



Serial: NPD-NRC-2010-038
April 22, 2010

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

**SHEARON HARRIS NUCLEAR POWER PLANT, UNITS 2 AND 3
DOCKET NOS. 52-022 AND 52-023
ROADMAP OF CHANGES IN COMBINED LICENSE APPLICATION, REVISION 2**

Ladies and Gentlemen:

This letter provides information supporting the recent Progress Energy revision of the Combined License Application (COLA) for Shearon Harris Nuclear Power Plant, Units 2 and 3. Attached is a "roadmap" of the changes included in the April 12, 2010 submittal along with an enclosure providing an explanation of the information contained in the roadmap.

If you have any questions, or need additional information, please contact me at (919) 546-6992.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Kitchen".

Robert Kitchen
Manager – Nuclear Plant Licensing
Nuclear Plant Development

Enclosure/Attachment

cc : U.S. NRC Region II, Regional Administrator
U.S. NRC Resident Inspector, SNHPP Unit 1 (w/o Attachment 1)
Mr. Brian Hughes, U.S. NRC Project Manager
Mr. Don Palmrose, U. S. NRC Environmental Project Manager

**Shearon Harris Nuclear Power Plant Units 2 and 3
Roadmap of Changes in Combined License Application Revision 2
Explanation by Column in Attachment 1**

Column	Explanation
Change ID#	Unique identifier for tracking purposes
COLA	Identifies the change as STD (standard) or HAR specific
COLA Part	Part 1 (PT01) through Part 11 (PT11)
Chapter	FSAR or ER Chapter
Section	Section/Subsection of the Chapter or Part
Basis for Change	The source of the change
Change Summary	Short description of the change

Attachment 1
Shearon Harris Nuclear Power Plant Unit 2 and 3 COLA Revision 2 Change Roadmap

Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
PT01						
HAR-168	HAR	Pt 01		01.01	Clarification	COLA Part 1, Section 1.1 first paragraph, last sentence add "receive," after "to" and before "possess". Sentence will read, "Progress Energy Carolinas, Inc. also applies for such other licenses as would be required to receive, possess..."
HAR-169	HAR	Pt 01		01.01	Clarification	COLA Part 1, Section 1.1; delete the second and third line of the third paragraph and delete the fourth paragraph.
HAR-170	HAR	Pt 01		01.01	Clarification	COLA Part 1, Section 1.1 sixth paragraph last sentence change "Progress Energy will submit a COLA in mid-year 2008..." to read, "Progress Energy submitted a COLA in 2008..."
HAR-171	HAR	Pt 01		01.01.04	Change to List of Directors	COLA Part 1, Section 1.1.4, Make the following revisions to the List of Directors: 1. Delete David L. Burner – Darby, MT from the Director list. 2. Add "John D. Baker II, Jacksonville, FL to the list. 3. Add ", Jr." after James B. Hyler to read James B. Hyler, Jr. 4. Change the address from Theresa M. Stone from Greensboro, NC to Boston, MA
HAR-172	HAR	Pt 01		01.01.04	Change to Principal Corporate Officers	Section 1.1.4 revise the list of Principal Officers as follows: 1. Add after William D. (Bill) Johnson listing: Jeffrey (Jeff) J. Lyash Executive Vice President-Corporate Development Group Progress Energy, Inc. 2. Change Lloyd Yates to read Lloyd M. Yates 3. Change James Scarola to read James (Jim) Scarola 4. Change Jeffrey (Jeff) J. Lyash on the fifth entry to Vincent Dolan 5. Add ", Inc." to the end of John R McArthur's title. 6. Add ", Inc." to the end of Mark F. Mulhern's title. 7. Add "Progress Energy, Inc." to the end of Frank Schiller's title.
HAR-173	HAR	Pt 01		01.01.07	Change to FERC Secretary	COLA Part 1, Section 1.1.7, Change FERC Secretary from Magalie Roman Salas to read: Kimberly D. Bose
HAR-174	HAR	Pt 01		02.01	Clarification	COLA Part 1, Section 2.1 for General Information, second bullet. Delete paragraph starting with, "In addition, PEC is currently evaluating the Department of Energy's (DOE) loan..."
HAR-175	HAR	Pt 01		02.01	Clarification	COLA Part 1, Section 2.1 for General Information, third bullet. Change to read: The published annual financial report for 2006, together with interim financial statements that are pertinent, are enclosed. Current annual reports and Security and Exchange Commission filings are available at http://phx.corporate-ir.net/phoenix.zhtml?c=106559&p=irol-IRHome .
HAR-188	HAR	Pt 01		02.01	Clarification	COLA Part 1, Section 2.1 first bullet change (a), (b) and (c) dollar amounts to read as follows: (a) \$5,499,101,000 (b) \$220,000,000 (c) \$607,109,000 Total cost remains unchanged.
HAR-176	HAR	Pt 01		03.00	Editorial	COLA Part 1, Section 3.0 first sentence, change "Attachment A" to read "Appendix A".

Attachment 1
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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-177	HAR	Pt 01		04.00	Editorial	COLA Part 1, Section 4.0 third sentence add the word "with" in front of 10 CFR 50.37.
PT02						
Chapter 1						
5882	STD	Pt 02	FSAR 01	01.01.T / T1.1-201	Conforming change associated with COL-SER-OI-Ch01 response to OI 01.05-01 item 1	COLA Part 2, FSAR Chapter 1, Section 1.1, Table 1.1-201, will be revised to add a new acronym of SNM for "Special Nuclear Material"
HAR-137	STD	Pt 02	FSAR 01	01.01.T / T1.1-201	Editorial	COLA Part 2, FSAR Chapter 1, Section 1.1, Table 1.1-201 will be revised to delete the following acronyms that appear more than once: TSO, TSP, TVA, TWTT, UC, UCS, UCSS, UHRS
HAR-147	STD	Pt 02	FSAR 01	01.01.T / T1.1-202	Editorial	COLA Part 2, FSAR Chapter 1, Table 1.1-202 (Sheet 2 of 2), change the heading of the second column from "Margin Notation" to read "Definition and Use" to match Sheet 1 of 2.
						COLA Part 2, Chapter 1, Subsection 1.4.1, second paragraph will be revised from: Not all participants have been identified at this time. Changes to this section are required to identify additional participants, principal consultants, outside service organizations, or contractors for design, construction, and operation of HAR 2 and 3. To address the identification of additional participants, a Combined License Condition is presented in a separate document submitted as part of this application. To read: Not all participants have been identified at this time. In particular, the AP1000 NSSS provider, architect-engineer, and constructor have not yet contracted. This section of the FSAR will be revised to include information identifying the NSSS provider, the architect-engineer, and the constructor following establishment of contracts for these purposes. This information will include descriptions of the technical qualifications of the NSSS provider, the architect-engineer, and the constructor, and address the division of responsibility among them and the operator.
HAR-139	STD	Pt 02	FSAR 01	01.04.01	Conforming change from Vogtle OI response on Chapter 17	
5635	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	SUPERSEDED by Qb 5906 - BLN-VOL-LTR-004 response to NEI 06-13 item 1	1. COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, will be revised to read: NEI 06-13A(b) Template for an Industry Training 2 13.2 March 2009 ML090910554 Program Description
5636	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	SUPERSEDED by Qb 5907 - BLN-VOL-LTR-004 response to NEI 06-13 item 2	2. COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, will be revised to add new footnote b to read: b) NEI 06-13A Revision 2 includes the approved Revision 1 template, the NRC safety evaluation, and corresponding responses to the NRC Request for Additional Information. Only the approved template is incorporated by reference. The rest of the document is referenced but not incorporated into the FSAR.
5637	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	SUPERSEDED by Qb 5907 - BLN-VOL-LTR-004 response to NEI 06-13 item 3	3. COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, footnote a, will be revised to read: a) NEI 07-02A Revision 0 includes the approved Revision 3 template, the NRC safety evaluation, and corresponding responses to the NRC Request for Additional Information. Only the approved template is incorporated by reference. The rest of the document is referenced but not incorporated into the FSAR.
5906	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	COL-SER-CI-Ch12 response to CI 12.01.01 item 1 SNC Letter #ND-09-1529	Revise "1. COLA Part 2, FSAR Chapter 1, Table 1.6-201 as revised by TVA R-COLA letter dated May 11, 2009, Update of NEI 06-13 References" to match the table per Qb 3524 response in ND-09-1529.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5907	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	COL-SER-CI-Ch12 response to CI 12.01.01 item 2 SNC Letter #ND-09-1529	2. COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, footnote a) as revised by, and footnote b) as added by, TVA R-COLA letter dated May 11, 2009, Update of NEI 06-13 References, will be revised to read (note that footnote b) is entirely deleted): a) The NRC-accepted NEI documents identified by the A in the document number include the accepted template, the NRC safety evaluation, and corresponding responses to the NRC Requests for Additional Information. Only the accepted template is incorporated by reference. The remainder of the document is referenced but not incorporated into the FSAR.
5973	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	Editorial	COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, will be revised to include the ADAMS number for the Westinghouse APP-GW-GL-700 from: ML TBD To read: ML083230868
6055	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	SUPERSEDED by Qb 6420 - COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 1 SNC Letter ND-09-1770	1. COLA Part 2, FSAR Chapter 1, Table 1.6-201 as revised by VEGP R-COLA letter dated October 16, 2009, Update of NEI 07-03A References, will be revised to reflect approval of NEI 07-08A.
6420	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	Editorial to match BNL COLA	COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, will be revised to include the ADAMS number NEI 07-08A from: ML(tbd) To read: ML093220164
6056	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 2 SNC Letter ND-09-1770	2. COLA Part 2, FSAR Chapter 1, Table 1.6-201 footnote will be revised to read: (A) Denotes NRC approved document.
6083	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	Editorial revision to the template title	COLA Part 2, FSAR Chapter 1, Section 1.6, Table 1.6-201, NEI 06-13A title, will be revised to read: Template for an Industry Training Program Description
6086	STD	Pt 02	FSAR 01	01.06.T / T1.6-201	Editorial revision to COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 1 SNC Letter ND-09-1770	COLA Part 2, FSAR Chapter 1, Table 1.6-201, title for NEI 07-08A References, will be revised from: "Generic FSAR Template Guidance for Ensuring Occupational Radiation Exposures Are As Low As Is Reasonably Achievable (ALARA)" To read: "Generic FSAR Template Guidance for Ensuring that Occupational Radiation Exposures Are As Low As Is Reasonably Achievable (ALARA)"
HAR-001	HAR	Pt 02	FSAR 01	1.08	RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	COLA Part 2, FSAR Chapter 1, Section 1.8, will be revised to include the following new paragraph at the end of the section with a left margin annotation (LMA) of HAR SUP 1.8-3: "DCD Table 1.8-1 presents interface items for the AP1000. FSAR section(s) addressing these interface items are tabulated in Table 1.8-203."
4940	STD	Pt 02	FSAR 01	01.08.T / T1.8-202	RAI LTR 152 response to RAI 19-21 item 1	1. COLA Part 2, FSAR Chapter 1, Table 1.8-202, COL ITEM 19.59.10-4 will be changed to read: Implement Severe Accident Management Guidance
HAR-002	HAR	Pt 02	FSAR 01	01.08.T / T1.8-203	RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	Add the new Table 1.8-203 entitled Summary of FSAR Discussions of AP1000 Plant Interfaces, with a LMA of HAR SUP 1.8-3; per RAI LTR 065 (H-0482) response in NPD-NRC-2009-200.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-138	HAR	Pt 02	FSAR 01	01.08.T / T1.8-203	Addition of reference to Subsection 9.2.11 not provided in RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	COLA Part 2, FSAR Chapter 1, Table 1.8-203, Item No. 9.5, add Subsection 9.2.11.
5810	STD	Pt 02	FSAR 01	01.09.01.01	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 1	1. Revise the following text in FSAR Subsection 1.9.1.1 to read: ... One such general alternative is the use of previous revisions of the Regulatory Guide for design aspects as stated in the DCD in order to preserve the finality of the certified design (see Notes at the end of Appendix 1AA). . . .
5811	STD	Pt 02	FSAR 01	01.09.01.02	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 2	2. Revise the following text in FSAR Subsection 1.9.1.2 to read: ... One such general alternative is the use of previous revisions of the Regulatory Guide for design aspects as stated in the DCD in order to preserve the finality of the certified design (see Notes at the end of Appendix 1AA). . . .
5812	STD	Pt 02	FSAR 01	01.09.01.03	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 3	3. Revise the following text in FSAR Subsection 1.9.1.3 to read: ... One such general alternative is the use of previous revisions of the Regulatory Guide for design aspects as stated in the DCD in order to preserve the finality of the certified design (see Notes at the end of Appendix 1AA). . . .
5813	STD	Pt 02	FSAR 01	01.09.01.04	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 4	4. Revise the following text in FSAR Subsection 1.9.1.4 to read: ... One such general alternative is the use of previous revisions of the Regulatory Guide for design aspects as stated in the DCD in order to preserve the finality of the certified design (see Notes at the end of Appendix 1AA). . . .
4892	STD	Pt 02	FSAR 01	01.09.05.01.05	RAI LTR 025 S1 response to RAI 08.01-002 item 1	SUP 1.9-3): 1.9.5.1.5 Station Blackout Add the following text to the end of DCD Subsection 1.9.5.1.5. Training and procedures to mitigate a 10 CFR 50.63 "loss of all alternating current power" (or station blackout (SBO)) event are implemented in accordance with Sections 13.2 and 13.5, respectively. As recommended by NUMARC 87-00 (Reference 201), the SBO event mitigation procedures address response (e.g., restoration of onsite power sources), ac power restoration (e.g., coordination with transmission system load dispatcher), and severe weather guidance (e.g., identification of actions to prepare for the onset of severe weather such as an impending tornado), as applicable. The AP1000 is a passive design and does not rely on offsite or onsite ac sources of power for at least 72 hours after an SBO event, as described above. In addition, there are no nearby large power sources, such as a gas turbine or black start fossil fuel plant, that can directly connect to the station to mitigate the event. Restoration from an SBO event will be contingent upon ac power being made available from any one of the transmission lines described in Section 8.2 or any one of the standby diesel generators.
4893	STD	Pt 02	FSAR 01	01.09.06	RAI LTR 025 S1 response to RAI 08.01-002 item 2	2. COLA Part 2, FSAR Chapter 1, will be revised to include the following new Subsection 1.9.6 (with no LMA): 1.9.6 References Add the following text to the end of DCD Subsection 1.9.6. 201. NUMARC 87-00, Guidelines and Technical Bases for NUMARC Initiatives Addressing Station Blackout at Light Water Reactors, Revision 1, August 1991.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5908	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.008	COL-SER-CI-Ch12 response to CI 12.01.01 item 3 SNC Letter #ND-09- 1529	3. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guide 1.8 will be revised to read: 1.8 Qualification and Training of Personnel for 12.1 (NEI 07-08A) Nuclear Power Plants (Rev. 3, May 2000) Appendix 12AA Appendix 12AA (NEI 07-03A) 13.1.1.4 13.1.3.1 13.2 (NEI 06-13A) 16 (TS 5.3.1)
6057	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.008	COL-SER-OI-Ch12 S1 response to OI 12.01- 001 item 3 SNC Letter ND-09- 1770	3. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guide 1.8 will be revised from "12.1 (NEI 07-08)" to read "12.1 (NEI 07-08A)" in the FSAR Chapter, Section, or Subsection column.
HAR-185	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.008	Conforming change from Vogtle OI response on Chapter 17	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, for RG 1.8, will be revised to add an additional cross-reference of: 17.5 (QAPD, IV)
5639	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.016	This Regulatory Guide withdrawn by NRC on 8-11-2009 via 74 FR 40244.	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised to remove RG 1.16 from the table. COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, for RG 1.28, will be revised from:
HAR-186	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.008	Conforming change from Vogtle OI response on Chapter 17	1.28 Quality Assurance Program Requirements (Design and Construction) (Rev. 3, August 1985) Not referenced; See Appendix 1AA To read: 1.28 Quality Assurance Program Requirements (Design and Construction) (Rev. 3, August 1985) 17.5 (QAPD, II, 17.1) 17.5 (QAPD, IV)
HAR-187	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.008	Conforming change from Vogtle OI response on Chapter 17	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, for RG 1.37, will be revised to add an additional cross-reference of: 17.5 (QAPD, II, 13.2)
HAR-263	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.033	Conforming change from Vogtle OI response on Chapter 17	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, for RG 1.37, will be revised to add an additional cross-reference of: 17.5 (QAPD, IV)
2598	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.068	SUPERSEDED by Qb 4855 - RAI LTR 139 response to RAI 14.02- 012, item 2	2. COLA Part 2, FSAR Chapter 1, Table 1.9-201 will be revised to include additional FSAR Chapter, Section, or Subsection references for RG 1.68 of 14.2.1, 14.2.3, 14.2.8, and 14.2.11.2, to go with the existing 16 (TS Bases 3.1.8)

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary								
4855	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.068	RAI LTR 139 S1 response to RAI 14.02-012, item 6	6. COLA Part 2, FSAR, Chapter 1, Table 1.9-201, as shown in letter 139, will be revised to read: <table border="0"> <tr> <td align="center">Regulatory Guides</td> <td align="center">FSAR Chapter, Section, or Subsection</td> </tr> <tr> <td>1.68 Initial Test Program for Water-Cooled Nuclear Power Plants (Rev. 3, March 2007)</td> <td>14.2.1 14.2.3 14.2.8 14.2.5.2 16 (TS Bases 3.1.8)</td> </tr> </table>	Regulatory Guides	FSAR Chapter, Section, or Subsection	1.68 Initial Test Program for Water-Cooled Nuclear Power Plants (Rev. 3, March 2007)	14.2.1 14.2.3 14.2.8 14.2.5.2 16 (TS Bases 3.1.8)				
Regulatory Guides	FSAR Chapter, Section, or Subsection													
1.68 Initial Test Program for Water-Cooled Nuclear Power Plants (Rev. 3, March 2007)	14.2.1 14.2.3 14.2.8 14.2.5.2 16 (TS Bases 3.1.8)													
3995	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.078	BLN RAI LTR No. 168 response dated 1/5/2010 for RAI 06.04-07	Add "6.4.3" to the additional cross-reference listing in the FSAR Chapter, Section, or Subsection column for Regulatory Guide 1.78								
3995	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.196	BLN RAI LTR No. 168 response dated 1/5/2010 for RAI 06.04-07	Revise the cross-reference listing in the FSAR Chapter, Section, or Subsection column for Regulatory Guide 1.196 from: "Not referenced; see Appendix 1AA" To read: "6.4.3"								
5896	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.097	Consistency with referenced revision throughout FSAR	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, will be revised for Regulatory Guide 1.97 (retaining STD LMA) from: <table border="0"> <tr> <td>1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)</td> <td>Appendix 12AA (NEI 07-03) 16 (TS bases 3.3.3)</td> </tr> <tr> <td colspan="2">To read:</td> </tr> <tr> <td>1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)</td> <td>Not referenced; see Appendix 1AA</td> </tr> <tr> <td>1.97 Instrumentation For Light-Water-Cooled Nuclear Power Plants to Assess Plant Environs Conditions During and Following an Accident (Rev. 3, May 1983)</td> <td>Table 7.5-201 Appendix 12AA 16 (TS Bases 3.3.3)</td> </tr> </table>	1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Appendix 12AA (NEI 07-03) 16 (TS bases 3.3.3)	To read:		1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Not referenced; see Appendix 1AA	1.97 Instrumentation For Light-Water-Cooled Nuclear Power Plants to Assess Plant Environs Conditions During and Following an Accident (Rev. 3, May 1983)	Table 7.5-201 Appendix 12AA 16 (TS Bases 3.3.3)
1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Appendix 12AA (NEI 07-03) 16 (TS bases 3.3.3)													
To read:														
1.97 Criteria for Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Not referenced; see Appendix 1AA													
1.97 Instrumentation For Light-Water-Cooled Nuclear Power Plants to Assess Plant Environs Conditions During and Following an Accident (Rev. 3, May 1983)	Table 7.5-201 Appendix 12AA 16 (TS Bases 3.3.3)													
5909	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.097	SUPERSEDED by Qb 5896 - COL-SER-CI-Ch12 response to CI 12.01.01 item 4 SNC Letter #ND-09-1529	4. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guide 1.97, will be revised to read: <table border="0"> <tr> <td>1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)</td> <td>Not referenced</td> </tr> <tr> <td>1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 3, May 1983)</td> <td>Appendix 12AA 16 (TS Bases 3.3.3)</td> </tr> </table>	1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Not referenced	1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 3, May 1983)	Appendix 12AA 16 (TS Bases 3.3.3)				
1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 4, June 2006)	Not referenced													
1.97 Criteria For Accident Monitoring Instrumentation For Nuclear Power Plants (Rev. 3, May 1983)	Appendix 12AA 16 (TS Bases 3.3.3)													
3474	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.101	RAI LTR 142 response to RAI 01-11, item 1	1. COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised to address RG 1.101, Revisions 3, 4 and 5.								
5951	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.101	Editorial consistency of entries	COLA Part 2, Chapter 1, Section 1.9, Table 1.9-201, RG 1.101, Revs. 5 and 4 from "Not referenced" to read "Not referenced; see Appendix 1AA"								

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5889	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.133	Appendix 1AA contains some FSAR position statements; not all discussion is per DCD.	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised to change the FSAR Chapter, Section, or Subsection reference for RG 1.133 from "DCD discussion only; see DCD Table 1.9-1" to read "Not referenced; see Appendix 1AA"
5952	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.135	This Regulatory Guide withdrawn by NRC on 8-6-2009 via 74 FR 39349.	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised for RG 1.135 from: "DCD discussion only; see DCD Table 1.9-1" To read: "Not referenced; see Appendix 1AA"
5891	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.152	Appendix 1AA contains some FSAR position statements; not all discussion is per DCD.	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised to change the FSAR Chapter, Section, or Subsection reference for RG 1.152 from "DCD discussion only; see DCD Table 1.9-1" to read "Not referenced; see Appendix 1AA"
399	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.196	BLN RAI LTR No. 168 response dated 1/5/2010 for RAI 06.04-07	Revise the cross-reference listing in the FSAR Chapter, Section, or Subsection column for Regulatory Guide 1.196 from: "Not referenced; see Appendix 1AA" to Read: "6.4.3".
5910	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 1.206	COL-SER-CI-Ch12 response to CI 12.01.01 item 5 SNC Letter #ND-09-1529	5. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guide 1.206, FSAR crossreference column entry, will be revised to add "Appendix 12AA (NEI 07-03A)"
5911	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 8.000	COL-SER-CI-Ch12 response to CI 12.01.01 item 6 SNC Letter #ND-09-1529	6. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Division 8 Regulatory Guides will be revised to match Qb 3524 response per ND-09-1529.
6060	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 8.000	COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 4 SNC Letter ND-09-1770	4. COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guides 8.2, 8.7, 8.8, 8.9, 8.10, 8.13, 8.15, 8.27, 8.28, 8.29, 8.34, 8.35, 8.36, and 8.38 will be revised from "12.1 (NEI 07-08)" to read "12.1 (NEI 07-08A)" in the FSAR Chapter, Section, or Subsection column.
HAR-184	HAR	Pt 02	FSAR 01	01.09.T / T1.9-201 8.008, 8.010	Change of subsection number due to HAR-237	COLA Part 2, FSAR Chapter 1, Table 1.9-201, Regulatory Guides 8.8 and 8.10 revise "13.1.2.1.2" and "13.1.2.1.2.6" to "13.1.2.1.3" and "13.1.2.1.3.6"
5836	STD	Pt 02	FSAR 01	01.09.T / T1.9-204 85-05	Consistent location of LMAs for standard content	Relocate the LMA of STD COL 1.9-2 to be above the table and adjacent to the table number and remove any STD COL 1.9-2 LMAs from within the table. Only HAR COL 1.9-2 LMAs should remain within the table, separated with horizontal lines above and below that LMA.
3963	STD	Pt 02	FSAR 01	01.09.T / T1.9-204 Sh01 to Sh06	COL-SER-OI-Ch15 response to OI 15.04-01 for RAI 15.04.06-1 per Letter ND-10-0004	Revise COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-204, to restore the line item for Generic Letter 85-05 as follows: 85-05 Inadvertent Boron Dilution Events (1/85) 13.5
5482	STD	Pt 02	FSAR 01	01.09.T / T1.9-201 4.15	Address latest version of the Regulatory Guide	COLA Part 2, FSAR Chapter 1, Section 1.9, Table 1.9-201, Revision 1, will be revised to address RG 4.15, Revisions 1 and 2.

