic power transfer switches will not create a new malfunction or accident with a different result than previously evaluated and will not affect design basis limits for fission product barriers.

A revision to the ONS Technical Specifications will not be required.

Title: EC 91859 Revision 11 - Unit 3 PSW Power to Pressurizer Heaters and Vital I&C Battery Chargers (AR 1933299)

Summary:

This 10 CFR 50.59 evaluation addresses Engineering Change (EC) 91859, Rev. 11, which has been developed to provide a backup power supply to Unit 3 Reactor Coolant System (RCS) pressurizer heaters by installing new Protected Service Water (PSW) system power feeds to existing Motor Control Centers (MCCs) 3XJ, 3XI and 3XK, which in turn power the following pressurizer heaters:

- Bank 1, Group 3A
- Bank 1, Group 3K
- Bank 2, Group 3D
- Bank 3, Group 3F
- Bank 3, Group 3G
- Bank 4, Group 3I
- Bank 4, Group 3J

The installation of the new PSW system power feeds to existing MCCs 3XJ, 3XI and 3XK will be accomplished by installing three new manual power transfer switches (3PSWSXTRN003, 3PSWSXTRN004 and 3PSWSXTRN005) in the Unit 3 East Penetration Room, including associated controls and cable. The power will be supplied from PSW 600V load center PSWLXPX13, breakers 1B, 1D and 2A in the PSW Building (installed by EC 91871).

In addition, EC 91859 will provide backup power to Unit 3, 125 VDC I&C power system battery chargers 3CA and 3CB from the PSW system by installing two new automatic power transfer switches (3PSWSXTRN001 and 3PSWSXTRN002) in the Unit 3 Electrical Equipment Room, including associated controls and cable. The power will be supplied from PSW MCC 3XPSW, breakers 4B and 4C (installed by EC 91873).

AR 1932611 is the 10 CFR 50.59 screening that was prepared for EC 91859, Rev. 11. The screening concluded that only one aspect of EC 91859 resulted in an adverse effect to the design function of an SSC, as described in the UFSAR. Therefore, the scope of this 10CFR50.59 Evaluation addressed the components installed by EC 91859 that resulted in this adverse effect.

10 CFR 50.59 Screening AR 1932611 concluded that the installation of new automatic power transfer switches 3PSWSXTRN001 and 3PSWSXTRN002 will have an adverse effect on the design function of Unit 3, 125 VDC I&C power system battery chargers 3CA and 3CB because:

1. Each automatic power transfer switch is controlled by a digital controller that is integral to the power transfer switch. Since the two new automatic power transfer switches are identical to each other (i.e., same make/model) and since the power transfer switches will provide the normal power supply to safety-related, redundant battery chargers 3CA and

3CB, EC 91859 will result in battery chargers 3CA and 3CB potentially being susceptible to a software common mode failure that is initiated by the digital controller.

2. The automatic power transfer switches have failure modes which may result in the loss of the normal, credited power supply to battery chargers 3CA and 3CB.

The design, installation and testing of new automatic power transfers switches 3PSWSXTRN001 and 3PSWSXTRN002, including that of the software within the automatic power transfer switch digital controllers, will ensure that a common mode failure of the automatic power transfer switches is not credible.

Postulated failures of the new automatic power transfer switches will only affect the ability of battery chargers 3CA and 3CB to provide power to the associated 125 VDC bus and to charge the associated battery. Failures with this result have been previously considered and in no instance do they affect the ability of the 125 VDC I&C power system to provide an uninterruptable supply of power to the components powered from the associated buses.

The new automatic power transfer switches will not create a new malfunction or accident with a different result than previously evaluated and will not affect design basis limits for fission product barriers.

A revision to the ONS Technical Specifications will not be required.