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5307	STD	Pt 02	FSAR 01	01.10.03	COL-SER-OI-Ch01 response to OI 01.04-04	COLA Part 2, FSAR Chapter 1, Subsection 1.10.3 will be revised to add the following new paragraph at the end of the subsection (under the LMA of STD SUP 1.10-1): The above discussed controls to eliminate or mitigate construction hazards that could potentially impact operating unit SSCs important to safety are in place when there is an operating nuclear unit on the site.
4897	STD	Pt 02	FSAR 01	01.B	Consistency - FSAR text is in present tense.	COLA Part 2, FSAR Chapter 1, Appendix 1B, will be revised To read: Rather, the severe accident mitigation design alternatives are addressed in the Environmental Report.
5814	STD	Pt 02	FSAR 01	01AA Note	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 5	5. Revise FSAR Appendix 1AA Note (at the end of the Appendix) to read (the # may vary for R-COLA and S-COLA as appropriate): Note #. Above stated general alternatives regarding the use of previous revisions of the Regulatory Guide for design aspects as stated in the DCD is provided to preserve the finality of the certified design. Further, each stated conformance with the programmatic and/or operational aspects is only to the extent that a design change or departure from the approved DCD is not required to implement those programmatic and/or operational aspects. As the operational and programmatic aspects become more fully defined (for example, during the preparation, approval, or initial implementation of plant procedures), there exists a potential that a conflict could be identified between the design as certified in the DCD and the programmatic and/or operational aspects of the guidance. In such cases, the design certification (rule) becomes the controlling factor, and the design conformance to the Regulatory Guide is per the revision stated in the DCD.
5816	STD	Pt 02	FSAR 01	01AA Note	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 7	7. Revise FSAR Appendix 1AA Note (at the end of the Appendix) to include the following additional note (the # may vary for the R-COLA and S-COLA as appropriate): Note #. A "Criteria Section" entry of "General" indicates a scope for the conformance statement of "all regulatory guide positions related to programmatic and/or operational aspects." Thus, an associated conformance statement of "Conforms" indicates that the applicant "complies with all regulatory guide positions related to programmatic and/or operational aspects."
5641	STD	Pt 02	FSAR 01	01AA RG 1.016	This Regulatory Guide withdrawn by NRC on 8-11-2009 via 74 FR 40244.	COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 1.16 will be deleted in its entirety.
3475	STD	Pt 02	FSAR 01	01AA RG 1.033	Superseded by BLN-SER-OI-CH17 Supp 1; RAI LTR 142 response to RAI 01-11, item 2	2. COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 1.33 will be revised to include a reference to NEI 06-14A in the exception statement. "Quality assurance requirements utilize the more recently NRC endorsed NQA-1 and NEI 06-14A in lieu of the identified outdated standards."
6620	STD	Pt 02	FSAR 01	01AA RG 1.033	BLN-SER-OI-CH17 Supp 1	COLA Part 2, FSAR Chapter 1, Appendix 1AA, for RG 1.33, will be revised from: Regulatory Guide 1.33, Rev. 2, 2/78 – Quality Assurance Program Requirements (Operation) General Exception Quality assurance requirements utilize the more recently NRC endorsed NQA-1 in lieu of the identified outdated standards. To read: Regulatory Guide 1.33, Rev. 2, 2/78 – Quality Assurance Program Requirements (Operation) C.1 & C.3 Conforms C.2 Clarification See separate conformance statement for each identified Regulatory Guide. C.3 – C.5 Conforms
3842	STD	Pt 02	FSAR 01	01AA RG 1.053	Editorial to match title of the RG	COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, title for Regulatory Guide 1.53 will be revised to replace "Nuclear Power Plant Protection" with "Safety"

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5893	STD	Pt 02	FSAR 01	01AA RG 1.097	FSAR Revision 1 included conformance (See Table 7.5-201) for equipment outside the DCD scope.	COLA Part 2, FSAR Chapter 1, Appendix 1AA, conformance statement for Regulatory Guide 1.97 will be revised from: "This guidance is completely within the scope for the DCD." To read: Conformance with this Regulatory Guide for programmatic and/or operational aspects is documented below General Exception Portable equipment outside the DCD scope conforms to Revision 3 of this Regulatory Guide for consistency with DCD scope since Revision 4 indicates that partial implementation is not advised.
3476	STD	Pt 02	FSAR 01	01AA RG 1.101	RAI LTR 142 response to RAI 01-11, item 3	3. COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 1.101 will be revised to address Revisions 3, 4, and 5. from: General N/A To read: General Exception Rev. 5 is not applicable for this site. Rev. 3 and 4 are essentially the same except for endorsement of NEI 99-01 which is not directly applicable to the AP1000 passive design. The EP conforms to Rev. 3 and 4 with the exception that the EALs are written with necessary modifications to address the passive plant design.
4871	STD	Pt 02	FSAR 01	01AA RG 1.133	RAI LTR 142 S1 response to RAI 01-011, item 6	COLA Part 2, FSAR Chapter 1, Appendix 1AA, conformance statement for Regulatory Guide 1.133 will be revised to read: C.2b Conforms Procedures are addressed in Section 13.5 C.3a Conforms Procedures are addressed in Section 13.5 C.4g Conforms Procedures are addressed in Section 13.5 C.4h Conforms Procedures are addressed in Section 13.5 C.4i Conforms ALARA is addressed in Chapter 12 and Section 13.5 C.4j Conforms Training is addressed in Section 13.2 C.6 Exception See position for Regulatory Guide 1.16
5956	STD	Pt 02	FSAR 01	01AA RG 1.133	Regulatory Guide 1.16 withdrawn by NRC on 8-11-2009 via 74 FR 40244. Revises BLN RAI LTR 142 S1 response to RAI 01-011, item 6	COLA Part 2, FSAR Chapter 1, Appendix 1AA, conformance statement C.6 for Regulatory Guide 1.133 will be revised to read: C.6 Exception Regulatory Guide 1.16 has been withdrawn
4023	STD	Pt 02	FSAR 01	01AA RG 1.133	COL-SER-OI-Ch04 response to OI 14.04-01	After "Regulatory Guide 1.16 has been withdrawn." insert the following, "Event reporting is performed in accordance with 10 CFR 50.72 and 50.73 utilizing the guidance of NUREG-1022."
5954	STD	Pt 02	FSAR 01	01AA RG 1.135	This RG withdrawn by NRC (See 74 FR 39349, 08/06/2009).	COLA Part 2, FSAR Chapter 1, Appendix 1AA, conformance statement for Regulatory Guide 1.135 will be revised To read: Conformance of the design aspects is as stated in the DCD. The programmatic and/or operational aspects are not applicable since this guidance was withdrawn by NRC (74 FR 39349, 08/06/2009).

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
4995	STD	Pt 02	FSAR 01	01AA RG 1.152	Changes to address Security Regulation revisions	COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 1.152 will be revised to reflect the latest revisions to the Security regulations To read: General Exception The Cyber Security Program is based on March 2009 revisions of the 10 CFR 73.54 regulations in lieu of Revision 2 of this Regulatory Guide.
4824	STD	Pt 02	FSAR 01	01AA RG 1.180	WEC DCD Rev 17 conformance change	COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 1.180 will be revised to reflect that the DCD addresses the design aspects of Revision 1 of the RG.
3477	STD	Pt 02	FSAR 01	01AA RG 8.006	RAI LTR 142 response to RAI 01-11, item 4	4. COLA Part 2, FSAR Chapter 1, Appendix 1AA, Revision 1, conformance statement for Regulatory Guide 8.6 will be revised to include justification for the identified exception and read as follows: Instrument calibration program is based upon criteria in ANSI N323A-1997 (with 2004 Correction Sheet) "Radiation Protection Instrumentation Test and Calibration, Portable Survey Instruments." The ANSI 42.3-1969 Standard is no longer recognized as sufficient for calibration of modern instruments.
Chapter 2						
HAR-415	HAR	Pt 02	FSAR 02	01.01 / T1.1-201	RAI LTR 017 response to RAI 02.04.13-2 (H-0440 in NPD-NRC-2009-049)	Three new acronyms were added as part of the text revisions (see HAR-022) to Table 1.1-201: CVS = Chemical Volume and Control System EDTA = Ethylenediaminetetraacetic Acid TSP = Trisodium Phosphate
HAR-416	HAR	Pt 02	FSAR 02	01.01 / T1.1-201	Changes based on RAI LTR 023 [RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230] need to be incorporated into HAR FSAR Subsection 2.4.5. No specific RAI references the subsection revision. The revised HAR FSAR Subsection 2.4.5 is derived from calculation, HAG-0000-X7C-003, Rev. 4.	One new acronym was added as part of the text revisions (see HAR-400) to Table 1.1-201: PMW = Probable Maximum Wind
HAR-417	HAR	Pt 02	FSAR 02	01.01 / T1.1-201 02.03.01.02.06	Editorial change (acronyms)	Updated acronyms in Table 1.1-201 for the following (from 2.3.1.2.6): 1. Add USEPA = U.S. Environmental Protection Agency 2. Correct the entry for NAAQS to be capitalized for each letter. Spell out/add acronyms for these two items and also for carbon monoxide (CO) in the last paragraph of Subsection 2.3.1.2.6.
HAR-420	HAR	Pt 02	FSAR 02	02.00, 02.01, 02.02, 02.03, 02.04 and 02.05	Editorial changes	Minor editorial changes made to Roadmap items for clarity, grammar, and spelling.
5133	STD	Pt 02	FSAR 02	02.00.T / T2.0-201 Sh08	Revised to match AP1000 DCD Site Parameter value	COLA Part 2, FSAR Chapter 2, Table 2.0-201, HAR Site Characteristic value for the Rain parameter was revised to remove the 5-min criteria from "18.9 in/hr (6.2 in/5 min)" to read "18.9 in/hr"

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HAR-003	HAR	Pt 02	FSAR 02	02.00.T/ T2.0-201	RAI LTR 044 S1 response to RAI 3.08.05-1 H-0487 and H-0262	Revised FSAR Table 2.0-201 (Sheet 6 of 9) per RAI 3.08.05-1 H-0487 and H-0262.
HAR-405	HAR	Pt 02	FSAR 02	02.00.T/ T2.0-201	RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Revise reference to DCD plant elevation to reflect FSAR 2.4.1.1
HAR-406	HAR	Pt 02	FSAR 02	02.00.T/ T2.0-201	RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Revised maximum water elevation to reflect 259.44 ft and the reference to reflect FSAR 2.4.3.6.8.
HAR-418	HAR	Pt 02	FSAR 02	02.01.03.06	Revised to be consistent with projected COL schedules.	Revised the first paragraph of 2.1.3.6 as follows: 1. Delete the 2nd to last sentence that reads: "The projected COL approval date is 2010." 2. Revise the last sentence of the paragraph from: "The projected population distribution and population density for the year 2010 and 5 years after that approval date are shown in Table 2.1.3-207 and on Figures 2.1.3-208, 2.1.3-209, 2.1.3-210, and 2.1.3-211." To read: "The projected population distribution and population density for the years 2010 and 2015 are shown in Table 2.1.3-207 and on Figures 2.1.3-208, 2.1.3-209, 2.1.3-210, and 2.1.3-211."
HAR-006	HAR	Pt 02	FSAR 02	02.02.03.01.03	RAI LTR 031 response to RAI 06.04-3 (H-0387 in NPD-NRC-2009-030)	Revised FSAR Chapter 2 Subsection 2.2.3.1.3, 2nd paragraph, 2nd line per RAI 06.04-3 (H-0387).
HAR-008	HAR	Pt 02	FSAR 02	02.03.01.02.02	RAI LTR 016 response to RAI 19-1 (H-0480 in NPD-NRC-2009-180)	Revised the text in Subsection 2.3.1.2.2, "Tornadoes and Severe Winds" per RAI 19-1 (H-0480) except a period was added to "4356.5 mi ² " and the "f" was changed to "per" based on usage throughout the document.
HAR-409	HAR	Pt 02	FSAR 02	02.03.01.02.02	Change to be consistent with Table 2.3.1-202	Table 2.3.1-202 was revised in Rev 1. The accompanying text in Subsection 2.3.1.2.2 was not updated. Change 2nd to last paragraph as follows for consistency: Second sentence: change "97 km/h (60 mph)" to "156 km/h (97 mph)" Fourth sentence: change "111 km/h (69 mph)" to "179 km/h (112 mph)"
HAR-009	HAR	Pt 02	FSAR 02	02.03.01.02.03	RAI LTR 062 response to RAI 02.03.01-13 (H-0475 in NPD-NRC-2009-126)	Revised the last paragraph of FSAR Rev. 1 Subsection 2.3.1.2.3 "Heavy Snow and Severe Glaze Storms" per RAI LTR 062, H-0475.

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HAR-010	HAR	Pt 02	FSAR 02	02.03.01.02.06	RAI LTR ER-NRC-001 response to RAI 2.7-2 (H-0478) per NPD-NRC-2009-136. This response supercedes the RAI LTR ER-NRC-001 response to RAI 2.7-2 (H-0453) per NPD-NRC-2009-082 which superceded the RAI LTR ER-NRC-001 response to RAI 2.7-2 (H-0294) per NPD-NRC-2009-017.	The first sentence of the third paragraph in FSAR Subsection 2.3.1.2.6 was revised to "The HAR site is located in Wake County, which is currently designated by the U.S. Environmental Protection Agency (USEPA) as a maintenance area for the ozone standard (8-hour) and carbon monoxide (CO) standards (1- and 8-hour), is an attainment area for all other pollutants and air quality standards (Reference 2.3-224)." The last sentence of the third paragraph in FSAR Subsection 2.3.1.2.6 was revised to "Although Wake County is currently designated by USEPA and NCDENR to be a maintenance area for ozone, it is noted that the operation of the HNP facility (including the proposed HAR units) should not result in an increase in ozone levels at any location, since there will be no significant emissions of any ozone forming pollutants from the facility."
HAR-401	HAR	Pt 02	FSAR 02	02.03.02.01.05	NPIT 330387	The last two sentences of FSAR Subsection 2.3.2.1.5 "Precipitation" should be revised from: "The on-site precipitation data presented here are considered to be representative of the HAR Site and are generally consistent with the long-term regional observations from the Charlotte, Greensboro, and Raleigh-Durham meteorological observing stations when compared with long-term periods of record at those locations. Regional precipitation data appear to be reasonably representative of the site area and there is no reason to expect that on-site measurements of precipitation would be significantly different." To Read: "The 8 years of on-site precipitation data reported in Table 2.3.2-260 are consistently within the bounds of the long-term regional observations from Charlotte, Greensboro, Raleigh-Durham and Wilmington when compared with long-term periods of record at those locations."
HAR-011	HAR	Pt 02	FSAR 02	02.04.01.01	RAI LTR 023 response to RAI 02.04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Revise fourteenth paragraph (p. 2.4-4) Subsection 2.4.1.1, Site and Facilities per RAI 02.04.03-4 (H-0485).
HAR-407	HAR	Pt 02	FSAR 02	02.04.01.01	NPIT 330392	Revised "an average annual minimum" to "a minimum" in two places in the 10th paragraph of section 2.4.1.1 to be consistent with ER Rev 1 Section 2.3 discussion of flow in Buckhorn Creek.
HAR-421	HAR	Pt 02	FSAR 02	02.04.02.03	Editorial change	First paragraph, second sentence referred to "DCD Revision 16". Corrected to "DCD Revision 17."

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-403	HAR	Pt 02	FSAR 02	02.04.03	Editorial change/RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	<p>Correction to references as shown in RAI RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230 :</p> <ol style="list-style-type: none"> The reference numbers assigned in the RAI were incorrect: --RAI references 2.4-232 and 2.4-233 shown to be deleted were FSAR references 2.4-231 and 2.4-232, respectively. --RAI references 2.4-259 through 2.4-263 were shown to be added, but the Rev 1 FSAR reference numbers ended at 2.4-260. New references were numbered as shown in item 3 below. The RAI showed 2 references to be deleted from the FSAR, but 3 references needed to be removed: FSAR references 2.4-231, 2.4-232 and 2.4-233. The RAI showed 5 references to be added, but 6 should have been added as follows: --RAI references 2.4-259 and 2.4-260 were added as new FSAR Rev 2 references 2.4-260 and 2.4-261. --A reference called out in the text of the RAI as 2.4-231, but should have been a new reference. It was added as FSAR Rev 2 reference 2.4-262 as follows: U.S. Army Corps of Engineers (USACE), "Engineering and Design – Inflow Design Floods for Dams and Reservoirs," Washington, DC, ER 1110-8-2(FR), March, 1991. --RAI references 2.4-261, 2.4-262 and 2.4-263 were added as new FSAR Rev 2 references 2.4-263, 2.4-264 and 2.4-264, respectively. The date for RAI reference 2.4-261/new FSAR Rev 2 reference 2.4-263 should be 2006 instead of 2008. This date was corrected in the source given on new FSAR figures 2.4.3-234, 2.4.3-235, 2.4.3-236 and 2.4.3-237. <p>The references were renumbered in Section 2.4.16 (References) and throughout the text to reflect these corrections.</p>
HAR-412	HAR	Pt 02	FSAR 02	02.04.03 and 02.04.06	Change to be consistent with subjects.	Added HAR COL 2.4-2 LMA at the beginning of sections 2.4.3 and 2.4.6.
HAR-013	HAR	Pt 02	FSAR 02	02.04.03.T / T2.4.3-201-238	RAI LTR 023 response to RAI 02.04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Revised Subsection 2.4.3 Tables 2.4.3-201 through 2.4.3-238 per RAI LTR 023 (H-0485) response in NPD-NRC-2009-230.
HAR-014	HAR	Pt 02	FSAR 02	02.04.03.F / F2.4.3-209-224	RAI LTR 023 response to RAI 02.04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Revised Subsection 2.4.3 Figures 2.4.3-209 through 2.4.3-224 per RAI LTR 023 (H-0485) response in NPD-NRC-2009-230.

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HAR-015	HAR	Pt 02	FSAR 02	02.04.03.F / F2.4.3-225-237	RAI LTR 023 response to RAI 02.04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Added new Subsection 2.4.3 Figures 2.4.3-225 through 2.4.3-237 per RAI LTR 023 (H-0485) response in NPD-NRC-2009-230.
HAR-016	HAR	Pt 02	FSAR 02	02.04.04	RAI LTR 060 response to RAI 02.04.04-1 (H-0445 in NPD-NRC-2009-072)	Revised Subsection 2.4.4 per RAI 02.04.04-1 (H-0445) with a minor editorial change for clarity in the sentence beginning "All impoundments..."; the new FSAR reference was also numbered 2.4-266.
HAR-400	HAR	Pt 02	FSAR 02	02.04.05 (entire)	Changes based on RAI LTR 023 [RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230] need to be incorporated into HAR FSAR Subsection 2.4.5. No specific RAI references the subsection revision. The revised HAR FSAR Subsection 2.4.5 is derived from calculation, HAG-0000-X7C-003, Rev. 4.	Replaced the existing HAR FSAR Subsection 2.4.5 with the revised text and tables derived from calculation HAG-0000-X7C-003, Rev. 4. See HAR-416 for new acronym added to Table 1.1-201.
HAR-413	HAR	Pt 02	FSAR 02	02.04.10	Change to be consistent with subjects.	Changed LMA from HAR COL 2.4-6 to 2.4-2
HAR-017	HAR	Pt 02	FSAR 02	02.04.12.05	RAI LTR 010 response to RAI 02.04.12-2 and 02.04.12-3 (H-0436 and H-0437 in NPD-NRC-2009-055)	Added a new paragraph to the end of FSAR Subsection 2.4.12.5 per RAI 02.04.12-2 and 02.04.12-3 (H-0436 and H-0437).
HAR-018	HAR	Pt 02	FSAR 02	02.04.12.T / T2.4.12-209	RAI LTR 017 response to RAI 02.04.13-3 (H-0441 in NPD-NRC-2009-049)	Added to note d) in FSAR Table 2.4.12-209 per RAI 02.04.13-3 (H-0441).

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HAR-019	HAR	Pt 02	FSAR 02	02.04.13.01.01	RAI LTR 017 response to RAI 02.04.13-1 (H-0439 in NPD-NRC-2009-049)	Added new text after the last sentence in FSAR Subsection 2.4.13.1.1 per RAI 02.04.13-2 (H-0440).
HAR-408	HAR	Pt 02	FSAR 02	02.04.13.01.01	NPIT 330392	Revised last paragraph to be consistent with the anticipated minimum downstream release as described in ER Rev 1 Table 2.3-16.
HAR-021	HAR	Pt 02	FSAR 02	02.04.13.01.04.01	RAI LTR 017 response to RAI 02.04.13-2 (H-0440 in NPD-NRC-2009-049)	Added new Subsection 2.4.13.1.4.1 per RAI 02.04.13-2 (H-0440) with the the following changes: –Change "Kds" to Kd values in the last sentence of Subsection. 2.4.13.1.4.1. –ReNUMBER Reference 2.4-2XX to 2.4-268
HAR-022	HAR	Pt 02	FSAR 02	02.04.13.01.04.02	RAI LTR 017 response to RAI 02.04.13-2 (H-0440 in NPD-NRC-2009-049)	Added new FSAR Subsection 2.4.13.1.4.2 Chelating Agents and Impact on Groundwater Transport per RAI LTR 017 (H-0440) response in NPD-NRC-2009-049. See HAR-415 for new acronyms added to Table 1.1-201.
HAR-020	HAR	Pt 02	FSAR 02	02.04.13.T / T2.4.13-206	RAI LTR 017 response to RAI 02.04.13-2 (H-0440 in NPD-NRC-2009-049)	Added new table in Subsection 2.4.13 Table 2.4.13-206 per RAI 02.04.13-2 (H-0440).
HAR-414	HAR	Pt 02	FSAR 02	02.04.15.01	Change to be consistent with subjects.	Removed 2.4.10 from the list of items addressed under Hydrological Description
HAR-411	HAR	Pt 02	FSAR 02	02.04.15.02	Change to be consistent with subjects.	Added the following subsections to the COL items addressed under 2.4.15.2, Floods: 2.4.3, 2.4.4, 2.4.5, 2.4.6 and 2.4.10 (2.4.2 was the only one listed).
HAR-023	HAR	Pt 02	FSAR 02	02.04.16	RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	Deleted FSAR References 2.4-231, 2.4-232, and 2.4-233 per RAI LTR 023. See HAR-403 for additional notes on reference corrections between the RAI and the FSAR implementation.
HAR-024	HAR	Pt 02	FSAR 02	02.04.16	RAI LTR 017 response to RAI 02.04.13-2 (H-0440 in NPD-NRC-2009-049)	Added the following new references: –2.4-268 (RAI Reference 2.4-2XX) CH2M Hill Technical Memo, Distribution Coefficient (Kd) Measurements with Soil and Water, No.: 338884-TMEM-093, dated March 2, 2009. –2.4-269 (RAI Reference 2.4-2YY) WorleyParsons, "Site-Specific Distribution Coefficients (Kd) for Update of HAR FSAR Subsection 2.4.13, Shearon Harris Nuclear Plant, Units 2 and 3", Report No. HAG-000-X7R-009, March 2, 2009. –2.4-270 (RAI Reference 2.4-2ZZ) R. J. Serne, et al, "Characterization of Radionuclide Chelating Agent Complexes Found in Low-level Radioactive Decontamination Waste," NUREG/CR-6124, March 1996, US Nuclear Regulatory Commission

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HAR-410	HAR	Pt 02	FSAR 02	02.05.00.04, Paragraph 7	Revised to be consistent with changes made due to RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	The factors of safety (FS) for static and dynamic bearing capacity were analyzed for safety related structures. Conservative rock mass strength parameters were modeled based on the range of intact rock UCS test results and rock mass discontinuity data. Static and dynamic FS were greater than 3.0 and 2.0, respectively, for each modeled condition. The nuclear island foundations have no potential for liquefaction because these foundations consist of sound rock. Likewise, the Annex Buildings (Seismic Category 2 structures) will be founded on sound rock or concrete fill over sound rock, which will have no potential for liquefaction. To read: The factors of safety (FS) for static and dynamic bearing capacity were analyzed for safety related structures using multiple methods, including the general bearing capacity equation (based on Hoek-Brown rock mass strength parameters) and an oriented rock discontinuity model. For the general bearing capacity equation method, conservative Hoek-Brown rock mass strength parameters were modeled based on the range of intact rock UCS test results and rock mass discontinuity data. For the oriented rock discontinuity method, rock discontinuity orientations and engineering properties were conservatively modeled based on the observed conditions of bedding planes and joint sets. The calculated static FS and dynamic FS were greater than 3.0 and 2.0, respectively, for each modeled condition. The nuclear island foundations have no potential for liquefaction because these foundations consist of sound rock. Likewise,
HAR-025	HAR	Pt 02	FSAR 02	02.05.01.01.04.02.05.02.02	RAI LTR 030 response to RAI 02.05.01-10 (H-0494 in NPD-NRC-2009-211)	Revised the third paragraph of the section on "River Incision and Upwarped Displaced Fluvial Surfaces" in FSAR Section 2.5.1.1.4.2.5.2.2 per RAI LTR 030 response for H-0494 in NPD-NRC-2009-211. See HAR-402 for additional editorial correction to the section title.
HAR-402	HAR	Pt 02	FSAR 02	02.05.01.01.04.02.05.02.02	Editorial change	The section title was intended to be "River Incision and Upwarped Displaced Fluvial Surfaces" instead of "Upward" as was implemented in Rev 1 of the FSAR. See HAR-025; the original RAI (H-0147) and the supplemental RAI (H-0494) both show "Upwarped."
HAR-026	HAR	Pt 02	FSAR 02	02.05.01.01.04.03.01	RAI LTR 030 response to RAI 02.05.01-16 (H-0495 in NPD-NRC-2009-211)	Revised FSAR Section 2.5.1.1.4.3.1 "Association with Mesozoic Basins" per RAI LTR 030 response for H-0495 in NPD-NRC-2009-211.
HAR-422	HAR	Pt 02	FSAR 02	02.05.02.04.04.01	Editorial change	List of tables in first paragraph was revised from "Tables 2.5.2-210, 2.5.2-11, 2.5.2-12, 2.5.2-13, 2.5.2-14, 2.5.2-15, and 2.5.2-216" to "Tables 2.5.2-210, 2.5.2-211, 2.5.2-212, 2.5.2-213, 2.5.2-214, 2.5.2-215, and 2.5.2-216"
HAR-027	HAR	Pt 02	FSAR 02	02.05.02 T / T2.5.5-222	Correction, HAR NPIT 335218	Changed spectral frequency of 3.343 to 3.333 in Table 2.5.2-222.
HAR-028	HAR	Pt 02	FSAR 02	02.05.04.F / F2.5.4-211A and F2.5.4-212A	RAI LTR 056 response to RAI 02.05.04-15 (H-0418 in NPD-NRC-2009-035)	Revised FSAR Figures 2.5.4-211A and 2.5.4-212A as shown in Attachment 02.05.04-15B of NPD-NRC-2009-035.
HAR-029	HAR	Pt 02	FSAR 02	02.05.04.05.03	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Revised Subsection 2.5.4.5.3 per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006.
HAR-030	HAR	Pt 02	FSAR 02	02.05.04.10.01	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Revised Subsection 2.5.4.10.1 per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006.

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HAR-007	HAR	Pt 02	FSAR 02	02.05.04.10.02	RAI LTR 044 S1 response to RAI 3.08.05-1 H-0487 and H-0262	Added a new paragraph to the end of Subsection 02.05.04.10.02 per RAI 3.08-05-1 (H-0487 and H-0262).
HAR-031	HAR	Pt 02	FSAR 02	02.05.04.10.02	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Revised Subsection 2.5.4.10.2 per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006.
HAR-419	HAR	Pt 02	FSAR 02	02.05.04.10.03.01	Editorial change	Revisions to text in 2.5.4 (see HAR-030, HAR-031 and HAR-032) resulted in a renumbering of Equations. Equation number 2.5.4-8 was revised to 2.5.4-10. The equation number for the equation and the accompany text (sentence before equation and sentence after equation) were revised to 2.5.4-10.
HAR-032	HAR	Pt 02	FSAR 02	02.05.04.10.04	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Revised Subsection 2.5.4.10.4 per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006
HAR-033	HAR	Pt 02	FSAR 02	02.05.04.F / F RAI 02.05.04-8-001	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Added new Figure RAI 02.05.04-8-001 (new FSAR Figure 2.5.4-219) Summary of Wedge Configurations and Input Parameters – Sliding Evaluations per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006.
HAR-034	HAR	Pt 02	FSAR 02	02.05.04.T / T RAI 02.05.04-8-001	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Added new FSAR Table 2.5.4-218 (Table RAI 02.05.04-8-001) Results of Sliding Stability Evaluations per RAI LTR 020 response for H-0390 per NPD-NRC-2009-006.
HAR-035	HAR	Pt 02	FSAR 02	02.05.07	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Add new references to Subsection 2.5.7 as shown below: FSAR Reference 2.5.4-244 (Reference RAI 02.05.04-8-001) Ebasco Services, Inc., "Final Geologic Report on Foundation Conditions: Power Plants, Dams, and Related Structures," Volume 1, 1981. FSAR Reference 2.5.4-245 (Reference RAI 02.05.04-8-002) ASCE, "Structural Analysis and Design of Nuclear Plant Facilities," 1980. FSAR Reference 2.5.4-246 (Reference RAI 02.05.04-8-003) ASCE, "Seismic Analysis of Safety-Related Nuclear Structures and Commentary," Report ASCE 4-98, 1998. FSAR Reference 2.5.4-247 (Reference RAI 02.05.04-8-004) WEC, "Site Specific SSI Analysis of Shearon Harris Site," Calculation HAG-1000-S2C-802, Rev. 0, January 28, 2008.
HAR-404	HAR	Pt 02	FSAR 02	Appendix AA	Editorial change	Change the first line of the header from "Shearon Harris Nuclear Power Plant Units 2 And 3" to ".....Units 2 and 3"
Chapter 3						
HAR-145	HAR	Pt 02	FSAR 03	03 / LOT	Editorial	Add Table 3.2-201 to the List of Tables.
HAR-038	HAR	Pt 02	FSAR 03	03.02.05	Editorial (HAR NPIT 335112)	1. Replace the reference to Table 3.2-2R in 3.2.2 with Table 3.2-201. 2. Add Table 3.2-201 to List of Tables in FSAR Chapter 3. 3. Bold the font of the table 3.2-201 title

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HAR-036	HAR	Pt 02	FSAR 03	03.05.T / T3.5-201	RAI LTR 007 response to RAI 02-02.01-02.02.02-2 (H-0382) per NPD-NRC-2009-127	Add new Table to Section 3.5: Table 3.5-201 Impact Area for Combined Containment/Shield and Auxiliary Buildings for Different Aircrafts. See H-0382 response in NPD-NRC-2009-127 for table layout and specifics.
HAR-037	HAR	Pt 02	FSAR 03	03.05.01.06	RAI LTR 007 response to RAI 02-02.01-02.02.02-2 (H-0382) per NPD-NRC-2009-127	Revise Section 3.5.1.6 per NPD-NRC-2009-127 response to HAR-0382. Change includes crash probability of small aircraft at Sanford Lee County Regional Airport.
HAR-039	HAR	Pt 02	FSAR 03	03.05.05	RAI LTR 007 response to RAI 02-02.01-02.02.02-2 (H-0382) per NPD-NRC-2009-127	After subsection 3.5.4 add new subsection 3.5.5 entitled: 3.5.5 REFERENCES 201. NUREG-0800, Standard Review Plan (SRP) 3.5.1.6, "Aircraft Hazards", Rev. 3, March 2007. 202. Department of Energy Standard DOE-STD-3014-96, "Accident Analysis Into Hazardous Facilities", October 1996."
5966	STD/HAR	Pt 02	FSAR 03	03.07.04.02.01	SUPERSEDED/Incorporated into Qb 5991 - BLN COL-SER-OI-Ch01 response to OI 01.04-01 item 4. RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	Revise Subsection 3.7.4.2.1 to add the following sentence to the end of the existing FSAR added text: The trigger value is initially set at 0.01g.
5991	STD	Pt 02	FSAR 03	03.07.04.02.01	Commitment made in response to RAI 01-02 item 3 in RAI Ltr 037, Revision 1, dated 10/23/2009 (see SNC Letter ND-09-1710)	3. COLA Part 2, FSAR Chapter 3, Subsection 3.7.4.2.1, will be revised to add the following sentence to the end of the existing FSAR added text: "the trigger value is initially set at 0.01g."
HAR-146	STD	Pt 02	FSAR 03	03.07.04.02.01	Conformance with R-COLA	COLA Part 2, FSAR Chapter 3, Subsection 3.7.4.2.1, change the LMA from "HAR COL 3.7-5" to "STD COL 3.7-5"
4799	STD	Pt 02	FSAR 03	03.09.03.04.04	Consistency with DCD	Revise Section title to add comma after Repair, to read "Inspection, Testing, Repair, and/or Replacement of Snubbers" Also impacts Table of Contents.
5591	STD	Pt 02	FSAR 03	03.09.03.04.04, item a.1	RAI LTR 007 S2 response to RAI 03.09.06-003 item 2	2. COLA, Part 2, Revision 1, FSAR Chapter 3, Subsection 3.9.3.4.4, item a.1, will be revised to read: A list of snubbers on systems which experience sufficient thermal movement to measure cold to hot position is included in Table 3.9-201.
5592	STD	Pt 02	FSAR 03	03.09.03.04.04, item a.3	RAI LTR 007 S2 response to RAI 03.09.06-003 item 3	3. COLA, Part 2, Revision 1, FSAR Chapter 3, Subsection 3.9.3.4.4, item a.3, will be revised to read: Safety-related snubbers are identified in Table 3.9-201, including the snubber identification and the associated system or component, e.g., line number. The snubbers on the list are hydraulic and constructed to ASME Section III, Subsection NF. The snubbers are used for shock loading only. None of the snubbers are dual purpose or vibration arrestor type snubbers.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-130	HAR	Pt 02	FSAR 03	03.09.03.04.04	Editorial to match R-COLA	COLA, Part 2, Revision 1, FSAR Chapter 3, Subsection 3.9.3.4.4, item c, third paragraph, 2nd sentence delete the second occurrence of the word "for."
2284	STD	Pt 02	FSAR 03	03.09.06.02.02	Consistent method for identifying referenced documents.	Add "(Reference 201)" {red, hyperlinked text} after "MPR-2524-A" on top of page 3.9-9 (new text to be inserted under the bulleted item titled, "Risk Ranking.")
5593	STD	Pt 02	FSAR 03	03.09.T / T3.9-201	RAI LTR 007 S2 response to RAI 03.09.06-003 item 4	4. COLA, Part 2, FSAR Chapter 3, Table 3.9-201 will be added to read: TABLE 3.9-201 SAFETY RELATED SNUBBERS
5691	STD	Pt 02	FSAR 03	03.09.T / T3.9-201	Editorial	COLA, Part 2, FSAR Chapter 3, Table 3.9-201 will be revised to add LMA of STD SUP 3.9-3.
Chapter 4						
No Change						
Chapter 5						
5551	STD	Pt 02	FSAR 05	05.02.04.01	COL-SER-OI-Ch05 response to 05.02-01	COLA Part 2, FSAR, Subsection 5.2.4.1, fifth paragraph, will be revised to read: The inservice inspection program is augmented for reactor vessel top head inspections by use of the ASME Code Case N-729-1, "Alternative Examination Requirements for Pressurized-Water Reactor (PWR) Vessel Upper Heads With Nozzles Having Pressure-Retaining Partial-Penetration Welds," as modified by the conditions specified in 10 CFR 50.55a(g)(6)(ii)(D).
HAR 209	STD	pt 02	FSAR 05	05.03.02.06	HAR Revision text does not match STD COL text due to typos	4 th paragraph, second sentence change text from "Selection is based on an evaluation of initial toughness (characterized by the reference temperature (RD _{NDT}) and Upper Shell Energy (USE), and the predicted effect of chemical composition nickel and residual copper) and neutron fluence on the toughness (RT _{NDT} shift and decrease in USE) during reactor operation." To the following: "Selection is based on an evaluation of initial toughness (characterized by the reference temperature (RD _{NDT}) and Upper Shell Energy (USE)), and the predicted effect of chemical composition (nickel and residual copper) and neutron fluence on the toughness (RT _{NDT} shift and decrease in USE) during reactor operation."

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR 210	STD	pt 02	FSAR 05	05.03.02.06	HAR Rev 1 text does not match STD COL due to typo	Next to last paragraph, beginning with "The above described", first sentence, second line, insert the word "the" between in and strength to make the sentence read as follows: The above described test specimens are to be used for determining changes in the strength and toughness of the surveillance materials resulting from neutron irradiation.
5552	STD	Pt 02	FSAR 05	05.03.02.06	COL-SER-OI-Ch05 response to OI 05.03-01	COLA Part 2, FSAR, Chapter 5, Subsection 5.3.2.6 (as revised by the Supplement 2 response to BLN-RAI-LTR-002) will be revised from: The type and quantity of test specimens exceed the minimum requirements of E185-82. To read: The type, quantity, and storage conditions (e.g., surveillance capsules backfilled with inert gas) of test specimens meet or exceed the minimum requirements of ASTM E-185.
Chapter 6						
5075	STD	Pt 02	FSAR 06	06.01.02.01.06	BLN-VOL-LTR-005 item 1	1. COLA Part 2, FSAR Chapter 6, Subsection 6.1.2.1.6 will be revised to add: Add the following after the third paragraph of the subsection titled "Service Level II Coatings" within DCD Subsection 6.1.2.1.6. Coating system inspection and monitoring requirements for the Service Level II coatings used inside containment will be performed in accordance with a program based on ASTM D5144 (Reference 201), "Standard Guide for Use of Protective Coating Standards in Nuclear Power Plants" and the guidance of ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant." Any anomalies identified during coating monitoring are resolved in accordance with applicable quality requirements.
5077	STD	Pt 02	FSAR 06	06.01.02.01.06	BLN-VOL-LTR-005 item 3	3. COLA Part 2, FSAR Chapter 6, Subsection 6.1.2.1.6, Service Level I and III Coatings, 1st paragraph, will be revised to read: Regulatory Guide 1.54 and ASTM D5144 (Reference 201) form the basis for the coating program.
5078	STD	Pt 02	FSAR 06	06.01.02.01.06	BLN-VOL-LTR-005 item 4	4. COLA Part 2, FSAR Chapter 6, Subsection 6.1.2.1.6, Service Level I and III Coatings, 2nd paragraph, will be revised to read: Coating system monitoring requirements for the containment coating systems are based on ASTM D5163 (Reference 202), "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant," and ASTM D7167 (Reference 203), "Standard Guide for Establishing Procedures to Monitor the Performance of Safety-Related Coating Service Level III Lining Systems in an Operating Nuclear Power Plant."
5076	STD	Pt 02	FSAR 06	06.01.03.02	BLN-VOL-LTR-005 item 2	2. COLA Part 2, FSAR Chapter 6, Add the following new subsection after subsection 6.1.3.2: The following information supplements the information provided in DCD subsection 6.1.4. 6.1.4 References 201. ASTM 5144-08, "Standard Guide for Use of Protective Coating Standards in Nuclear Power Plants" 202. ASTM D5163-05a, "Standard Guide for Establishing Procedures to Monitor the Performance of Coating Service Level I Coating Systems in an Operating Nuclear Power Plant" 203. ASTM D7167-05, "Standard Guide for Establishing Procedures to Monitor the Performance of Safety-Related Coating Service Level III Lining Systems in an Operating Nuclear Power Plant"

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5049	STD	Pt 02	FSAR 06	06.03.08.01	RAI LTR 030 S2 response to RAI 06.02.02-001 item 4 SUPERSEDES RAI LTR 030 S1 response to RAI 06.02.02-001	<p>6.3.8.1 Containment Cleanliness Program Insert the following information at the end of DCD Subsection 6.3.8.1:</p> <p>This COL Item is addressed below.</p> <p>Administrative procedures implement the containment cleanliness program. Implementation of the program minimizes the amount of debris left in containment following personnel entry and exits. The program is consistent with the containment cleanliness program limits discussed in DCD Subsection 6.3.8.1. The program includes, as a minimum, the following:</p> <p>Responsibilities</p> <p>The program defines the organizational responsibilities for implementing the program; defines personnel and material controls; and defines the inspection and reporting requirements.</p> <p>Implementation</p> <p>Containment Entry/Exit</p> <ul style="list-style-type: none"> • Controls to account for the quantities and types of materials introduced into the containment. • Limits on the types and quantities of materials, including scaffolding and tools, to ensure adequate accountability controls. This may be accomplished by the work management process. Storage of aluminum is prohibited without engineering authorization. Cardboard boxes or miscellaneous packing material is not brought into containment without approval. • If entries are made at power, prohibited materials and limits on quantities of materials that may generate hydrogen are established. • Controls for loose items, such as keys and pens, which could be inadvertently left in containment. • Methods and controls for securing any items and materials left unattended in containment. • Administrative controls for accounting for tools, equipment and other material are established. • Administrative controls for accounting of the permanent removal of materials previously introduced into the containment. • Limits on the types and quantities of materials, including scaffolding and tools, that may be left unattended in containment during outages and power operation. Types of materials considered are tape, labels, plastic film, and paper and cloth products.
3972	STD/HAR	Pt 02	FSAR 06	06.04.04.02	HAR RAI LTR 031 (H-0387 per NPD-NRC-2009-030) supercedes the STD response in RAI LTR 137 response to 02.02.03-10, item 2	<p>Revise FSAR Chapter 6, Subsection 6.4.4 to add the following information with LMAs STD SUP 6.4-1 and/or STD COL 6.4-1:</p> <p>Insert the following information at the end of Subsection 6.4.4.2</p> <p>Table 6.4-201 provides additional details regarding the evaluated onsite chemicals.</p>

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3995	STD	pt 02	FSAR 06	06.04.03	BLN RAI LTR No. 168 response dated 1/5/2010 for RAI 06.04-07	Add the following new paragraphs to the STD COL item in subsection 6.4.3: The procedures and training address the toxic chemical events addressed in sections 2.2 and 6.4 consistent with the guidance provided in regulatory position c.5 of Regulatory Guide 1.78, including arrangements with Federal, State, and local agencies or other cognizant organizations for the prompt notification of the nuclear power plant when accidents involving hazardous chemicals occur within five miles of the plant. The procedures include the conduct of periodic surveys of stationary and mobile sources of hazardous chemicals affecting the evaluations consistent with the guidance provided in regulatory position 2.5 of Regulatory Guide 1.196. The procedures include appropriate reviews of configuration of the control room envelope and habitability systems consistent with the guidance provided in regulatory position 2.2.1 of Regulatory Guide 1.196. The procedures also include periodic assessments of the control room habitability systems' material condition, configuration controls, safety analyses, and operating and maintenance procedures consistent with the guidance provided in regulatory position 2.2.1 Regulatory Guide 1.196 Procedures for testing and maintenance are consistent with the design requirements of the DCD including the guidance
HAR-140	HAR	Pt 02	FSAR 06	06.04.T / T6.4-201	Table 6.4-201 Note (1) SUPERSEDED by Qb 5013. RAI LTR 031 response to RAI 06.04-3 (H-0387) per NPD-NRC-2009-030	3. COLA Part 2, FSAR Chapter 6, new Table 6.4-201 (including LMAs) will be added.
5013	STD/HAR	Pt 02	FSAR 06	06.04.T / T6.4-201	Clarification of table added by RAI LTR 137 response to 02.02.03-10, item 3	COLA Part 2, FSAR Chapter 6, Table 6.4-201 - Onsite Chemicals, footnote 1, will be revised to read (adds new last sentence): 1) This table supplements DCD Table 6.4-1. Quantities are by largest container content for the specified location per unit. Quantities and distances are bounding calculation values and not actual amounts and distances.
HAR-141	HAR	Pt 02	FSAR 06	06.04.T / T6.4-201	To maintain numbering consistency with R-COLA Table (Vogtle)	COLA Part 2, FSAR Chapter 6, Table 6.4-201 - Onsite Chemicals, add Note (2) to read: 2) Not used.
5725	STD/HAR	Pt 02	FSAR 06	06.04.T / T6.4-201	Addition to table added by RAI LTR 137 response to 02.02.03-10, item 3	COLA Part 2, FSAR Chapter 6, Table 6.4-201 - Onsite Chemicals, will be revised to add superscript note (3) to Corrosion Inhibitor and Scale Inhibitor Quantity values; and to add new Note 3) at the bottom of the table that reads: "3) Corrosion inhibitor and scale inhibitor are mixed together in a 10,000 gal tank."
Chapter 7						
No Change						
Chapter 8						

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5093	STD	Pt 02	FSAR 08	08.02.01.02	First change SUPERSEDED by HAR-167 RAI LTR 027 S1 response to RAI 14.03-001 item 1 SER with Open Items Confirmatory Item 8.2A-1 SER with Open Items Confirmatory Item 14.3.1	1. COLA Part 2, Subsection 8.2.1.2 (with LMA of HAR COL 8.2-1), is revised to read: Add the following paragraph at the end of the first paragraph of DCD Subsection 8.2.1.2. The transformer area for each unit contains the main step-up (three single phase transformers plus one spare), three unit auxiliary transformers, and two reserve auxiliary transformers. The two reserve auxiliary transformers are connected to the 230 kV switchyard. The secondary windings (230 kV side) of the main step-up are connected in wye configuration and connected to the 230 kV switchyard. Add the following paragraph and subsections at the end of the DCD Subsection 8.2.1.2. Each transformer is connected to the switchyard by an offsite circuit beginning at the switchyard side of the breaker(s) within the switchyard and ending at the high voltage terminals of the GSU and RATs.
HAR-167	STD	Pt 02	FSAR 08	08.02.01.02	Incorporate site-specific description to Qb 5093	COLA Part 2, Subsection 8.2.1.2 (with LMA of HAR COL 8.2-1), is revised to read: Add the following paragraph at the end of the first paragraph of DCD Subsection 8.2.1.2. The transformer area for each unit contains the main step-up transformer (the GSU) (three single phase transformers plus one spare), three unit auxiliary transformers (the UATs), and two reserve auxiliary transformers (the RATs). The two RATs are connected to the 230 kV switchyard. The high side (230 kV) winding of the GSUs is connected in wye configuration to the 230 kV switchyard.
HAR-041	HAR	Pt 02	FSAR 08	08.02.01.02.01	RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	Revise 8.2.1.2.1 to add the following paragraph at the end of the subsection: The protective devices controlling the switchyard breakers are set with consideration given to preserving the plant grid connection following a turbine trip.
HAR-042	HAR	Pt 02	FSAR 08	08.02.02	RAI LTR 058 response to RAI 08.02-14 (H-0428 NPD-NRC-2009-045)	Revise subsection 8.2.2 to read: Table 8.2-203 confirms that the interface requirements for steady state load, nominal voltage, allowable voltage regulation, nominal frequency, allowable frequency fluctuation, maximum frequency decay rate, and limiting under frequency values for RCP have been met. Preliminary assessment indicates that the plant interface requirement for inrush kVA for motors has been met.
HAR-043	HAR	Pt 02	FSAR 08	08.02.T / T8.2-203	RAI LTR 058 response to RAI 08.02-14 (H-0428 NPD-NRC-2009-045)	Add new Table 8.2-203 with an LMA of HAR COL 8.2-2 as shown in response to H-0428 in NPD-NRC-2009-045.
HAR-131	HAR	Pt 02	FSAR 08	08 TOC	Editorial to match R-COLA	In the title for Subsection 8.3.3 in the TOC change "ON-SITE" to "ONSITE" to match R-COLA.
4884	STD	Pt 02	FSAR 08	08.03.01.01.02.04	RAI LTR 149 response to RAI 08.03.01-002	COLA Part 2, FSAR Chapter 8, Section 8.3.1.1.2.4 will be revised from: Operation, inspection and maintenance procedures consider both the diesel generator manufacturer's recommendations and industry diesel working group recommendations. To read: Operation, inspection and maintenance (including preventive, corrective, and predictive maintenance) procedures consider both the diesel generator manufacturer's recommendations and industry diesel working group recommendations.

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2493	STD	Pt 02	FSAR 08	08.03.01.01.06	RAI LTR 138 in response to RAI 08.03.01-001.	COLA Part 2, FSAR Chapter 8, Subsection 8.3.1.1.6 will be revised To read: Procedures implement periodic testing of protective devices that provide penetration overcurrent protection. A sample of each different type of overcurrent device is selected for periodic testing during refueling outages. Testing includes: • Verification of thermal and instantaneous trip characteristics of molded case circuit breakers. • Verification of long time, short time, and instantaneous trips of medium voltage vacuum circuit breakers. • Verification of long time, short time, and instantaneous trips of low voltage air circuit breakers. • Verification of Class 1E and non-Class 1E dc protective device characteristics (except fuses) per manufacturer recommendations, including testing for overcurrent interruption and/or fault current limiting. Penetration protective devices are maintained and controlled under the plant configuration control program. A fuse control program, including a master fuse list, is established based on industry operating experience.
4943	STD	Pt 02	FSAR 08	08.03.01.04	RAI LTR 151 response to RAI 08.02-010(b)	COLA Part 2, FSAR Chapter 8, will be revised to add the following paragraph at the end of Subsection 8.3.1.4. 8.3.1.4 Inspection and Testing Add the following text at the end of DCD Subsection 8.3.1.4 Procedures are established for periodic verification of proper operation of the Onsite AC Power System capability for automatic and manual transfer from the preferred power supply to the maintenance power supply and return from the maintenance power supply to the preferred power supply.
5958	STD	Pt 02	FSAR 08	08.03.01.04	Revises BLN RAI LTR 151 response to RAI 08.02-010(b)	COLA Part 2, FSAR Chapter 8, Subsection 8.3.1.4, will be revised to add an LMA of STD SUP 8.3-4. Also revise LMA on 8.3.2.1.1.1 from STD SUP 8.3-1 to STD SUP 8.3-3. There is a previous use of SUP 8.3-1.
Chapter 9						
HAR-135	STD	Pt 02	FSAR 09	09.01.04.04	Southern Company response to NRC BLN SER Open Items for FSAR Chapter 9 (NRAI 00348603-15)	COLA Part 2, FSAR Chapter 9, Subsection 9.1.4.4, will be revised to add the following sentence at the end of the STD COL 9.1-5 description. The light load handling program, including system inspections, is implemented prior to receipt of fuel on-site.
HAR-136	STD	Pt 02	FSAR 09	09.01.05.04	Southern Company response to NRC BLN SER Open Items for FSAR Chapter 9 (NRAI 00348603-15)	COLA Part 2, FSAR Chapter 9, Subsection 9.1.5.4, will be revised to add the following sentence at the end of the STD COL 9.1-5 description. The overhead heavy load handling program, including system inspections, is implemented prior to receipt of fuel on-site.
5862	STD	Pt 02	FSAR 09	09.01.06	RAI LTR 165 in response to RAI 09.01.02-001 item 1 Duplicate of QB Item #5035	1- COLA Part 2, FSAR Chapter 9, Subsection 9.1.6 will be revised to read: STD COL 9.1-7 A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and / or visual examination. The program will also include tests to monitor changes in physical properties of the absorber material, including neutron attenuation and thickness measurements.

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HAR-133	STD	Pt 02	FSAR 09	09.01.06	Southern Company response to NRC BLN SER Open Items for FSAR Chapter 9 (NRAI 00348603-15)	COLA Part 2, FSAR Chapter 9, Subsection 9.1.6, will be revised to add the following to the end of the STD COL 9.1-7 description: The program will include the methodology and acceptance criteria for the tests listed and provide corrective action requirements based on vendor recommendations and industry operating experience. The program will be implemented through plant procedures.
HAR-044	HAR	Pt 02	FSAR 09	09.02.06.02.01	Errata - identified by NRC	Revise the LMA for inserted text for section 9.2.6.2.1 from HAR COL 9.2-1 to HAR SUP 9.2-1.
HAR-290	HAR	Pt 02	FSAR 09	09.02.06.02.01	Global change identified by NRC to clarify site-specific information required by DCD. Makes level of detail consistent with LNP	COLA Part 2, FSAR Chapter 9, Subsection 9.2.6, add the following new subsections after Subsection 9.2.6.2.1: <u>9.2.6.2.2 General Description</u> Replace the text under Trunk Line in DCD Subsection 9.2.6.2.2 (to remove the reference to the "site" treatment plant) with: The trunk line is the primary line that the sanitary drainage system piping connects into for the transport of the sanitary drainage to the treatment plant. Replace the last sentence under Manholes in DCD Subsection 9.2.6.2.2 (to remove the reference to the "site specific") with: Quantity and locations of the manholes are determined by these criteria. Replace the last sentence under Lift Stations in DCD Subsection 9.2.6.2.2 (to remove the reference to the "site specific") with: Quantity and locations of the lift stations are determined by these criteria.
HAR-148	HAR	Pt 02	FSAR 09	09.02.06.02.01	Global change identified by NRC to clarify site-specific information required by DCD. Makes level of detail consistent with LNP	<u>9.2.6.4 Test and Inspection</u> Replace the last sentence in DCD Subsection 9.2.6.4 (to remove the reference to the "site" specific governing codes) with: System inspection is performed in compliance with the Uniform Plumbing Code Section 103.5. <u>9.2.6.5 Instrument Application</u> Replace the text under DCD Subsection 9.2.6.5 (to remove the reference to the "site" treatment plant) with: Sufficient instrumentation for operation is provided to monitor the treatment plant.
HAR-045	HAR	Pt 02	FSAR 09	09.02.11	RAI LTR 052 response to 09.02.01-7 (H-0398) NPD-NRC-2009-0018	Revise text for section as listed in RAI response to H-0398 in NPD-NRC-2009-0018

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HAR-046	HAR	Pt 02	FSAR 09	09.02.11.04	RAI LTR 069 response to 09.05.01-4 (H-0490) NPD-NRC-2009-0227	Add the following paragraph to after the last paragraph in FSAR Subsection 9.2.11.4: "Chemical injection points are provided to treat the raw water system supply to the FPS fire water storage tanks with sodium hypochlorite. Effectiveness of the treatment is monitored by periodic sample inspections of the wetted portions of the FPS headers." Note: RAI LTR 069 called for adding this paragraph to Subsection 9.2.11.3. Subsection 9.2.11.4 is the appropriate subsection for this paragraph.
2145	STD	Pt 02	FSAR 09	09.05.01.08.06	RAI LTR 128 response to RAI 09.05.01-16 item 1	1- COLA Part 2, FSAR Chapter 9 Subsection 9.5.1.8.6 will be revised To read: 9.5.1.8.6 Testing and Inspection Testing and inspection requirements are imposed through administrative procedures. Maintenance or modifications to the fire protection system are subject to inspection for conformation to design requirements. Procedures governing the inspection, testing, and maintenance of fire protection alarm and detection systems, and water-based suppression and supply systems, utilize the guidance of NFPA 72 (DCD Reference 9.5.5.2) and NFPA 25 (Reference 212). Installation of portions of the system where performance cannot be verified through pre-operational tests, such as penetration seals, fire retardant coatings, cable routing, and fire barriers are inspected. Inspections are performed by individuals knowledgeable of fire protection design and installation requirements. Open flame or combustion generated smoke is not used for leak testing or similar procedures such as air flow determination. Inspection and testing procedures address the identification of items to be tested or inspected, responsible organizations for the activity, acceptance criteria, documentation requirements and sign-off requirements.
HAR-047	STD	Pt 02	FSAR 09	09.05.T / T9.5-201 Item 111	Editorial Correction to BLN RAI 574 (NRAI-031)	In fifth column of Item 111 of Table 9.5-201 revise "Subsection" to "Subsections" and "Addresses" to "Address".
2146	STD	Pt 02	FSAR 09	09.05.05 / REF 212	RAI LTR 128 response to RAI 09.05.01-16 item 2	COLA Part 2, FSAR Chapter 9, Subsection 9.5.5 will be revised to add a new Reference 212 as follows: 212. National Fire Protection Association, "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," NFPA 25, 2008.
Chapter 10						
5080	STD	Pt 02	FSAR 10	10.01.03.01	SUPERSEDED by Qb 5701 - RAI LTR 018 S1 response to RAI 10.03.06-002 item 1 SER with Open Items Confirmatory Item 10.1	In addition, the FAC monitoring program considers the information of Generic Letter 89-08 and industry guidelines. To read: In addition, the FAC monitoring program considers the information of Generic Letter 89-08, EPRI NSAC-202L-R3, and industry operating experience. The program requires a grid layout for obtaining consistent pipe thickness measurements when using Ultrasonic Test Techniques. The FAC program obtains actual thickness measurements for highly susceptible FAC locations for new lines as defined in EPRI NSAC-202L-R3. At a minimum, a Pass 1 Analysis is used for low susceptible FAC locations and a Pass 2 Analysis for highly susceptible FAC locations will be considered. To determine wear of piping and components where operating conditions are inconsistent or unknown the guidance provided in EPRI NSAC-202L is used to determine wear rates. The above revised material will be further revised from: At a minimum, a Pass 1 Analysis is used for low susceptible FAC locations and a Pass 2 Analysis for highly susceptible FAC locations will be considered. To read: At a minimum, a CHECWORKS type Pass 1 Analysis is used for low susceptible FAC locations and a CHECWORKS type

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						<p>In addition, the FAC monitoring program considers the information of Generic Letter 89-08 and industry guidelines.</p> <p>To read:</p> <p>In addition, the FAC monitoring program considers the information of Generic Letter 89-08, EPRI NSAC-202L-R3, and industry operating experience. The program requires a grid layout for obtaining consistent pipe thickness measurements when using Ultrasonic Test Techniques. The FAC program obtains actual thickness measurements for highly susceptible FAC locations for new lines as defined in EPRI NSAC-202L-R3. At a minimum, a Pass 1 analysis is used for low and highly susceptible FAC locations and a Pass 2 analysis is used for highly susceptible FAC locations when the Pass 1 analysis results warrant. To determine wear of piping and components where operating conditions are inconsistent or unknown, the guidance provided in EPRI NSAC-202L is used to determine wear rates.</p> <p>In a future revision, the above revised material will be further revised from:</p> <p>The FAC program obtains actual thickness measurements for highly susceptible FAC locations for new lines as defined in EPRI NSAC-202L-R3. At a minimum, a Pass 1 analysis is used for low and highly susceptible FAC locations and a Pass 2 analysis is used for highly susceptible FAC locations when the Pass 1 analysis results warrant.</p> <p>To read:</p>
5701	STD	Pt 02	FSAR 10	10.01.03.01	RAI LTR 18 S2 response to RAI 10.03.06-002 item 1 SER with Open Items Confirmatory Item 10.1.1	The FAC program obtains actual thickness measurements for highly susceptible FAC locations for new lines as defined in
HAR-144	HAR	Pt 02	FSAR 10	10.01.03.01	Editorial change so standard words match R-COLA	COLA Part 2, FSAR, Subsection 10.1.3.1, next to last sentence, remove "a" in front of first instance of "Pass 1" and remove "the" in front of second instance of "Pass 1"
					SUPERSEDED by Qb 5702 - RAI LTR 018 S1 response to RAI 10.03.06-002 item 2 SER with Open Items Confirmatory Item 10.1.1	2. COLA Part 2, FSAR Section 10.1, will be further revised to include a new Subsection 10.1.4, References, following Subsection 10.1.3:
5081	STD	Pt 02	FSAR 10	10.01.04		<p>Add the following after DCD Subsection 10.1.3:</p> <p>10.1.4 References</p> <p>201. EPRI NSAC-202L-R3, Recommendations for an Effective Flow-Accelerated Corrosion Program (NSAC-202L-R3), Electric Power Research Institute (EPRI) Technical Report 1011838, Palo Alto, CA, 2006.</p>
					RAI LTR 18 S2 response to RAI 10.03.06-002 item 2	2. COLA Part 2, FSAR Section 10.1, will be further revised to include a new Subsection 10.1.4, References, following Subsection 10.1.3:
5702	STD	Pt 02	FSAR 10	10.01.04		<p>Add the following after DCD Subsection 10.1.3:</p> <p>10.1.4 References</p> <p>201. EPRI NSAC-202L-R3, Recommendations for an Effective Flow-Accelerated Corrosion Program (NSAC-202L-R3), Electric Power Research Institute (EPRI) Technical Report 1011838, Palo Alto, CA, 2006.</p>
4898	STD	Pt 02	FSAR 10	10.02.02	Consistency of separating LMA associated text.	COLA Part 2, FSAR Chapter 10, Subsection 10.2.2, will be revised to add a separator bar between STD SUP 10.2-1 text and the STD SUP 10.2-4 text.
HAR 203	HAR	Pt 02	FSAR 10	10.04.F / F10.4-201	RAI LTR 052 S response to 09.02.01-7 (H-0447) NPD-NRC-2009-0073	Replace Figure 10.4-201 revision 0 with revision dated 3-27-09 in RAI response to H-0447 in NPD-NRC-2009-0073. This change supercedes response to change number 2 of NPD-NRC-2009-0018 (H-0398)

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HAR 204	HAR	Pt 02	FSAR 10	10.04.F / F10.4-202	RAI LTR 052 S response to 09.02.01-7 (H-0447) NPD-NRC-2009-0073	Replace Figure 10.4-202 revision 0 with revision dated 3-27-09 in RAI response to H-0447 in NPD-NRC-2009-0073. This change supercedes response to change number 3 of NPD-NRC-2009-0018 (H-0398)
HAR 205	HAR-COL	Pt 02	FSAR 10	10.04.05.02.02	HAR-DCD 17 Section 10.4.12.1 response action item (NPIT 359002)	COLA Part 2, FSAR, Subsection 10.4.5.2.2, replace the current text for LMA 10.4-1 on page 10.4-4 with: "The primary drainage path for the condenser water boxes and tube bundles is via gravity to the cooling tower basins using the cooling tower bypass lines. As an alternate, condenser water box drain lines are provided that direct drainage to turbine building sumps"
Chapter 11						
HAR-200	HAR	Pt 02	FSAR 11	11.02.01.02.04	RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200	Revise Section 11.2 to add the following subsection with LMA of HAR SUP 11.2-2: 11.2.1.2.4 Controlled Release of Radioactivity Add the following new paragraph to the end of DCD Subsection 11.2.1.2.4: The HAR site WLS effluent discharge release point is where the WLS effluent discharge pipe connects to the cooling tower blowdown pipe.
2281	STD/HAR	Pt 02	FSAR 11	11.02.01.02.04	BLN-RAI-LTR 109 S1 response to RAI 12.03-12.04-01, item 3	COLA Part 2, FSAR Chapter 11 will be revised to change last paragraph of FSAR (i.e., DCD) Subsection 11.2.1.2.4 to read: The monitored radwaste discharge pipeline is engineered to preclude leakage to the environment. This pipe is routed from the auxiliary building to the radwaste building (the short section of pipe between the two buildings is fully available for visual inspection as noted above) and then out of the radwaste building to the licensed release point for dilution and discharge. The discharge radiation monitor and isolation valve are located inside the auxiliary building. The exterior piping is designed to preclude inadvertent or unidentified releases to the environment. No valves, vacuum breakers, or other fittings are incorporated outside of buildings. This greatly reduces the potential for undetected leakage from this discharge to the environment at a non-licensed release point, and supports compliance with 10 CFR 20.1406 (Reference 5).
5633	STD/HAR	Pt 02	FSAR 11	11.02.01.02.04	Editorial supplement for consistent incorporation of RAI LTR 109 S1 response to RAI 12.03-12.04-01, item 3	COLA Part 2, FSAR Chapter 11 will be revised to include the following lead-in sentence prior to the change for the last paragraph of FSAR (i.e., DCD) Subsection 11.2.1.2.4 identified in Qb 2281. Replace the last paragraph in DCD Subsection 11.2.1.2.4 with the following information:
HAR-153	STD/HAR	Pt 02	FSAR 11	11.02.01.02.05.02, 11.02.05.01	Consistency with R-COLA	COLA Part 2, FSAR, Chapter 11, Subsection 11.2.1.2.5.2, change LMA from "HAR COL 11.2-1" to "STD COL 11.2-1" and delete second LMA and remove horizontal line separating first and second paragraphs. COL Part 2, FSAR, Chapter 11, Subsection 11.2.5.1, remove LMA "HAR COL 11.2-1"
HAR-160	STD/HAR	Pt 02	FSAR 11	11.02.01.02.05.02,	Consistency with R-COLA	COLA Part 2, FSAR, Chapter 11, Subsection 11.2.1.2.5.2, revise the last sentence in the first paragraph from When the A2 quantities are exceeded, the liquid effluent is processed in the Seismic Category I Auxiliary Building. To read: When the A2 quantities are exceeded, the liquid effluent may be processed in the Seismic Category I auxiliary building.
HAR-154	HAR	Pt 02	FSAR 11	11.02.T / T11.2-202	Editorial and consistency with R-COLA	COLA Part 2, FSAR Chapter 11, Table 11.2-202, add LMA "HAR COL 11.5-3" to Table 11.2-202.

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HAR-155	HAR	Pt 02	FSAR 11	11.02.T / T11.2-202	Editorial and consistency with R-COLA	COLA Part 2, FSAR Chapter 11, Table 11.2-203, add LMAs "HAR COL 11.5-3" and "HAR COL 11.2-2" to Table 11.2-203.
5293	STD/HAR	Pt 02	FSAR 11	11.03.03	RAI LTR 065 response to RAI 01-3 (H-0482) per NPD-NRC-2009-200 and BLN RAI LTR 156 response to RAI 01-014 item 10	Revise Section 11.3 to add the following subsection with LMA of STD SUP 11.3-2: 11.3.3 Radioactive Releases Add the following new paragraph at the end of DCD Subsection 11.3.3: There are no gaseous effluent site interface parameters outside of the Westinghouse scope.
HAR-156	HAR	Pt 02	FSAR 11	11.03.03.04.02	Editorial and consistency with R-COLA	COLA Part 2, FSAR, Chapter 11, Subsection 11.3.3.4.2, delete LMA "HAR COL 11.3-1" and remove horizontal line above Subsection 11.3.3.4.2.
HAR-157	HAR	Pt 02	FSAR 11	11.03.T / T11.3-206	Editorial and consistency with R-COLA	COLA Part 2, FSAR Chapter 11, Table 11.3-206, add LMAs "HAR COL 11.5-3" and "HAR COL 11.3-1" to Table 11.3-206.
HAR-158	HAR	Pt 02	FSAR 11	11.03.T / T11.3-208	Editorial and consistency with R-COLA	COLA Part 2, FSAR Chapter 11, Table 11.3-208, add LMA "HAR COL 11.5-3" to Table 11.3-208.
HAR-159	HAR	Pt 02	FSAR 11	11.03.T / T11.3-209	Editorial and consistency with R-COLA	COLA Part 2, FSAR Chapter 11, Table 11.3-206, add LMA "HAR COL 11.3-1" to Table 11.3-209.
HAR-201	HAR	Pt 02	FSAR 11	11.04.02.04.03	RAI LTR 068 response to RAI 11.04-2 (H-0497) per NPD-NRC-2009-225	COLA Part 2, FSAR Chapter 11, Subsection 11.4.2.4 will be revised to add a new subsection with the LMA of HAR COL 11.4-2 to read: Add the following after DCD Subsection 11.4.2.4.2: 11.4.2.4.3 Temporary Storage of Low-Level Radioactive Waste In the event that off-site shipping is disrupted or facilities are not available to accept radwaste when HAR Units 2&3 become operational, as described in DCD Section 11.4.2.1 paragraph ten, temporary storage capability on-site is available for greater than two years at the expected rate of radwaste generation and greater than one year at the maximum rate of radwaste generation. During this period, the implementation of additional waste minimization strategies could extend the duration of temporary radwaste storage capability. If additional temporary radwaste storage is eventually required, then on-site facilities could be constructed utilizing the design guidance provided in NUREG-0800, Standard Review Plan Chapter 11 Radioactive Waste Management Appendix 11.4-A, Design Guidance for Temporary Storage of Low-Level Radioactive Waste.
4946	STD	Pt 02	FSAR 11	11.04.06	BLN-VOL-LTR-003 response to NEI 07-10 item 1	1. COLA Part 2, FSAR Chapter 11, Subsection 11.4.6, will be revised to read: A Process Control Program (PCP) is developed and implemented in accordance with the recommendations and guidance of NEI 07-10A (Reference 201). The PCP describes the administrative and operational controls used for the solidification of liquid or wet solid waste and the dewatering of wet solid waste.

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HAR-202	HAR	Pt 02	FSAR 11	11.04.06	RAI LTR 068 response to RAI 11.04-1 (H-0496) per NPD-NRC-2009-225	COLA Part 2, FSAR Chapter 11, Subsection 11.4.6 will be revised to add two new paragraphs at the end of STD COL 11.4-1 with LMA of HAR SUP 11.4-1: All packaged and stored radwaste will be shipped to offsite disposal/storage facilities and temporary storage of radwaste is only provided until routine offsite shipping can be performed. Accordingly, there is no expected need for permanent on-site storage facilities at HAR 2 and 3. If additional storage capacity for Class B and C waste is required, further temporary storage would be developed in accordance with NUREG-0800, Standard Review Plan 11.4, Appendix 11.4-A. To the extent that additional storage could be needed sometime in the future, the existing regulatory framework would allow Progress Energy to conduct written safety analyses under 10 CFR 50.59. If the additional storage does not satisfy 10 CFR 50.59, a license amendment would be required.
4947	STD	Pt 02	FSAR 11	11.04.07	BLN-VOL-LTR-003 response to NEI 07-10 item 2	2. COLA Part 2, FSAR Chapter 11, Subsection 11.4.7, will be revised to read: 201. NEI 07-10A, "Generic FSAR Template Guidance for Process Control Program (PCP)," Revision 0, March 2009.
4944	STD	Pt 02	FSAR 11	11.05.07	BLN-VOL-LTR-003 response to NEI 07-09 item 1	1. COLA Part 2, FSAR Chapter 11, Subsection 11.5.7, will be revised to read: An Offsite Dose Calculation Manual (ODCM) is developed and implemented in accordance with the recommendations and guidance of NEI 07-09A (Reference 202). The ODCM contains the methodology and parameters used for calculating doses resulting from liquid and gaseous effluents. The ODCM addresses operational setpoints, including planned discharge rates, for radiation monitors and monitoring programs (process and effluent monitoring and environmental monitoring) for the control and assessment of the release of radioactive material to the environment. The ODCM provides the limitations on operation of the radwaste systems, including functional capability of monitoring instruments, concentrations of effluents, sampling, analysis, 10 CFR Part 50, Appendix I dose and dose commitments, and reporting. The ODCM will be finalized prior to fuel load with site-specific information.
4945	STD	Pt 02	FSAR 11	11.05.08	BLN-VOL-LTR-003 response to NEI 07-09 item 2	2. COLA Part 2, FSAR Chapter 11, Subsection 11.5.8, will be revised to read: 202. NEI 07-09A, "Generic FSAR Template Guidance for Offsite Dose Calculation Manual (ODCM) Program Description," Revision 0, March 2009.
Chapter 12						
6061	STD	Pt 02	FSAR 12	12.01	COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 5 SNC Letter ND-09-1770	5. COLA Part 2, FSAR Chapter 12, Section 12.1, will be revised to read: This section incorporates by reference NEI 07-08A, Generic FSAR Template Guidance for Ensuring That Occupational Radiation Exposures Are As Low As Is Reasonably Achievable (ALARA), Revision 0. See Table 1.6-201. ALARA practices are developed in a phased milestone approach as part of the procedures necessary to support the Radiation Protection Program. Table 13.4-201 describes the major milestones for ALARA procedures development and implementation.
6062	STD	Pt 02	FSAR 12	12.01	COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 6 SNC Letter ND-09-1770	6. COL Part 2 FSAR Chapter 12, Section 12.1, will be revised to add new text (with an LMA of STD COL 12.1-1) that reads: Revise the last sentence of NEI 07-08A Subsection 12.1.2 to read: ALARA procedures are established, implemented, maintained and reviewed consistent with 10 CFR 20.1101 and the quality assurance criteria described in Part III of the Quality Assurance Program Description, which is discussed in Section 17.5.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
6063	STD	Pt 02	FSAR 12	12.01.03	COL-SER-OI-Ch12 S1 response to OI 12.01-001 item 7 SNC Letter ND-09-1770	7. COL Part 2 FSAR Chapter 12, Section 12.1.3, will be revised to read: This COL item is addressed in NEI 07-08A and Appendix 12AA.
5912	STD	Pt 02	FSAR 12	12.03.05.01	COL-SER-CI-Ch12 response to CI 12.01.01 item 7 SNC Letter #ND-09-1529	7. COLA Part 2, FSAR Chapter 12, Section 12.3.5.1, will be revised to read: This COL item is addressed in Subsection 12.5.4 and Appendix 12AA.
HAR-054	HAR	Pt 02	FSAR 12	12.04.01.09.03	RAI LTR 059 response to RAI 12.03-12.04-1 (H-0442 in NPD-NRC-2009-047)	Delete the third bullet in 12.4.1.9.3 and revise to read: The direct radiation exposure was based on a 2,080-hour work year and an exposure rate of 11.1 μ rem/hr or 24 mrem/yr. This exposure was determined from HNP protected area fence line Thermo Luminescent Dosimeter (TLD) readings that have been compiled over approximately 7 years. There are 16 TLD locations along the HNP protected area fence line as shown on Figure 12.4-201. The maximum dose of gamma radiation over any 90-day period for the 16 protected area fence line TLD locations was approximately 24 mrem (without background correction) as shown on Figure 12.4-202. The construction workers would be located much farther from the HNP operating radiation sources than the distances reflected in the protected area fence line TLD locations, since the HAR 2 and 3 facilities are located outside the HNP protected area fence line. No credit for the reduction in potential dose rate is given for the distance from the HNP protected area fence line TLD locations to the HAR facility construction areas. Delete the fifth bullet.
5244	STD	Pt 02	FSAR 12	12.04.01.09.05	COL-SER-OI-Ch12 response to OI 12.04-01 (Qb 3515)	COLA Part 2, FSAR Chapter 12, Subsection 12.4.1.9, will be revised to include the following new subsection (12.4.1.9.4.5) at the end of the section with a Left Margin Annotation (LMA) of STD SUP 12.4-1: STD SUP 12.4-1 12.4.1.9.4 Operating Unit Radiological Surveys The operating unit conducts radiological surveys in the unrestricted and controlled area and radiological surveys for radioactive materials in effluents discharged to unrestricted and controlled areas in implementing 10 CFR 20.1302. These surveys demonstrate compliance with the dose limits of 10 CFR 20.1301 for construction workers.
HAR-056	HAR	Pt 02	FSAR 12	12.04.201.F / F12.4-201	RAI LTR 059 response to RAI 12.03-12.04-1 (H-0442 in NPD-NRC-2009-047)	Add Figure 12.4-201 as attached to RAI LTR -059 response to H-0442 in NPD-NRC-2009-047)
HAR-057	HAR	Pt 02	FSAR 12	12.04.202.F / F12.4-202	RAI LTR 059 response to RAI 12.03-12.04-1 (H-0442 in NPD-NRC-2009-047)	Add Figure 12.4-202 as attached to RAI LTR -059 response to H-0442 in NPD-NRC-2009-047)
5913	STD	Pt 02	FSAR 12	12.05	COL-SER-CI-Ch12 response to CI 12.01.01 item 8 SNC Letter #ND-09-1529	8. COLA Part 2, FSAR Chapter 12, Section 12.5, will be revised to add new text after Section 12.5.2.2 (with an LMA of STD COL 12.3-1) that reads: 12.5.4 Controlling Access and Stay Time Add the following text to the end of DCD Subsection 12.5.4. STD COL 12.3-1 A closed circuit television system may be installed in high radiation areas to allow remote monitoring of individuals entering high radiation areas by personnel qualified in radiation protection procedures.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5914	STD	Pt 02	FSAR 12	12AA	COL-SER-CI-Ch12 response to CI 12.01.01 item 9 SNC Letter #ND-09-1529	9. COLA Part 2, FSAR Chapter 12, Appendix 12AA will be revised in its entirety as shown in Attachment 12.01-01A of COL-SER-CI-CH12 (SNC Letter #ND-09-1529). The changes include those provided in the response to BLN-RAI-LTR-142 (NRC RAI Number 01-11, ADAMS ML083510576).
3478	STD	Pt 02	FSAR 12	12AA	RAI LTR 142 response to RAI 01-11, item 5	5. COLA Part 2, FSAR Chapter 12, Appendix 12AA, Revision 1, will be revised to include the following additional statements: Revise the References section, Reference 8, to read as follows: 8. Regulatory Guide 1.97, Revision 3, "Instrumentation for Light-Water-Cooled Nuclear Power Plants to Assess Plant and Environs Conditions During and Following an Accident."
6064	STD	Pt 02	FSAR 12	12AA.05.04.08	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 1 SNC Letter #ND-09-1770	1. COLA Part 2, FSAR Chapter 12, Appendix 12AA, text after the last bullet of NEI 07-03 Subsection 12.5.4.8 will be revised to read: This subsection adopts NEI 08-08A (Reference 201), for a description of the operational and programmatic elements and controls that minimize contamination of the facility, site, and the environment, to meet the requirements of 10 CFR 20.1406.
2572	STD	Pt 02	FSAR 12	12AA.05.04.14	BLN-RAI-LTR 109 S1 response to RAI 12.03-12.04-01, item 1	COLA Part 2, FSAR, Chapter 12, Appendix 12AA.5.4.13 will be revised to read: STD COL 12.3-3 A groundwater monitoring program beyond the normal radioactive effluent monitoring program is developed. If and as necessary to support this groundwater monitoring program, design features will be installed during the plant construction process. Areas of the site to be specifically considered in this groundwater monitoring program are (all directions based on plant standard): <ul style="list-style-type: none"> • West of the auxiliary building in the area of the fuel transfer canal. • West and south of the radwaste building. • East of the auxiliary building rail bay and the radwaste building truck doors. This subsection adopts NEI 08-08A (Reference 201) for the Groundwater Monitoring Program description.
6065	STD	Pt 02	FSAR 12	12AA.05.04.14	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 2 SNC Letter #ND-09-1770	2. COL Part 2 FSAR Chapter 12, Appendix 12AA 5.4.14 last paragraph, will be revised to read: This subsection adopts NEI 08-08A (Reference 201) for the Groundwater Monitoring Program description.
6066	STD	Pt 02	FSAR 12	12AA.05.04.15	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 3 SNC Letter #ND-09-1770	3. COL Part 2 FSAR Chapter 12, Appendix 12AA.5.4.15, will be revised to read: This subsection adopts NEI 08-08A (Reference 201) for discussion of record keeping practices important to decommissioning.
6067	STD	Pt 02	FSAR 12	12AA.Refs	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 4 SNC Letter #ND-09-1770. This supercedes response to BLN-RAI LTR 109 S1	4. COL Part 2 FSAR Chapter 12, Appendix 12AA reference to NEI 07-03 References will be revised to read: 201. NEI 08-08A, Generic FSAR Template Guidance for Life Cycle Minimization of Contamination, Revision 0, October 2009.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5915	STD	Pt 02	FSAR 12	12AA.T / T12AA-201	COL-SER-CI-Ch12 response to CI 12.01.01 item 10 SNC Letter #ND-09-1529	10. COLA Part 2, FSAR Chapter 12, Appendix 12AA, add new Table 12AA-201 (with an LMA of STD COL 12.3-1) as shown in Attachment 12.01-01B of COL-SER-CI-CH12 (SNC Letter #ND-09-1529).
Chapter 13						
HAR-219	HAR	Pt 02	FSAR 13	13 TOC	Voluntary response (H-0498 of NPD-NRC-2010-002)	FSAR Chapter 13 Table of Contents, change 13.1.1.3.1.3 "President / CEO-Progress Energy Florida" to "Executive Vice President – Corporate Development" AND change 13.1.1.2.2 "Nuclear Oversight Section" to "Nuclear Safety Assurance"
HAR-257	HAR	Pt 02	FSAR 13	Entire Chapter	Consistency with industry standards. Use proper title/qualification	Change to: "licensed Senior Reactor Operator" or "SRO" or "licensed Reactor Operator" or "RO"
HAR-253	HAR	Pt 02	FSAR 13	13.01	Consistency with Levy	Relocate sentence "Changes to the organization described herein are reviewed under the provisions of 10CFR 50.54(a) to ensure that any reduction in commitments in the QAPD (as accepted by the NRC) are submitted to and approved by the NRC, prior to implementation." To next paragraph
HAR-220	HAR	Pt 02	FSAR 13	13.01.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.1, third sentence will be revised to add ", Vice President – Nuclear Operations," after "the Vice President – Nuclear Engineering and Services."
HAR-221	HAR	Pt 02	FSAR 13	13.01.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	"Line responsibilities for those functions are assigned to the Senior Vice President – Nuclear Generation Group / Chief Nuclear Officer (CNO) and the President/CEO – Progress Energy Florida. The CNO directs the Vice President at each nuclear site in the operation of his applicable unit(s) and the Vice President – Nuclear Engineering and Services and the Vice President – Nuclear Oversight in the support of the nuclear fleet. The President/CEO – Progress Energy Florida directs the Vice-President – Nuclear Plant Development in the design and construction of new nuclear plant generation." To read: "Line responsibilities for those functions are assigned to the Senior Vice President – Nuclear Generation Group / Chief Nuclear Officer (CNO) and the Executive Vice President – Corporate Development . The CNO directs the Vice President at each nuclear site in the operation of his applicable unit(s), the Vice President – Nuclear Engineering and Services and the Vice President – Nuclear Oversight in the support of the nuclear fleet. The Executive Vice President – Corporate Development directs the Vice President – Nuclear Plant Development in the design and construction of new nuclear plant generation and the Vice President – Operational Readiness in the preparation and integration of the new nuclear plants into the Nuclear Generation Group operating fleet."
HAR-222	HAR	Pt 02	FSAR 13	13.01.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.1 delete the following sentences from the second paragraph "Key executive and corporate management positions, functions, and responsibilities are discussed in Subsection 13.1.1.3.1. The corporate organization is shown in Figure 13.1-203. The management and technical support organization for design, construction, and preoperational activities is addressed in Appendix 13AA."
HAR-223	HAR	Pt 02	FSAR 13	13.01.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.1 the following paragraph will be inserted as the third paragraph: "The corporate organization as shown in Figure 13.1-203 and 13AA-201 provide for design, construction, and preoperational activities and oversight of NSSS vendor and Architect/Engineer management and technical support organizations for design, construction, and preoperational activities as discussed in Appendix 13AA."

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-224	HAR	Pt 02	FSAR 13	13.01.01.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2, first paragraph, first sentence will be replaced with the following: "Before beginning preoperational testing, the Vice President – Operational Readiness for HAR 2 and 3, the Plant General Manager for HAR 2 and 3, Vice President – Nuclear Operations and the Vice President – Nuclear Engineering and Services establish the organization of managers, functional managers, supervisors, and staff sufficient to perform required functions for support of safe plant operation."
HAR-225	HAR	Pt 02	FSAR 13	13.01.01.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2 will be revised to change "Vice President - Nuclear Plant Development" to "Vice President – Operational Readiness."
HAR-226	HAR	Pt 02	FSAR 13	13.01.01.02.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2.2 will be revised to insert the following sentence at the end of the first paragraph: "The Vice President – Nuclear Oversight reports directly to the Executive Vice President – Corporate Development on all matters related to the independent monitoring and assessing of activities during new nuclear plant construction."
HAR-227	HAR	Pt 02	FSAR 13	13.01.01.02.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2.2 will be revised to delete the second paragraph: "Personnel resources of the Nuclear Oversight Section organization are shared between units."
HAR-228	HAR	Pt 02	FSAR 13	13.01.01.02.05	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2.5 will be revised to insert "protection" between radiation and program in the first sentence of the first paragraph.
HAR-229	HAR	Pt 02	FSAR 13	13.01.01.02.10	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.2.10, first paragraph, last sentence will be revised to delete the word "the" between the words "for" and "overall."
HAR-230	HAR	Pt 02	FSAR 13	13.01.01.03.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.3.1.1, last sentence will be revised from: "The Progress Energy, Inc. CEO is assisted in the direction of new nuclear plant development by the President/CEO – Progress Energy Florida and other executive staff in the Nuclear Plant Development department of the corporation." To read: "The Progress Energy, Inc. CEO is assisted in the direction of new nuclear plant development by the Executive Vice President – Corporate Development and other executive staff in the Nuclear Plant Development and Operational Readiness Sections."
HAR-231	HAR	Pt 02	FSAR 13	13.01.01.03.01.03	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.3.1.3 will be revised to change the title from "President/CEO – Progress Energy Florida" to "Executive Vice President - Corporate Development" AND will be revised to replace "President/CEO – Progress Energy Florida (PEF)" and "President/CEO – PEF" with "Executive Vice President - Corporate Development" in the text of the subsection.
HAR-232	HAR	Pt 02	FSAR 13	13.01.01.03.01.03	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.3.1.3, will be revised to change the second to last sentence from: "The President/CEO – PEF delegates authority and responsibility for the licensing and construction of new nuclear units to the Vice President – Nuclear Plant Development." To read: "Executive Vice President – Corporate Development delegates authority and responsibility for the licensing and construction of new nuclear units to the Vice President – Nuclear Plant Development and the preparation and integration of new nuclear plants into NGG to the Vice President – Operational Readiness."
HAR-233	HAR	Pt 02	FSAR 13	13.01.01.03.01.04	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.1.3.1.4 will be replaced with the following: "The Vice President – Nuclear Plant Development (NPD) reports to the Executive Vice President – Corporate Development. The VP-NPD is directly responsible for the licensing and construction of a new nuclear plant. This position is supported in this role by the General Manager – Engineering and Licensing, Director – Construction Management, Director – EPC Contract Management, General Manager – EPC Projects, Director – Program Coordination and Performance Improvement, and General Manager – NPD Projects. This position serves as the Owner's Project Director interfacing with the EPC contractor Project Director."

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-234	HAR	Pt 02	FSAR 13	13.01.01.03.01.05	Voluntary response (H-0498 of NPD-NRC-2010-002)	Insert new subsection 13.1.1.3.1.5 as follows: "13.1.1.3.1.5 Vice President – Operational Readiness The Vice President – Operational Readiness (NPD) reports to the Executive Vice President – Corporate Development and is directly responsible for preparation and integration of the new nuclear plants into the NGG. This position responsibility includes the hiring and training of the plant staff, development and implementation of all operational and technical programs, development and implementation of policies, procedures or other infrastructure as necessary to startup and operate the new nuclear plants. This position is supported in this role by the Plant General Manager, Manager – Operations, Manager – Training, Manager – Maintenance, Manager – Environmental and Radiation Control, Manager – Support Services and the Manager – Plant Testing and Operations."
HAR-235	HAR	Pt 02	FSAR 13	13.01.01.03.01.06	Voluntary response (H-0498 of NPD-NRC-2010-002)	Previous Subsection 13.1.1.3.1.5 (now Subsection 13.1.1.3.1.6) will be revised to replace "President – PEF with "Executive Vice President - Corporate Development"
HAR-254	HAR	Pt 02	FSAR 13	13.01.01.03.01.06	Consistency with Levy	Revise to: The VP-NOS is responsible for providing oversight of the NGG and NPD, and Operational Readiness Departments, administration of...
HAR-255	HAR	Pt 02	FSAR 13	13.01.01.03.01.10	Consistency with Levy	Change to: The Director – Nuclear Oversight Section (NOS) is responsible
HAR-256	HAR	Pt 02	FSAR 13	13.01.01.03.02.02	Consistency with Levy	Change to: The Manager – Nuclear Oversight HNP is responsible for the overall management of independent..." and ends "...the Vice President – Nuclear Oversight."
HAR-237	HAR	Pt 02	FSAR 13	13.01.02.01.01	Voluntary response (H-0498 of NPD-NRC-2010-002)	Insert new subsection titled "Vice President – Harris Nuclear Plant" with the following description: "The Vice President – HNP is the senior management representative on-site. The VP – HNP role and responsibilities are described in Subsection 13.1.1.3.1.6."
HAR-238	HAR	Pt 02	FSAR 13	13.01.02.01.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	Change "Shift Manager – Operations" to "Nuclear Shift Manager".
HAR-239	HAR	Pt 02	FSAR 13	13.01.02.01.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.2.1.2 will be revised to add the following sentence to the last paragraph in this subsection: "This delegation of authority includes the authority to issue standing or special orders as required."
HAR-240	HAR	Pt 02	FSAR 13	13.01.02.01.03.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	Change "Shift Manager – Operations" to "Nuclear Shift Manager(s)".
HAR-241	HAR	Pt 02	FSAR 13	13.01.02.01.03.04	Voluntary response (H-0498 of NPD-NRC-2010-002)	Change "Shift Manager – Operations" to "Nuclear Shift Manager"
Included in HAR-241	HAR	Pt 02	FSAR 13	13.01.02.01.03.04, 13.01.02.01.03.05, 13.01.02.01.03.08, 13.01.02.01.06	Voluntary response (H-0498 of NPD-NRC-2010-002)	Change "SM" to "NSM"
HAR-242	HAR	Pt 02	FSAR 13	13.01.02.01.03.09	Voluntary response (H-0498 of NPD-NRC-2010-002)	FSAR Subsection 13.1.2.1.3.9 replace the last paragraph with the following: "The Supervisor – Fire Protection reports through the Manager – Harris Engineering and Support to the Vice President – HNP who has ultimate responsibility for fire protection of the plant. Additionally, the Supervisor – Fire Protection works with the Superintendent – Operations Support to coordinate activities and program requirements with the operations department. In accordance with Regulatory Guide 1.189 the Lead Engineer – Fire Protection Program is a graduate of an engineering curriculum of accepted standing and has completed not less than six years of engineering experience, three of which were in a responsible position in charge of fire protection engineering work. The engineer in charge of fire protection is trained and experienced in nuclear plant safety or has available personnel who are trained and experienced in nuclear plant safety."

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
HAR-243	HAR	Pt 02	FSAR 13	13.01.02.01.04	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.2.1.4 will be revised as follows: The first bullet will be revised to change "Control Room Supervisor" to "USCO and UCO" The third bullet will be revised to change "operator at the controls and the Control Room Supervisor" to "UCO at the controls and the USCO." The fourth bullet will be revised to change "senior operators" to "senior licensed operators" The sixth bullet will be revised to change "senior operators" to "senior licensed operators" (2 places)
HAR-258	HAR	Pt 02	FSAR 13	13.01.02.01.04.02	Consistency with Levy	Levy refers to "Nuclear Shift Manager(s)". Harris & Levy should be the same.
HAR-259	HAR	Pt 02	FSAR 13	13.01.02.01.04.06	Consistency with Levy	Levy uses "UCO". Harris & Levy should be the same.
HAR-244	HAR	Pt 02	FSAR 13	13.01.02.01.04.08	Voluntary response (H-0498 of NPD-NRC-2010-002)	13.1.2.1.4.8, third paragraph, first sentence will be revised to insert the word "licensed" between the words "reactor" and "operator."
HAR-245	HAR	Pt 02	FSAR 13	13.01.T / T13.1-201 Sheet 1	Voluntary response (H-0498 of NPD-NRC-2010-002)	Sheet 1 will be revised to replace "President/CEO – Progress Energy Florida 0 -" with "Vice President – Operational Readiness 1 -"
HAR-246	HAR	Pt 02	FSAR 13	13.01.T / T13.1-201 Sheet 2	Voluntary response (H-0498 of NPD-NRC-2010-002)	Sheet 2 will be revised to replace "Superintendent - Instrumentation and Control" with "Superintendent - Instrumentation and Control / Electrical"
HAR-247	HAR	Pt 02	FSAR 13	13.01.T / T13.1-201 Sheet 3	Voluntary response (H-0498 of NPD-NRC-2010-002)	Sheet 3 change "Functional Manager 4.4.1 Shift Manager" to "Functional Manager 4.4.1 Nuclear Shift Manager."
HAR-248	HAR	Pt 02	FSAR 13	13.01.T / T13.1-201 Sheet 5	Voluntary response (H-0498 of NPD-NRC-2010-002)	Sheet 5 change Licensing Functional Manager 4.3 to plant specific position of "Manager – Support Services."
HAR-249	HAR	Pt 02	FSAR 13	13.01.T / T13.1-202	Voluntary response (H-0498 of NPD-NRC-2010-002)	Table 13.1-202, Under "One Unit Operating" change the number of required SROs to "2"
5073	STD	Pt 02	FSAR 13	13.02	BLN-VOL-LTR-004 response to NEI 06-13 item 4	4. COLA Part 2, FSAR Chapter 13, Section 13.2, will be revised to read: This section incorporates by reference NEI 06-13A, Template for an Industry Training Program Description.
5310	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 08	COL-SER-OI-Ch01 response to OI 01.05-01 item 1	1. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 8, Fire Protection Program, will be revised (to add the following new milestone) (portions applicable to SNM) 10 CFR 30.32 Prior to initial 10 CFR 30.32(a) 10 CFR 40.31 receipt of byproduct 10 CFR 40.31(a) source, or special nuclear materials (excluding Exempt Quantities as described in 10 CFR 30.18)
5881	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 08	Editorial revision to COL-SER-OI-Ch01 response to OI 01.05-01 item 1	COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, items 8, 11, 14 and 15, will be revised to add a comma after "byproduct" in the milestone "Prior to initial receipt of byproduct..."
2282	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 10	BLN-RAI-LTR 109 S1 response to RAI 12.05-02	COLA Part 2, FSAR, Chapter 13, Table 13.4-201, Item 10, will be revised to match table in BLN-RAI-LTR-109 S1 response to BLN RAI Response 2288.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
6068	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 10	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 5 SNC Letter #ND-09-1770	5. COL Part 2 FSAR Chapter 13, Table 13.4-201 (Sheet 3 of 7) Item 10 will be revised to add a reference to 10 CFR 20.1406 to the Program Source (Required by) column.
6069	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 10	COL-SER-OI-Ch12 S1 response to OI 12.03-001 item 6 SNC Letter #ND-09-1770	Table 13.4-201 Item 10 insert, "Minimization of Contamination" as the third bullet under the Radiation Protection Program, Program Title for Implementation Milestone 1. The "Minimization of Contamination" bullet should be after, "Assignment of RP Supervisor" and before "Personnel Dosimetry".
HAR-250	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 10	COL-SER-OI-Ch12 response to OI 12.03-01	COLA Part 2, FSAR, Chapter 13, Table 13.4-201, Item 10, will be revised to incorporate revision for approved NEI 08-08A (HAR NPIT 366205)
5312	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 11	COL-SER-OI-Ch01 response to OI 01.05-01 item 2	2. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 11, Non Licensed Plant Staff Training Program, will be revised (to add the following new milestone): (portions applicable to SNM) 10 CFR 30.32 Prior to initial 10 CFR 30.32(a) 10 CFR 40.31 receipt of byproduct 10 CFR 40.31(a) source, or special nuclear materials (excluding Exempt Quantities as described in 10 CFR 30.18)
5313	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 14	COL-SER-OI-Ch01 response to OI 01.05-01 item 3	3. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 14, Emergency Planning, will be revised (to add the following new milestone): (portions applicable to SNM) 10 CFR 30.32 Prior to initial 10 CFR 30.32(a) 10 CFR 40.31 receipt of byproduct 10 CFR 40.31(a) source, or special nuclear materials (excluding Exempt Quantities as described in 10 CFR 30.18)
5314	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 15	COL-SER-OI-Ch01 response to OI 01.05-01 item 4	4. COLA Part 2, FSAR Chapter 13, Section 13.4, Table 13.4-201, item 15, Security Program, will be revised (to add the following new milestone): (portions applicable to SNM) 10 CFR 30.34 Prior to initial 10 CFR 30.32(a) 10 CFR 40.41 receipt of byproduct 10 CFR 40.31(a) source, or special nuclear materials (excluding Exempt Quantities as described in 10 CFR 30.18)

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
4991	STD	Pt 02	FSAR 13	13.04.T / T13.4-201 15	Changes to address Security Regulation revisions (NPD-NRC-2009-187)	<p>COLA Part 2, FSAR, Chapter 13, Table 13.4-201, Item 15, will be revised to move FFD to new line item along with new Cyber Security Program, and modify implementation milestones for Security Program items and FFD items.</p> <p>Revised text: 15. Security Program: 10 CFR 50.34(c);</p> <p>Physical Security Program 10 CFR 73.55; 10 CFR 73.56; 10 CFR 73.57; 13.6 Prior to receipt of fuel onsite (protected area) License Condition</p> <p>Safeguards Contingency Program 10 CFR 50.34(d); 10 CFR Part 73, Appendix C 13.6 Prior to receipt of fuel onsite (protected area) License Condition</p> <p>Training and Qualification Program 10 CFR Part 73, Appendix B 13.6 Prior to receipt of fuel onsite (protected area) License Condition</p> <p>20. Fitness For Duty Programs:</p> <p>Fitness for Duty Program (Construction - Mgt. & Oversight Personnel) 10 CFR Part 26, Subparts A–H, N, and O 13.7 Prior to initiating onsite construction License Condition</p> <p>Fitness for Duty Program (Construction – Workers & First Line Supv.) 10 CFR Part 26, Subpart K 13.7 Prior to initiating onsite construction License Condition</p> <p>Fitness for Duty Program (Operation) 10 CFR Part 26 13.7 Prior to initial fuel load License Condition</p> <p>21. Cyber Security Program 10 CFR 73.54 13.6 Prior to initial fuel load License Condition</p>
HAR-260	HAR	Pt 02	FSAR 13	13.05.03	Consistency with Levy	Levy Sentence: Information for this COL item is addressed in 13.5 and Subsection 9.1.5.5
4955	STD	Pt 02	FSAR 13	13.06	BLN-P02-VOL-SEC-FFD-20090323-OR and NPD-NRC-2009-075	<p>1. Change COLA Part 2, FSAR, Section 13.6, by deleting the second paragraph of STD COL 13.6-1 related to physical security during construction. The paragraph to be deleted currently reads as follows:</p> <p>The Physical Security Plan during construction, including control of access to the new plant construction site, is consistent with NEI 03-12, Appendix F (Reference 201), which is currently under NRC review.</p>
4992	STD	Pt 02	FSAR 13	13.06	Changes to address Security Regulation revisions and remove incorrect reference to Part 26 for Security Program. Partially superseded by Qb 5680.	<p>COLA Part 2, FSAR, Chapter 13, Section 13.6, will be revised To read (with an added LMA of STD COL 13.6-5 along with the existing STD COL 13.6-1):</p> <p>The Security Plan consists of the Physical Security Plan, the Training and Qualification Plan, and the Safeguards Contingency Plan. The Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document in order to fulfill the requirements of 10 CFR 52.79(a)(35) and 52.79(a)(36). The Security Plan meets the requirements contained in 10 CFR Part 73 and will be maintained in accordance with the requirements of 10 CFR 52.98. The Plan is categorized as Security Safeguards Information and is withheld from public disclosure pursuant to 10 CFR 73.21.</p> <p>The Cyber Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document in order to fulfill the requirements of 10 CFR 52.79(a)(36). The Cyber Security Plan meets the requirements contained in 10 CFR 73.54 and will be maintained in accordance with the requirements of 10 CFR 52.98. The Plan is categorized as Security Related Information and is withheld from public disclosure pursuant to 10 CFR 2.390.</p> <p>Table 13.4-201 provides milestones for security program and cyber security program implementation.</p>

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5680	STD/HAR	Pt 02	FSAR 13	13.06	NPD-NRC-2009-187 response and VOL-SEC-CYBER-20090811 item 1 - SUPERSEDES a portion of Qb 4992	1. Change COLA Part 2, FSAR, Section 13.6, Security, third and fourth paragraphs to read: The Cyber Security Plan is submitted to the Nuclear Regulatory Commission as a separate licensing document to fulfill the requirements contained in 10 CFR 52.79(a)(36) and 10 CFR 73.54. The Cyber Security Plan will be maintained in accordance with the requirements of 10 CFR 52.98. The Plan is withheld from public disclosure pursuant to 10 CFR 2.390. Table 13.4-201 provides milestones for security program and cyber security program implementation.
4956	STD	Pt 02	FSAR 13	13.06.02	SUPERSEDED by Qb 4993 - BLN-P02-VOL-SEC-FFD-20090323-OR	2. Change COLA Part 2, FSAR, Section 13.6.2, References, by replacing Reference 201, NEI 03-12, Appendix F, with "Not used."
4993	STD/HAR	Pt 02	FSAR 13	13.06.02	Changes to address Security Regulation revisions (complements Qb 4992 and NPD-NRC-2009-187 response)	COLA Part 2, FSAR, Chapter 13, Subsection 13.6.2, will be revised to remove the subsection and all references.
5745	STD	Pt 02	FSAR 13	13.06.02	References section needed to support DC 13.7 redistribution as identified at top of FSAR Section 13.7.	Notwithstanding Qb 5681, restore COLA Part 2, FSAR, Section 13.6.2, References, with Reference 201 of "Not used."
5746	STD	Pt 02	FSAR 13	13.06.03	References section needed to support DC 13.7 redistribution as identified at top of FSAR Section 13.7.	Restore COLA Part 2, FSAR, Section 13.6.3, References, with Reference 201 of "Not used."
4948	STD	Pt 02	FSAR 13	13.07	BLN-P02-VOL-SEC-FFD-20090323-OR item 1, modified to address LNP-specific requirement for work performed under a LWA as addressed in NPD-NRC-2009-075	1. The text in Section 13.7 is changed to read: STD SUP 13.7-1 The Fitness for Duty (FFD) Program is implemented and maintained in two phases; the construction phase program and the operating phase program. The construction and operations phase programs are implemented as identified in Table 13.4-201. The construction phase program includes work performed under the Limited Work Authorizations (LWA), and is consistent with NEI 06-06 (Reference 201). The workforce population subject to random testing during construction is determined on a weekly basis by averaging the total number of active construction badges over each preceding seven-day period. The random selection from each week's workforce population is identified by a standard computer-generated random number generator using this number of active badges as the range of numbers considered in the weekly random testing selection. The operations phase program is consistent with 10 CFR Part 26.
HAR-261	HAR	Pt 02	FSAR 13	13.07	Consistency with Levy	Levy Sentence: The construction phase program is consistent with NEI 06-06 (Reference 201)
4949	STD	Pt 02	FSAR 13	13.07.01	BLN-P02-VOL-SEC-FFD-20090323-OR item 2 and NPD-NRC-2009-075	2. Change COLA Part 2, FSAR, Subsection 13.7.1, by changing Reference 201 to read: Nuclear Energy Institute "Fitness for Duty Program Guidance for New Nuclear Power Plant Construction Sites", NEI 06-06, Revision 4, February 2009.

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HAR-251	HAR	Pt 02	FSAR 13	13AA.01.01.01.02	Voluntary response (H-0498 of NPD-NRC-2010-002)	13AA.1.1.1.2 will be revised to change the first two sentences from: "The Plant General Manager reports to the VP – Nuclear Plant Development. The Plant General Manager, with the aid of those managers that report directly to the Plant General Manager, (see Figure 13AA-201) is responsible for the activities required to transition the unit from the construction phase to the operational phase." To read: "The VP – Operational Readiness reports to the Executive Vice President – Corporate Development . The VP – Operational Readiness, with the aid of those managers that report directly to him, (see Figure 13AA-201) are responsible for the activities required to transition the unit from the construction phase to the operational phase."
HAR-262	HAR	Pt 02	FSAR 13	13AA.01.01.01.02.01	Use proper position title	Should read : The Manager – Engineering and Support is responsible...
HAR-252	HAR	Pt 02	FSAR 13	13AA.01.01.01.02.03	Voluntary response (H-0498 of NPD-NRC-2010-002)	13AA.1.1.1.2.3 will be revised to change "VP – Nuclear Plant Development" to "VP – Operational Readiness."
Chapter 14						
2597	STD	Pt 02	FSAR 14	14.02 - 14.04	RAI LTR 139 response to RAI 14.02-012, item 1	COLA Part 2, FSAR. Chapter 14, will be revised as shown in Attachment 14.02-12A of response to RAI 14.02-012. {General rewrite}
5772	STD	Pt 02	FSAR 14	14.02.01	Editorial revision to Qb 2597 as identified in RAI LTR 139 S1 response to RAI 14.02-012, item 2	Revise reference to Regulatory Guide 1.206, Part I, Section C.1.14.2 as identified in Qb 2597 to Section C.1.14.2.
5247	STD	Pt 02	FSAR 14	14.02.01.04	Editorial revision to Qb 2597 as identified in RAI LTR 139 S1 response to RAI 14.02-012, item 2	Add LMA of STD COL 14.4-3 to the additions of 14.2.1.4 and 14.2.1.5 that follow 14.2.1.3 as identified in Qb 2597 (5246 for VEGP).
HAR-213	HAR	Pt 02	FSAR 14	14.02.02.01.01	Consistency with Levy	Change reference in first sentence from VP - Nuclear Projects & Construction to VP - Operational Readiness
HAR-214	HAR	Pt 02	FSAR 14	14.02.02.03	Consistency with Levy	Under bullet "Site Startup Test Group": 1. from "Licensee's Operations Group" to "Licensee Operations Group" 2. from "Preoperational Testing Team" to "Startup Testing Teams"
5748	STD	Pt 02	FSAR 14	14.02.02.04 - .06	Editorial revision to Qb 2597 - RAI LTR 139 response to RAI 14.02-012, item 1	Revise Subsections 14.2.2.4 to remove untitled subsection numbers 14.2.2.4.1 and 14.2.2.4.2. The text remains, only the subsection numbers are removed. Revise Subsections 14.2.2.5 to remove untitled subsection numbers 14.2.2.5.1 and 14.2.2.5.2. The text remains, only the subsection numbers are removed. Revise Subsections 14.2.2.6 to remove untitled subsection numbers 14.2.2.6.1 and 14.2.2.6.2. The text remains, only the subsection numbers are removed.

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5136	STD	Pt 02	FSAR 14	14.02.03	Editorial revision to Qb 2597 as identified in RAI LTR 139 S1 response to RAI 14.02-012, item 2	Add LMA of STD COL 14.4-3 to the additions at the end of 14.2.3 as identified in Qb 2597.
4990	STD	Pt 02	FSAR 14	14.02.03.01	SUPERSEDES Qb 4851 - RAI LTR 139 S1 response to RAI 14.02-012, item 2;	2. COLA Part 2, FSAR Chapter 14, Subsections 14.2.12 through 14.2.15, as shown in letter 139, will be renumbered and added to Subsection 14.2.3.1, Conduct of Test Program, as shown below: Add the following Subsections after DCD Subsection 14.2.3.1: 14.2.12 changed to 14.2.3.1.1 now change to 14.2.3.1.2 14.2.13 changed to 14.2.3.1.2 now change to 14.2.3.1.3 14.2.14 changed to 14.2.3.1.3 now change to 14.2.3.1.4 14.2.15 changed to 14.2.3.1.4 now change to 14.2.3.1.5 Also correct format for titles of each of the above sections to Initial Cap Only.
HAR-218	HAR	Pt 02	FSAR 14	14.02.03.01.02 Work Control	Correct typographical error	Delete "a". Sentence should read: Work requests are issued in accordance with site specific procedures governing the work management process.
4852 / 5750	STD	Pt 02	FSAR 14	14.02.03.02.01	Regulatory Guide 1.16 withdrawn by NRC 8-11-2009 via 74 FR 40244. This modifies the change in RAI LTR 139 S1 response to RAI 14.02-012, item 3	COLA Part 2, FSAR Subsection 14.2.3.2.1, fourth paragraph will be changed from: Startup test reports are prepared in accordance with the guidance in position C.1.a of Regulatory Guide 1.16, "Reporting of Operating Information – Appendix A Technical Specifications" and position C.9 of Regulatory Guide 1.68, "Initial test Programs for Water-Cooled Nuclear Power Plants." To read: Startup test reports are prepared in accordance with the guidance in position C.9 of Regulatory Guide 1.68, "Initial test Programs for Water-Cooled Nuclear Power Plants."
HAR-215	HAR	Pt 02	FSAR 14	14.02.03.02.01	Consistency with Levy	Paragraph beginning "Each area of startup testing...", 2 nd sentence refers to the VP – Nuclear Plant Management. NOTE: this is not consistent with Qb 2579 (it uses Plant Manager). Revise to refer to "Plant Manger"
HAR-216	HAR	Pt 02	FSAR 14	14.02.03.03.01	Consistency with Levy	Item 3) – add "the" in "90 days after the start..."
5752	STD	Pt 02	FSAR 14	14.02.03.03.01	Editorial revision to Qb 2597 as identified in RAI LTR 139 S1 response to RAI 14.02-012, item 2	Add LMA of STD COL 14.4-4 to text beginning at Subsection 14.2.3.3.1 as identified in Qb 2597.
5878	STD	Pt 02	FSAR 14	14.02.03.03.01	Regulatory Guide 1.16 withdrawn by NRC 8-11-2009 via 74 FR 40244. Revision to Qb 2597 - RAI LTR 139 response to RAI 14.02-012, item 1	COLA Part 2, FSAR Subsection 14.2.3.3.1, first paragraph will be changed from: A startup report is submitted per Regulatory Guide 1.16 at the earliest of: To read: A startup report is submitted at the earliest of:
5754	STD	Pt 02	FSAR 14	14.02.05.01	Editorial, this text is added to DCD 14.2.5.	COLA Part 2, FSAR Chapter 14, Subsection 14.2.5, as shown in Revision 1, will be revised to omit the subsection number of 14.2.5 and align the subtitle of "Utilization of Operating Experience," with the left margin.

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4853	STD	Pt 02	FSAR 14	14.02.08	RAI LTR 139 S1 response to RAI 14.02-012, item 4	4. COLA Part 2, FSAR Chapter 14, Subsection 14.2.8, last paragraph, as shown in letter 139, will be revised to read: The milestone schedule for developing plant operating procedures is presented in Table 13.4-201. The operating and emergency procedures are available prior to start of licensed operator training and, therefore, are available for use during the ITP. Required or desired procedure changes may be identified during their use. Administrative procedures describe the process for revising plant operating procedures.
HAR-211	HAR	Pt 02	FSAR 14	14.02.09.04.23	Editorial	Add the following to the end of bullet J. in 14.2.9.4.23: "and verification of these items by a non-testing means such as a QC nameplate check of as-built equipment where testing would not be practical or feasible."
4850	STD	Pt 02	FSAR 14	14.02.11	RAI LTR 139 S1 response to RAI 14.02-012, item 1	1. COLA Part 2, FSAR Chapter 14, Subsection 14.2.11, as shown in letter 139, will be renumbered and added to Subsection 14.2.5, Utilization of Reactor Operating and Testing Experience in the Development of Test Program, as shown below: Add the following Subsections after DCD Subsection 14.2.10.5: 14.2.11 change to new last paragraph of 14.2.5 14.2.11.1 change to 14.2.5.1 14.2.11.2 change to 14.2.5.2 14.2.11.3 change to 14.2.5.3 14.2.11.4 change to 14.2.5.4 14.2.11.5 change to 14.2.5.5
4851	STD	Pt 02	FSAR 14	14.02.12 thru 14.02.15	SUPERSEDED by Qb 4990 - RAI LTR 139 S1 response to RAI 14.02-012, item 2	2. COLA Part 2, FSAR Chapter 14, Subsections 14.2.12 through 14.2.15, as shown in letter 139, will be renumbered and added to Subsection 14.2.3.1, Conduct of Test Program, as shown below: Add the following Subsections after DCD Subsection 14.2.3.1: 14.2.12 change to 14.2.3.1.1 14.2.13 change to 14.2.3.1.2 14.2.14 change to 14.2.3.1.3 14.2.15 change to 14.2.3.1.4
5788	STD	Pt 02	FSAR 14	14.03.02.03	Editorial	Under Selection Criteria, fourth sub-bullet under the first main bullet, revise the reference to "DCD Section 16.3" to red text and add hyperlink.
HAR-152	HAR	Pt 02	FSAR 14	14.03.03, 14.03.03.01	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	COLA Part 2, FSAR Chapter 14, Subsection 14.3.3, change "subsection" to "subsections" COLA Part 2, FSAR Chapter 14, Subsection 14.3.3.1, add the following subsection after Subsection 14.3.3.1 with LMA of HAR SUP 14.3-4: 14.3.3.2 Concrete Fill ITAAC Concrete fill will be placed as backfill between rock excavations and the sidewalls of the nuclear islands below elevation 69.3 m (227.5 ft) as described in FSAR Sections 2.5.4.5.3, 2.5.4.10.2, and Table 2.5.4-212. Concrete fill ITAAC have been developed to verify that concrete fill that conforms to the approved design has been installed in the required position.
HAR-212	HAR	Pt 02	FSAR 14	14.03.03.01	RAI LTR 044 S1 response to RAI 3.08.05-1	Revise to: The design of the waterproof membrane beneath the nuclear island basemat is described in DCD Subsection 3.4.1.1.1.1. Waterproof Membrane ITAAC have been developed to address verification that the mudmat-waterproofing interface beneath the nuclear island basemat has a minimum coefficient of friction to resist sliding of 0.55.

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5094	STD	Pt 02	FSAR 14	14.03.T / T14.3-201	See Qb 5755 - RAI LTR 027 S1 response to RAI 14.03-001 item 2	2. COLA Part 2, Section 14.3, Table 14.3-201 entry for offsite power (with HAR SUP 14.3-2), is revised from: ZBS Transmission Switchyard and Offsite Power System XX To read: ZBS Transmission Switchyard and Offsite Power System XX
5095	STD	Pt 02	FSAR 14	14.03.T / T14.3-201	RAI LTR 027 S1 response to RAI 14.03-001 item 3	3. COLA Part 2, Section 14.3, Table 14.3-201 legend, is revised to add: XX = Selected for ITAAC
5755	STD	Pt 02	FSAR 14	14.03.T / T14.3-201	RAI LTR 027 S1 response to RAI 14.03-001 item 2	This change should have read: ☐ 2. COLA Part 2, Section 14.3, Table 14.3-201 entry for offsite power (with BLN SUP 14.3-2), is revised from: ZBS Transmission Switchyard and Offsite Power System <u>XX</u> (underlined) To read: ZBS Transmission Switchyard and Offsite Power System XX
4854	STD	Pt 02	FSAR 14	14.04.02	RAI LTR 139 S1 response to RAI 14.02-012, item 5	5. COLA Part 2, FSAR Chapter 14, Subsection 14.4.2, as shown in letter 139, will be revised to read: Preoperational and startup test specifications and procedures are provided to the NRC in accordance with the requirements of DCD Subsection 14.2.3. The controls for development of test specifications and procedures are also described in Subsection 14.2.3. A cross reference list is provided between ITAACs and test procedures and/or sections of test procedures.
Chapter 15						
No Change						
Chapter 16						
4901	STD	Pt 02	FSAR 16	16.01	Consistency with actual Part 4 information as of Revision 1.	COLA Part 2, FSAR Chapter 16, Section 16.1, last two sentences, will be revised from: However, the generic technical specifications and bases provided with Chapter 16 of the DCD are incorporated by reference into the plant-specific technical specifications provided in Part 4 of this COL application. In addition, a full information set of the plant-specific technical specifications and bases are provided in Part 4 of this COL application. To read: However, the generic technical specifications and bases provided with Chapter 16 of the DCD are incorporated directly into the plant-specific technical specifications and bases provided in Part 4 of this COL application..
Chapter 17						
4889	STD	Pt 02	FSAR 17	17.04	RAI LTR 150 response to RAI 17.04-002	COLA Part 2, FSAR, Chapter 17, Section 17.4 "Design Reliability Assurance Program" will be revised to read: This section of the referenced DCD is incorporated by reference with the following departures and/or supplements. STD SUP 17.4-1 The quality assurance requirements for non-safety related SSCs within the scope of D-RAP is in accordance with the Quality Assurance Program Description (QAPD), Part III.

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5815	STD	Pt 02	FSAR 17	17.05	COL-SER-OI-Ch01 S1 response to OI 01.04-02 item 6	Subsection 17.5, add new paragraph following the existing first paragraph: Conformance statements for QA-related Regulatory Guides (including Regulatory Guides 1.28, 1.30, 1.33, 1.38, 1.39, 1.94, and 1.116) are provided in Appendix 1AA. While many Regulatory Guide positions can be identified as applicable to the scope of work identified and addressed by the DCD and others can be identified as applicable to the scope of work identified and addressed by the COLA, some QA guidance related positions could be accomplished by either scope of work and thus be addressed in either the DCD or the COLA. These positions are primarily dependent on who performs the work. The DCD conformance statement indicates an exception to apply NQA-1. The COLA identifies an exception to apply NQA-1. Per DCD Section 17.3, WEC work performed up to March 15, 2007 applied a 1991 version of the standard. A 1994 version of the standard is applied for work performed after that date by WEC. If the work is performed under the applicant's COL program, the 1994 version of NQA-1 identified in the COLA QAPD is applied. Thus, DCD scope (identified in DCD Appendix 1A) and "remaining scope" differentiate the application of the guidance identified in these Regulatory Guides.
3489	STD	Pt 02	FSAR 17	17.05	Consistency with R-COLA for NRC SER OI Number 17.01-01, Item 3	COLA Part 2, FSAR Chapter 17, Section 17.5 Change last sentence of first paragraph from, "This QAPD is based on NEI 06-14A, "Quality Assurance Program Description," which was approved by the NRC in Reference 206." to read as follows: "This QAPD is based on NEI 06-14A, "Quality Assurance Program Description" (Reference 206)."
HAR-132	HAR	Pt 02	FSAR 17	17.08	SUPERSEDED by HAR-163 Editorial to revise the quotation marks	COLA Part 2, FSAR, Chapter 17, Section 17.8 revise Reference 206 from: 206. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation Report for Technical Report NEI 06-14A "Quality Assurance Program Description," Rev. 4, ML072200084, July 2007. To read: 206. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation Report for Technical Report NEI 06-14A 'Quality Assurance Program Description'," Rev. 4, ML072200084, July 2007.
HAR-163	HAR	Pt 02	FSAR 17	17.08	SUPERSEDED by Qb 3489	COLA Part 2, FSAR, Chapter 17, Section 17.8 revise Reference 206 from: 206. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation Report for Technical Report NEI 06-14A "Quality Assurance Program Description," Rev. 4, ML072200084, July 2007. To read: 206. U.S. Nuclear Regulatory Commission, "Final Safety Evaluation for Technical Report NEI 06-14 'Quality Assurance Program Description'," Rev. 7, ML092650695, November 3, 2009.
3489	STD	Pt 02	FSAR 17	17.08	Consistency with R-COLA for NRC SER OI Number 17.01-01, Item 4	COLA Part 2, FSAR Chapter 17, Section 17.8, Change reference 206 from ""Final Safety Evaluation For Technical Report NEI 06-14, 'Quality Assurance Program Description,'" Revision 7, ML 092650695, November 3, 2009." to read as follows: "Nuclear Energy Institute, Technical Report NEI 06-14A, "Quality Assurance Program Description," Revision 7, July 2009."
Chapter 18						
No Change						
Chapter 19						
4920	STD/HAR	Pt 02	FSAR 19	19.58	RAI LTR 152 response to RAI 19-09 item 1 and HAR RAI LTR 063 19.3 (H-0460 of NPD-NRC-2009-131)	1. COLA Part 2, FSAR Chapter 19, Subsection 19.58 will be revised to read: This section of the referenced DCD is incorporated by reference with the following departures and/or supplements.

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4921	HAR	Pt 02	FSAR 19	19.58	HAR RAI LTR 063 19.3 (H-0460 of NPD-NRC-2009-131)	2. COLA Part 2, FSAR Chapter 19, Subsection 19.58 will be revised to add new Subsection 19.58.3, that reads: 19.58.3 Conclusion Add the following information at the end of DCD Subsection 19.58.3: HAR SUP 19.58-1 Table 19.58-201 documents the site-specific external events evaluation that has been performed for HAR Units 2 and 3. This table provides a general explanation of the evaluation and resultant conclusions and provides a reference to applicable sections of the COL where more detailed supporting information (including data used, methods and key assumptions) regarding the specific event is located. Based upon this evaluation, it is concluded that the HAR Units 2 and 3 site is bounded by the High Winds, Floods and Other External Events analysis documented in DCD Section 19.58 and APP-GW-GLR -101 (Reference 201) and no further evaluations are required at the COL application stage.
HAR-061	HAR	Pt 02	FSAR 19	19.58	HAR RAI LTR 063 19.3 (H-0460 of NPD-NRC-2009-131)	Add new Subsection 19.58.4, that reads: 19.58.4 References 201. Westinghouse Electric Company LLC, "AP1000 Probabilistic Risk Assessment Site-Specific Considerations," Document Number APP-GW-GLR-101, Revision 1, October 2007. 202. NUREG/CR-4461, "Tornado Climatology of the Contiguous United States," Revision 2, February 2007. 203. Texas Tech University, Wind Science and Engineering Center, "A Recommendation for an Enhanced Fujita Scale (EF-Scale)," June 2004. 204. ASCE Standard ASCE/SEI 7-05, "Minimum Design Loads for Buildings and Other Structures," 2006. 205. NUREG/CR-6890, Volume 1, "Reevaluation of Station Blackout Risk at Nuclear Power Plants - Analysis of Loss of Offsite Power Events: 1986-2004"
HAR-062	HAR	Pt 02	FSAR 19	19.58.T / T19.58-201	RAI LTR 063 19.3 (H-0460 of NPD-NRC-2009-131)	Add new Table 19.58-201 per Attachment 19-3A of RAI LTR 063 (H-0460) response in NPD-NRC-2009-131
HAR-142	HAR	Pt 02	FSAR 19	19.58.T / T19.58-201	Editorial for consistency with R-COLA	COLA Part 2, FSAR, Chapter 19, Table 19.58-201, change the title of the table from: External Event Frequencies To read: External Event Frequencies for HAR
HAR-143	HAR	Pt 02	FSAR 19	19.58.T / T19.58-201	Conforming changes to be consistent with the response to LNP-RAI-LTR-077 (L0686)	COLA Part 2, FSAR, Chapter 19, Table 19.58-201, make the following changes: • Show all occurrences of 1.0E-7 in the event frequency column as "<1.0E-7". • External flood evaluation criteria & event frequency: show the evaluation criteria as Note 4 instead of Note 2 and list the event frequency as "N/A" • Aviation Accident Evaluation criteria: apply Notes 2, 3 instead of Notes 1, 2. • RR & Truck Accidents Evaluation Criteria: apply Note 2 instead of Notes 1, 4.
4923	STD/HAR	Pt 02	FSAR 19	19.59.10.05	RAI LTR 152 response to RAI 19-09 item 5 and HAR RAI LTR 063 19.3 (H-0460 of NPD-NRC-2009-131)	5. COLA Part 2, FSAR Chapter 19, Subsection 19.59.10.5, fourth paragraph will be revised to read: STD COL 19.59.10-2 As discussed in Section 19.58.3, it has been confirmed that the Winds, Floods, and Other External Events analysis documented in DCD Section 19.58 is applicable to the site. The site-specific design has been evaluated and is consistent with the AP1000 PRA assumptions. Therefore, Section 19.58 of the AP1000 DCD is applicable to this design.

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
4935	STD	Pt 02	FSAR 19	19.59.10.05	RAI LTR 152 response to RAI 19-20 item 1	1. COLA Part 2, FSAR Chapter 19, subsection 19.59.10.5, STD COL 19.59.10-1, first three sentences will be changed to read: A review of the differences between the as-built plant and the design used as the basis for the AP1000 seismic margins analysis will be completed prior to fuel load. A verification walkdown will be performed with the purpose of identifying differences between the as-built plant and the design. Any differences will be evaluated and the seismic margins analysis modified as necessary to account for the plant-specific design, and any design changes or departures from the certified design.
4936	STD	Pt 02	FSAR 19	19.59.10.05	RAI LTR 152 response to RAI 19-20 item 2	2. COLA Part 2, FSAR Chapter 19, Subsection 19.59.10.5, STD COL 19.59.10-3 will be revised to read: A review of the differences between the as-built plant and the design used as the basis for the AP1000 internal fire and internal flood analyses will be completed prior to fuel load. Plant specific internal fire and internal flood analyses will be evaluated and the analyses modified as necessary to account for the plant-specific design, and any design changes or departures from the certified design.
4905	STD	Pt 02	FSAR 19	19.59.10.06	Consistent method for identifying referenced documents.	Add "(Reference 201)" (red, hyperlinked text) under heading "PRA Input to the Reactor Oversight Process" at the end of the first paragraph to read - "The mitigating systems performance indicators (MSPi) are evaluated based on the indicators and methodologies defined in NEI 99-02 (Reference 201)."
4906	STD	Pt 02	FSAR 19	19.59.11	Consistent method for identifying referenced documents.	Add to 19.59 following the separator line after the last paragraph of 19.59.10.6: Add the following to include new Reference 201: 19.59.11 References [separator bar] Add the following text to the end of DCD Subsection 19.59.11: 201. NEI 99-02, Nuclear Energy Institute, "Regulatory Assessment Performance Indicator Guideline," Technical Report NEI 99-02, Revision 5, July 2007. [separator bar]
PT03						
HAR-305	HAR	Pt 03	all	all		Editorial changes were made for all revisions
HAR-066	HAR	Pt 03	ER 02	02.03.01.02.01.01	RAI LTR 023 response to RAI 02.04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	ER Subsection 2.3.1.2.1.1 was changed per RAI 02-04.03-4 (H-0485) HAR ER Rev. 1, Subsection 2.3.1.2.1.1, Dam and Appurtenances, was revised to update the inclusion of the tainter gate.
HAR-300	HAR	Pt 03	ER 02	02.04.02.02	RAI LTR ER-NRC-001 response to RAI 4.3.1-2 (H-0471) per NPD-NRC-2009-099	ER text in Subsection 2.4.2.2 update drainage numbers to be consistent with Tables 2.4-8, 2.4-9, 2.4-10.
HAR-072	HAR	Pt 03	ER 02	02.05.02.08	RAI LTR 007 response to 02.02.02-2 (H-0382) per NPD-NRC-2009-127	ER text in Subsection 2.5.2.8 was changed per RAI 02-02.01-02.02.02-2 (H-0382) Subsection 2.5.2.8 was revised to update information on the Sanford Lee County Regional Airport.

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HAR-076	HAR	Pt 03	ER 02	02.07 T / T2.7-75	7/16/09 NRC teleconference and response per NPD-NRC-2009-210	ER Subsection 2.7 Table 2.7-75 was changed per NPD-NRC-2009-210; table was revised for 0-2 Hour 50th Percentile EAB X/Q Values for HAR 2 and HAR 3 per the table provided in NPD-NRC-2009-210.
HAR-077	HAR	Pt 03	ER 02	02.07.02	RAI LTR ER-NRC-001	ER Subsection 2.7.2 was changed per NPD-NRC-2009-136 (H-0478).The second and third paragraphs of ER Subsection
HAR-079	HAR	Pt 03	ER 02	02.07.06.03	7/16/09 NRC teleconference and response per NPD-NRC-2009-210	ER text in Subsection 2.7.6.3 changed per NPD-NRC-2009-210 Subsection 2.7.6.3, X/Q Estimates for Short-Term Diffusion Calculations revised per NPD-NRC-2009-210
HAR-082	HAR	Pt 03	ER 03	03.07.01.02	RAI LTR ER-NRC-001 response to RAI 3.7-1 (H-0452) per NPD-NRC-2009-082	Revise ER Subsection 3.7.1.2 per RAI 3.7-1 (H-0452), to correct discrepancies in values impacted by revised GIS data per the response to H-0452 in NPD-NRC-2009-082.
HAR-084	HAR	Pt 03	ER 04	04.00	RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	ER text in Section 4.0 changed per NPD-NRC-2009-230 (H-0485); text was revised to update the inclusion of the tainter gate.
HAR-085	HAR	Pt 03	ER 04	04.01.01.02.01.04	Editorial	Deleted the word "Ten" from the sixth bullet under Harris Reservoir Perimeter.
HAR-189	HAR	Pt 03	ER 04	04.01.02	Editorial	ER Subsection 4.1.2, revise the fifth bullet to to read "Pipeline Corridor."
HAR-097	HAR	Pt 03	ER 05	05.00	RAI LTR 023 response to RAI 02-04.03-4 (H-0485) per NPD-NRC-2009-230. This revision also includes response to RAI LTR 009 (H-0432, H-0433, H-0434, H-0488 and H-0489)	ER text in Section 5.0 changed per NPD-NRC-2009-230 (H-0485); text was revised to update the inclusion of the tainter gate.
HAR-301	HAR	Pt 03	ER05	05.02.01.01	RAI LTR ER-NRC-001 response to RAI 4.3.1-2 (H-0471) per NPD-NRC-2009-099	ER text in Subsection 5.2.1.1 updated drainage numbers to be consistent with Tables 2.4-8, 2.4-9, 2.4-10.
HAR-100	HAR	Pt 03	ER 05	05.03.04	RAI LTR ER-NRC-001 response to RAI 5.3.3.1-2 (H-0296) per NPD-NRC-2009-017	RAI 5.3.3.1-2 (H-0296) per NPD-NRC-2009-017; revised ER Subsection 5.3.4; editorial revisions were made to clarify the number of cooling towers.
HAR-303	HAR	Pt 03	ER08	08.01	Clarification of North Carolina regulations.	In Section 8.1, revised the 2nd bullet under CPCN requirements to reflect revision to North Carolina Utility Commission Statute R8-61.
HAR-302	HAR	Pt 03	ER08	08.04.01	Editorial change to be consistent with the Integrated Resource Plan	Revised first bulleted list in Section 8.4.1 to be consistent with the language in the Integrated Resource Plan.

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HAR-304	HAR	Pt 03	ER08	08.04.02	Clarification of North Carolina regulations.	In Subsection 8.4.2, revised the 5th bullet to reflect revisions to North Carolina Utility Commission Statute R8-61.
HAR-113	HAR	Pt 03	ER 10	10.04.T / T10.4-1	Incorrect description of Marion County Site	ER Subsection 10.4 Table 10.4-1 (Sheet 2 of 16) deleted the incorrect statement (Marion County is an existing nuclear site) under the aesthetics category.
PT04						
5900	STD	Pt 04		A, A.2	Editorial	2) At the end of the Justification sentence for the 1st GTS 5.2.2 and 5.3 add the word "the" in front of "plant specific technical specifications".
						3. Change COLA Part 4, Section A.2, second item GTS 5.2.2, to read: GTS 5.2.2 The bracketed information in the GTS reads: [The unit staff organization shall include the following: a. A non-licensed operator shall be assigned to each reactor containing fuel and an ... b., c., d., e. ...Policy Statement on Engineering Expertise on Shift.] Remove the brackets and adopt the bracketed information in the GTS except that 5.2.2.d is omitted. Justification: Generic TS bracketed information is applicable and adopted except for GTS 5.2.2.d which is no longer necessary due to revisions to Part 26 since the approval of the GTS. The removal of GTS 5.2.2.d is consistent with TSTF-511 identified by NRC as an appropriate change to implement the revisions to Part 26 (See 73 FR 79923, Notice of Availability of Model Safety Evaluation, Model No Significant Hazards Determination, and Model Application for Licensees That Wish To Adopt TSTF-511, Revision 0, "Eliminate Working Hour Restrictions From TS 5.2.2 To Support Compliance With 10 CFR Part 26").
4950	STD	Pt 04		A.2	BLN-P02-VOL-SEC-FFD-20090323-OR item 3 and NPD-NRC-2009-075	Change COLA Part 4, Section A.2, GTS 4.1.2, Justification reference from "FSAR Section 2.1.3.5" to read "FSAR Subsection 2.1.3.4."
5790	STD	Pt 04		A.2	Editorial	4. Change COLA Part 4, Section B, Complete Copy of PSTS and Bases, to omit current PSTS 5.2.2.d, and renumber current 5.2.2.e and 5.2.2.f as 5.2.2.d and 5.2.2.e to read: d. The Manager - Operations or Manager - Shift Operations shall hold an SRO license. e. An individual shall provide advisory technical support to the unit operations shift crew in the areas of thermal hydraulics, reactor engineering, and plant analysis with regard to the safe operation of the unit. This individual shall meet the qualifications specified by the Commission Policy Statement on Engineering Expertise on Shift.
4951	STD	Pt 04		B	BLN-P02-VOL-SEC-FFD-20090323-OR item 4 as modified by specific titles in 5.2.2.d, per NPD-NRC-2009-075	5. Change COLA Part 4, Section B, Complete Copy of PSTS and Bases, to revise current PSTS 5.2.2.b (which refers to TS 5.2.2.f) per above revision to read: b. Shift crew composition may be less than the minimum requirement of 10 CFR 50.54(m)(2)(i) and 5.2.2.a and 5.2.2.e for a period of time not to exceed 2 hours in order to accommodate unexpected absence of on-duty shift crew members provided immediate action is taken to restore the shift crew composition to within the minimum requirements.
4952	STD	Pt 04		B	BLN-P02-VOL-SEC-FFD-20090323-OR item 5 and NPD-NRC-2009-075	COLA Part 4, Section B, Technical Specification 1.3 will be revised on page 1.3-6 under EXAMPLES in the next to last sentence on the page to move the period inside the quotation marks around "clock."
4908	STD	Pt 04		B, 01.03	Consistency with WEC AP1000 GTS	
HAR-164	STD	Pt 04		B, 03.03.01.T / T3.3.1-1	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Table 3.3.1, Sheet 5, Note 1, change "RPT" to "RTP"

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
4912	STD	Pt 04		B, 03.07.09	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Technical Specification SR 3.7.9.3 will be revised to add a comma after SFS-PL-V066.
HAR-162	STD	Pt 04		B, B03.03.01 / B3.3.1-33	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.3.1, section labelled "M.1, M.2.1, M.2.2, and M.3" on page B3.3.1-33, first sentence, change "Condition N" to "Condition M"
HAR-206	STD	Pt 04		B, B03.03.01-39	Consistency with WEC AP1000 GTS	Fourth Paragraph under SR 3.3.1.3 Change from "No ΔT conversion factor..." to read "No ΔT" conversion factor..."
4913	STD	Pt 04		B, B03.03.02 -38	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.3.2, APPLICABLE SAFTEY ANALYSES, LCOs, and APPLICABILITY item 18.a, third paragraph, first sentence will be revised to read "The reactor trip breaker position switches that provide input to the P-4 interlock only function to energize or de-energize or open or close contacts."
5765	STD	Pt 04		B, B03.03.02 -38	Editorial	Delete the blank line in the first paragraph under Item 18.a on Bases Page B 3.3.2-38.
4914	STD	Pt 04		B, B03.03.02 -40	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.3.2, APPLICABLE SAFTEY ANALYSES, LCOs, and APPLICABILITY item 18.e, will be revised to add a comma following "...on High 2 pressurizer water level" in the second sentence.
						COLA Part 4, Section B, Bases 3.3.2, ACTIONS item H.1, will be revised to remove the inadvertent line space in the middle of the second paragraph.
						COLA Part 4, Section B, Bases 3.3.2, ACTIONS item I.1 and I.2, will be revised to add the missing line space following the paragraph and before the subheader J.1 and J.2.
						COLA Part 4, Section B, Bases 3.3.2, ACTIONS item J.1 and J.2, will be revised to remove the inadvertent line space in the middle of the third paragraph.
4915	STD	Pt 04		B, B03.03.02 -52	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.3.2, ACTIONS item V.1, V.2.1, and V.2.2, will be revised to remove the inadvertent line space in the middle of the second paragraph.
4916	STD	Pt 04		B, B03.04.03	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.4.3, SR 3.4.3.1, will be revised to make the current reference to "a Note" to ALL CAPS to read "a NOTE" within the first sentence of the third paragraph.
4917	STD	Pt 04		B, B03.04.04	Consistency with WEC AP1000 GTS	COLA Part 4, Section B, Bases 3.4.4, LCO, will be revised to make the current reference to "the Note" in the sixth and tenth paragraphs to ALL CAPS to read "the NOTE" in both places.
HAR-207	STD	Pt 04		B, B03.05.04 -6	Editorial	Correct the References #2 from "Chapter 15, "Safety Analysis" to read " Chapter 15, "Accident Analyses"
HAR-208	STD	Pt 04		B, 00 TOC, B00 TOC	Editorial	Both the Technical Specifications and the Technical Specification Bases Table of Contents needs to be updated to reflect the current FSAR Revision Level, update revision to FSAR Rev 2.
PT05						
HAR-116	HAR	Pt 05		D.01	RAI LTR 070 (NPD-NRC-2009-232, H-0501) supercedes RAI LTR 053 S response to RAI 13.03.77 (NPD-NRC-2009-128, H-0472)	Revise Section D.1 as shown in RAI H-0501 response. H-0501 of RAI LTR 070 in NPD-NRC-2009-232 supercedes RAI LTR 053 Supplement which replaces the response to RAI H-0406 in NPD-NRC-2009-045.
HAR-117	HAR	Pt 05		D.02	RAI LTR 053 S response to RAI 13.03.77 (NPD-NRC-2009-128, H-0472) This supplement replaces the response to RAI H-0406 in NPD-NRC-2009-031.	Revise Section D.2 to read: D.2 Emergency Action Levels (EALs) The basis for Harris Unit 1 EALs is Appendix 1 of NUREG-0654/FEMA-REP-1, Revision 1, "Criteria for Preparation and Evaluation of Radiological Emergency Response Plans and Preparedness in Support of Nuclear Power Plants" (Reference S). Annex 1 of the Harris Emergency Plan contains the specific EALs used in classification of emergencies for Harris Unit 1. The basis for Harris Units 2 and 3 which consist of passive plant designs, is NEI 07-01, "Methodology for Development of Emergency Action Levels Advanced Passive Light Water Reactors," Rev. 0 (Reference P). Annex 2 of the Harris Emergency Plan contains the specific EALs used in classification of emergencies for Harris Unit 2 and 3.

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HAR-118	HAR	Pt 05		D.03	RAI LTR 053 S response to RAI 13.03.77 (NPD-NRC-2009-128, H-0472) This supplement replaces the response to RAI H-0406 in NPD-NRC-2009-045.	Delete Section D.3
HAR-119	HAR	Pt 05		D.03.01, D.03.02	RAI LTR 053 S response to RAI 13.03.77 (NPD-NRC-2009-128, H-0472) This supplement replaces the response to RAI H-0406 in NPD-NRC-2009-031.	Delete Sections D.3.1 and D.3.2
HAR-120	HAR	Pt 05		L.02	RAI LTR 070 response to RAI 13.03.84 (H-0506) per NPD-NRC-2009-232	Revise Section L.2 To: L.2 MEDICAL TRANSPORTATION Injured and contaminated personnel requiring hospital medical attention will be transported to an offsite medical facility, if required. The Apex Rescue Squad, Inc. has agreed to respond to emergency calls from the Site, including transporting persons with injuries involving radioactive contamination. This service is available on a 24-hour basis. In cases not involving severe injury, one of the site vehicles may be used to transport injured individuals. The agreement with Apex Rescue Squad, Inc. is on file at HNP and listed in Appendix 3. Contaminated injured persons will be accompanied to a medical facility by a Radiation Control Team member carrying a survey instrument. If possible, contaminated clothing and equipment may be removed from the patient, or the patient may be wrapped in clean sheets or clothing to prevent contamination of the transporting personnel and vehicle. Rescue vehicles have mobile communications with the Raleigh Communications Center and local receiving hospitals.
HAR-121	HAR	Pt 05		Annex A01 / A.01-3.2.b	RAI LTR 070 response to RAI 13.03.83 (H-0505) per NPD-NRC-2009-232	Add the following step to Annex 1, Section A1-3.2.b of the HAR COLA Part 5, Emergency Plan: The TSC function will be relocated to the applicable control room (or alternate location, as determined by the SEC), if the primary TSC is uninhabitable.
HAR-122	HAR	Pt 05		Annex B01 / A.02-3.2.b	RAI LTR ER-NRC-001 response to RAI 5.4.2-1 (H-0306) per NPD-NRC-2009-017	Add the following step to Annex 2, Section A2-3.2.b of the HAR COLA Part 5, Emergency Plan: The TSC function will be relocated to the applicable control room (or alternate location, as determined by the SEC), if the primary TSC is uninhabitable.
PT06						

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
No Change						
PT07						
4954	STD	Pt 07		B	BLN-P02-VOL-SEC-FFD-20090323-OR item 7 and NPD-NRC-2009-075	7. Change COLA Part 7, Departures and Exemptions, 1) Fitness for Duty Program Description (10 CFR Part 26), by deleting the entire text for this exemption request, and replacing it with the following statement: Withdrawn – this exemption is no longer required.
4953	STD	Pt 07		B.01	BLN-P02-VOL-SEC-FFD-20090323-OR item 6 and NPD-NRC-2009-075	6. Change COLA Part 7, Departures and Exemptions, Section B, Introductory statements to omit the listing for the 1) Fitness for Duty Program Description, by revising the current item 1 from: 1) Fitness for Duty Program Description, and To read: 1) Not used, and
PT08						
HAR-166	HAR	Pt 08		Cover page		Change revision number on the cover page from "0" to "1"
PT09						
HAR-178	HAR	Pt 09		09.01	Clarification	COLA Part 1, Section 9.1 under Section 2.1 for General Information, second bullet. Delete paragraph starting with, "In addition, PEC is currently evaluating the Department of Energy's (DOE) loan..."
HAR-179	HAR	Pt 09		09.01	Clarification	COLA Part 1, Section 9.1 under Section 2.1 for General Information, third bullet. Change to read: The published annual financial report for 2006, together with interim financial statements that are pertinent, are enclosed. Current annual reports and Security and Exchange Commission filings are available at http://phx.corporate-ir.net/phoenix.zhtml?c=106559&p=iro-l-IRHome .
HAR-188	HAR	Pt 09		09.01	Clarification	COLA Part 1, Section 9.1 under Section 2.1 first bullet change (a), (b) and (c) dollar amounts to read as follows: (a) \$5,499,101,000 (b) \$220,000,000 (c) \$607,109,000 Total cost remains unchanged.
HAR-180	HAR	Pt 09		09.02.02	Redact FSAR Figure 12.4-201 - SUNSI	Redact COLA Part 2, FSAR Figure 12.4-201 as SUNSI. COLA Part 9, Add Subsection 9.2.2 for FSAR Figure 12.4-201.
HAR-181	HAR	Pt 09		09.03	Redact State and County Emergency Plans - SUNSI	Redact State and county Emergency Plans. COLA Part 9, Add Subsection 9.3 to list the State and county Emergency Plans.
HAR-182	HAR	Pt 09		TOC	Editorial	COLA Part 9, Table of Contents, Add figure title, "Depiction of HNP Area TLD Locations" to Subsection 9.2.2.
PT10						

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5863 / 5901	STD	Pt 10		LC#02, 09.01-07	RAI LTR 165 in response to RAI 09.01.02-001 item 1 Duplicate of QB Item #5477	<p>Revise Part 10, License Condition 2, COL Item No. 9.1-7, from: A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a test to monitor for corrosion, such as weight loss measurements and or visual examination.</p> <p>To read: A spent fuel rack Metamic coupon monitoring program is to be implemented when the plant is placed into commercial operation. This program includes tests to monitor bubbling, blistering, cracking, or flaking; and a tests to monitor for corrosion, such as weight loss measurements and / or visual examination. The program also includes test to monitor changes in physical properties of the absorber material, including neutron attenuation and thickness measurements.</p>										
HAR-149	STD	Pt 10		LC#02, 09.01-07	Southern Company responseto NRC BLN SER Open Items for FSAR Chapter 9 (NRAI 00348603-15)	<p>COLA Part 10, LC #2, COL Item 9.1-7 will be revised to add the following to the end of the COL Item 9.1-7 description: The program will include the methodology and acceptance criteria for the tests listed and provide corrective action requirements based on vendor recommendations and industry operating experience. The program will be implemented through plant procedures.</p>										
2599	STD	Pt 10		LC#02, 14.04-03	RAI LTR 139 response to RAI 14.02-012, item 3	<p>3. COLA Part 10 will be revised To read:</p> <table border="1"> <thead> <tr> <th>COL Item No.</th> <th>Subject</th> <th>From DCD Tier 2 Subsection</th> <th>Implementation Milestone</th> </tr> </thead> <tbody> <tr> <td>14.4-3</td> <td>Conduct of Test Program</td> <td>14.4.3</td> <td>Prior to initiating test program</td> </tr> </tbody> </table> <p>A site-specific startup administration manual (procedure), which contains the administration procedures and requirements that govern the activities associated with the plant initial test program, as identified in FSAR Section 14.2, is provided prior to initiating the plant initial test program.</p>	COL Item No.	Subject	From DCD Tier 2 Subsection	Implementation Milestone	14.4-3	Conduct of Test Program	14.4.3	Prior to initiating test program		
COL Item No.	Subject	From DCD Tier 2 Subsection	Implementation Milestone													
14.4-3	Conduct of Test Program	14.4.3	Prior to initiating test program													
4937 / 6047	STD	Pt 10		LC#02, 19.59.10-01	Editorial revision to Qb 5781 - BLN RAI LTR 152 response to RAI 19-20 item 3	<p>3. COLA Part 10, License Conditions and ITAAC, BLN Proposed License Condition 2, COL Holder Items, first paragraph, will be revised to read:</p> <table border="1"> <thead> <tr> <th>As-Built SSC HCLPF</th> <th>Comparison to Seismic Margin Evaluation</th> <th>19.59.10-1</th> <th>19.59.10.5</th> <th>Prior to initial fuel load</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>The Combined License holder referencing the AP1000 certified design will review differences between the as-built plant and the design used as the basis for the AP1000 seismic margins analysis prior to fuel load. A verification walkdown will be performed with the purpose of identifying differences between the as-built plant and the design. Any differences will be evaluated and the seismic margins analysis modified as necessary to account for the plant specific-design, and any design changes or departures from the certified design. Spacial interactions are addressed by COL information item 3.7-3. Details of the process will be developed by the Combined License holder.</p>	As-Built SSC HCLPF	Comparison to Seismic Margin Evaluation	19.59.10-1	19.59.10.5	Prior to initial fuel load					
As-Built SSC HCLPF	Comparison to Seismic Margin Evaluation	19.59.10-1	19.59.10.5	Prior to initial fuel load												

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4938 / 6049	STD	Pt 10		LC#02, 19.59.10-02	Editorial revision to Qb 5782 - BLN RAI LTR 152 response to RAI 19-20 item 4	4. COLA Part 10, License Conditions and ITAAC, HAR Proposed License Condition 2, COL Holder Items, will be revised to read: <p align="center">Evaluation of As-Built Plant Versus Design in AP1000 PRA</p> 19.59.10-2 and Site-Specific PRA External Events 19.59.10.5 Prior to initial fuel load The Combined License holder referencing the AP1000 certified design will review differences between the as-built plant and the design used as the basis for the AP1000 PRA and Table 19.59-18 prior to fuel load. The plant specific PRA-based insight differences will be evaluated and the plant specific PRA model modified as necessary to account for the plant specific-design and, any design changes or departures from the design certification PRA.
4939 / 6087	STD	Pt 10		LC#02, 19.59.10-03	Editorial revision to BLN RAI LTR 152 response to RAI 19-20 item 5	5. COLA Part 10, License Conditions and ITAAC, HAR Proposed License Condition 2, COL Holder Items, will be revised to read: <p align="center">Internal Fire and Internal 19.59.10-3 Flood Analyses 19.59.10.5 Prior to initial fuel load</p> The Combined License holder referencing the AP1000 certified design will review differences between the as-built plant and the design used as the basis for the AP1000 internal fire and internal flood analyses prior to fuel load. Plant specific internal fire and internal flood analyses will be evaluated and the analyses modified as necessary to account for the plant-specific design, and any design changes or departures from the certified design
4941	STD	Pt 10		LC#02, 19.59.10-04	RAI LTR 152 response to RAI 19-21 item 2	2. COLA Part 10, License Conditions and ITAAC, HAR Proposed License Condition 2, Col Holder Items, will be revised to read: <p align="center">Implement Severe 19.59.10-4 Accident Management Guidance 19.59.10.5 Prior to startup testing</p>
5142	STD	Pt 10		LC#03	Editorial revision to remove references to FSAR in proposed License Condition.	COLA Part 10, Proposed License Conditions (Including ITAAC), Proposed License Condition 3, introductory statement, will be revised To read: The licensee shall implement the programs or portions of programs identified below on or before the associated milestones identified below.
5315	STD	Pt 10		LC#03 C	COL-SER-OI-Ch01 response to OI 01.05-01 item 5	5. COLA Part 10, Proposed License Condition 3, Operational Program Implementation, will be revised to add the following new milestones: C.2 – Fire Protection Program (applicable portions) C.3 – Non Licensed Plant Staff Training Program (applicable portions) C.4 – Emergency Planning (applicable portions) C.5 – Security Program (applicable portions)
4994	STD/HAR	Pt 10		LC#03	Changes to address Security Regulation revisions (NPD-NRC-2009-187)	COLA Part 10, Proposed License Conditions (Including ITAAC), Proposed License Condition 3, will be revised from: G.8 - Containment Leakage Rate Testing Program To read: G.8 - Containment Leakage Rate Testing G.9 - Physical Security G.10 - Cyber Security

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HAR-123	HAR	Pt 10		LC#04	RAI LTR 070 response to RAI 13.03-79 (NPD-NRC-2009-232, H-0500)	<p>Add the following license condition: 4. EMERGENCY PLANNING ACTIONS: The COL Application does not contain final versions of some implementation aspects of emergency planning such as EALs and Letters of Agreement because the information will not be developed until it is necessary to implement those aspects of the plan. Thus, COL applicants are proposing the following license condition. PROPOSED LICENSE CONDITION: A. Progress Energy-Carolinas shall submit a fully developed set of site-specific Emergency Action Levels (EALs) for Harris Units 2 [Unit 3] to the NRC in accordance with NEI 07-01 revision 0, with no deviations. These fully developed EALs shall be submitted to the NRC for confirmation at least 180 days prior to initial fuel load. B. Prior to the full-participation exercise to be conducted in accordance with the requirements of Appendix E to 10 CFR Part 50, PGN will have available for NRC inspection Letters of Agreement with entities listed on Appendix 3 of the HAR COLA Part 5, Emergency Plan. These Letters of Agreement will detail each entity's specific emergency planning responsibilities and certify the entity's concurrence with their responsibilities.</p>
HAR-124	HAR	Pt 10		LC#04	RAI LTR 070 response to RAI 13.03-81 (NPD-NRC-2009-232, H-0502)	<p>COLA Part 10, Proposed License Condition 4 (see response to RAI 13.03-79) will be revised to include: C. Prior to the full-participation exercise to be conducted in accordance with the requirements of Appendix E to 10 CFR Part 50, PGN will have available for NRC inspection the Letters of Agreement established with the following entities: a. North Carolina Division of Emergency Management b. Chatham County, North Carolina Emergency Management Agency c. Hartnett County, North Carolina Emergency Management Agency d. Lee County, North Carolina Emergency Management Agency e. Wake County, North Carolina Emergency Management Agency These Letters of Agreement will certify each agency's concurrence with the emergency action levels described in HAR Units 2 and 3 COLA Part 5 Emergency Plan.</p>
HAR-125	HAR	Pt 10		LC#04	RAI LTR 070 response to RAI 13.03-87 (NPD-NRC-2009-232, H-0512)	<p>COLA Part 10, Proposed License Condition 4 (see response to RAI 13.03-79) will be revised to include: D. Prior to the full-participation exercise to be conducted in accordance with the requirements of Appendix E to 10 CFR Part 50, PGN will have available for NRC inspection a copy of the Harris Emergency Plan at the following off-site agencies and response centers: a. North Carolina Division of Emergency Management Agency Emergency Operations Center (EOC) b. Chatham County, North Carolina Emergency Management Agency EOC c. Hartnett County, North Carolina Emergency Management Agency EOC d. Lee County, North Carolina Emergency Management Agency EOC e. Wake County, North Carolina Emergency Management Agency EOC</p>
4942	STD	Pt 10		LC#06	SUPERCEDED by Qb 5308 RAI LTR 152 response to RAI 19-21 item 3	<p>3. COLA Part 10, License Conditions and ITAAC, BLN Proposed License Condition 6, Operational Program Readiness, will be revised to read: b. This schedule shall include a schedule for the implementation of a site specific Severe Accident Management Guidance.</p>

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Change ID#	COLA	COLA Part	Chapter	Section	Basis for Change	Change Summary
5308	STD	Pt 10		LC#06	COL-SER-OI-Ch10 response to OI 10.01-01 (Deleted bullet "e" from 5243 and moved "f" up to "e". Response is site specific to BLN and not STD)	COLA Part 10, proposed License Condition 6, will be revised to read: 6. OPERATIONAL PROGRAM READINESS: The NRC inspection of operational programs will be the subject of the following license condition in accordance with SECY-05-0197. PROPOSED LICENSE CONDITION: The licensee shall submit to the appropriate Director of the NRC, a schedule, no later than 12 months after issuance of the COL, that supports planning for and conduct of NRC inspections of operational programs listed in the operational program FSAR Table 13.4-201. The schedule shall be updated every 6 months until 12 months before scheduled fuel loading, and every month thereafter until either the operational programs in the FSAR table have been fully implemented or the plant has been placed in commercial service, whichever comes first. This schedule shall include a submittal schedule for: a. the emergency planning implementation procedures to the NRC consistent with 10 CFR Part 50, Appendix E, Section V. b. the implementation of site-specific Severe Accident Management Guidance. c. a reactor vessel pressurized thermal shock evaluation at least 18 months prior to initial fuel load. d. approved preoperational and startup test procedures in accordance with FSAR Subsection 14.2.3. e. a flow accelerated corrosion (FAC) program implementation schedule, including the construction phase activities.
HAR-134	STD	Pt 10		LC#06	Southern Company response to NRC BLN SER Open Items for FSAR Chapter 9, ND-09-2078, RAI 09.01-01, Item 2 (NRAI 00348603-15)	COLA Part 10, Proposed License Conditions (including ITAAC), License Condition 6, Proposed License Condition for Operational Program Readiness, will be revised to add the following line item: f. The spent fuel rack Metamic coupon monitoring program implementation
HAR-150	HAR	Pt 10		LC#07	Results from change to Subsection 1.4.1 that replaces the LC in Part 10 with a commitment in Subsection 1.4.1 (See Change ID #HAR-139)	Part 10, License Condition #7, remove license condition and replace with "Not used"
4957	STD	Pt 10		LC#AppB PhSec	BLN-P02-VOL-SEC-FFD-20090323-OR and NPD-NRC-2009-075	1. Change COLA Part 10, Proposed License Conditions (Including ITAAC), Appendix B, Inspections, Tests, Analysis, and Acceptance Criteria, by changing the heading and text for Physical Security ITAAC, to read: Physical Security ITAAC The physical security ITAAC that are in the scope of the Westinghouse AP1000 standard design are included in the referenced DCD Tier 1 Subsection 2.6.9 as incorporated by reference above. Site specific physical security ITAAC that are outside the scope of the Westinghouse AP1000 standard design in DCD Tier 1 Subsection 2.6.9 are provided in the attached Table 2.6.9-2. Include these ITAAC after the DCD Tier 1 Table 2.6.9-1 ITAAC.
4959	STD	Pt 10		LC#AppB, T2.6.9-2	BLN-P02-VOL-SEC-FFD-20090323-OR and NPD-NRC-2009-075	3. Change COLA Part 10, Proposed License Conditions (Including ITAAC), Appendix B, Inspections, Tests, Analysis, and Acceptance Criteria, by adding the new Table 2.6.9-2 - SITE-SPECIFIC PHYSICAL SECURITY INSPECTIONS, TESTS, ANALYSES AND ACCEPTANCE CRITERIA after page LC-B1.

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5096	STD	Pt 10		LC#AppB PISp	RAI LTR 027 S1 response to RAI 14.03-001 item 4 SER with Open Items Confirmatory Item 8.2A-1 SER with Open Items Confirmatory Item 14.31	4. COLA Part 10, Appendix B, is revised to include the following new site-specific ITAAC from: Add the following information to the information provided in the referenced DCD Tier 1 following Section 2.6.11: 2.6.12 Transmission Switchyard and Offsite Power System No entry for this system. To read: Add the following information to the information provided in the referenced DCD Tier 1 following Section 2.6.11: 2.6.12 Transmission Switchyard and Offsite Power System Inspection, Test, Analysis and Acceptance Criteria Table 2.6.12-1 provides a definition of the inspections, tests, and/or analyses, together with associated acceptance criteria for the offsite power system. Table 2.6.12-1 Offsite Power System [For table information see supplemental response to RAI LTR 027 - include Table 2.6.12-1 after Table 2.6.9-1.]
4958	STD	Pt 10		LC#AppB, EP	BLN-P02-VOL-SEC-FFD-20090323-OR	2. Change COLA Part 10, Proposed License Conditions (Including ITAAC), Appendix B, Inspections, Tests, Analysis, and Acceptance Criteria, by changing the text under the heading Emergency Planning ITAAC. With the addition of a new table containing PS-ITAAC, this change is necessary to differentiate the table that includes the emergency planning ITAAC from this new Table 2.6.9-2. This differentiation is accomplished by changing the text, to read: The emergency planning ITAAC are included in the attached Table 3.8-1. Include these ITAAC after DCD Tier 1 Section 3.7. Part 10, Appendix B, add the following to the end of Appendix B:
HAR-151	STD	Pt 10		LC#AppB, Concrete Fill	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	"Concrete Fill ITAAC The concrete fill ITAAC is included in the attached Table 3.8-3. Include this ITAAC after DCD Tier 1 Section 3.7"
HAR-040	HAR	Pt 10	ITAAC	03.08.T / T3.8-2	RAI LTR 044 S1 response to RAI 3.08.05-1 H-0487 and H-0262	Revise Table 3.8-2 per response in RAI-LTR 044 (NPD-NRC-2009-226)
HAR-127	HAR	Pt 10	ITAAC	03.08.T / T3.8-1	NPD-NRC-2009-093, H-0469	Replace Part 10, Table 3.8-1, with revised Table 3.8-1 included as an attachment to NPD-NRC-2009-093
HAR-128	HAR	Pt 10	ITAAC	03.08.T / T3.8-1	RAI LTR 070 response to RAI 13.03-86 (NPD-NRC-2009-232, H-0509)	Add the Emergency Planning ITAAC to Part 10, Table 3.8-1 per response to H-0509 to NRC HAR RAI 13.03-86 per NPD-NRC-2009-232.
HAR-129	HAR	Pt 10	ITAAC	03.08.T / T3.8-3	RAI LTR 020 response to RAI 02.05.04-8 (H-0390 in NPD-NRC-2009-006)	Add new Part 10, Table 3.8-3, included as an attachment to NPD-NRC-2009-006 for H-0390 of RAI LTR 020.

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PT11						
HAR-165	HAR	Pt 11		Cover page		Change revision number on the cover page from "1" to "2"
HAR-183	HAR	Pt 11		QAPD		Replace the QAPD with the revised QAPD