

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
General Information Tab	-		
Table of Contents Tab	-	1.1.0-10	0
i	27	1.1.0-11	0
ii	27	1.1.0-12	0
iii	27	1.1.0-13	0
iv	27	1.1.0-14	0
v	27	1.1.0-15	0
vi	27		
vii	27	Section 1.2 Tab	-
viii	27	1.2.1-1	10
ix	27		
x	27	1.2.2-1	9
xi	27	1.2.2-1a	9
xii	27	1.2.2-2	22
xiii	28	1.2.2-3	24
xiv	27	1.2.2-4	20
xv	27		
xvi	27	Fig. 1.2.2-1	28
xvii	27	Fig. 1.2.2-2	25
xviii	27	Fig. 1.2.2-3	17
xix	27	Fig. 1.2.2-4	24
xx	27	Fig. 1.2.2-5	26
xxi	27	Fig. 1.2.2-6	14
xxii	27	Fig. 1.2.2-7	18
xxiii	28	Fig. 1.2.2-8	16
xxiv	28	Fig. 1.2.2-9	28
		Fig. 1.2.2-10	15
Chapter 1 Tab	-	Fig. 1.2.2-11	0
Chapter 1 Cover Sheet	-	Fig. 1.2.2-12	15
1-i	11		
1-ii	20	Section 1.3 Tab	-
1-iii	20	1.3.1-1	20
1-iv	20		
		Section 1.4 Tab	-
Section 1.1 Tab	-	1.4.0-1	0
1.1.0-1	27		
1.1.0-2	18	Section 1.5 Tab	-
1.1.0-3	3	1.5.1-1	11
1.1.0-4	28		
1.1.0-5	28	1.5.2-1	0
1.1.0-6	28		
1.1.0-7	3	1.5.3-1	18
1.1.0-8	28		
1.1.0-8a	28	1.5.4-1	0
1.1.0-9	10		
		1.5.5-1	15

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
1.5.6-1	0	Chapter 2 Tab	-
		Chapter 2 Cover Sheet	-
1.5R-1	11	2-i	12
		2-ii	11
Section 1.6 Tab	-	2-iii	21
1.6.0-1	0	2-iv	21
		2-v	1
Section 1.7 Tab	-	2-vi	21
1.7.0-1	0	2-vii	21
		2-viii	20
Section 1.8 Tab	-	2-ix	11
1.8.0-1	27	2-x	11
1.8.0-2	27		
1.8.0-3	27	Section 2.0 Tab	-
1.8.0-4	27	2.0-1	27
1.8.0-5	27		
1.8.0-6	27	Section 2.1 Tab	-
1.8.0-7	27	2.1.1-1	27
1.8.0-8	27	2.1.1-2	15
1.8.0-9	27	2.1.2-1	28
1.8.0-10	27	2.1.3-1	19
1.8.0-11	28	2.1.3-2	19
1.8.0-12	27	2.1.3-3	26
1.8.0-13	27	2.1.3-4	0
1.8.0-14	27	2.1.3-5	0
1.8.0-15	27	2.1.3-6	0
1.8.0-16	27	2.1.3-7	0
1.8.0-17	27	2.1.3-8	0
1.8.0-18	27	2.1.3-9	0
1.8.0-19	27	2.1.3-10	0
1.8.0-20	27	2.1.3-11	0
1.8.0-21	27	2.1.3-12	0
1.8.0-22	27	2.1.3-13	0
1.8.0-23	27	2.1.3-14	27
1.8.0-24	27	2.1.3-15	15
1.8.0-25	27	2.1.3-16	12
1.8.0-26	27		
1.8.0-27	27		
1.8.0-28	27		
1.8.0-29	27		
1.8.0-30	27		
1.8.0-31	27		
1.8.0-32	27		
1.8.0-33	28		
1.8.0-34	27		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
2.1R-1	12	2.3.2-19	0
		2.3.2-20	0
Fig. 2.1.1-1	0	2.3.2-21	0
Fig. 2.1.1-2	15	2.3.2-22	25
Fig. 2.1.1-3	13	2.3.2-23	10
Fig. 2.1.1-4	0	2.3.2-24	0
Section 2.2 Tab	-	2.3.3-1	28
2.2.1-1	27	2.3.3-1a	28
		2.3.3-2	28
2.2.2-1	27	2.3.3-3	28
		2.3.3-4	17
2.2R-1	0	2.3.3-5 Deleted	15
		2.3.3-5a Deleted	15
Section 2.3 Tab	-	2.3.3-6 Deleted	15
2.3.1-1	20	2.3.3-7	17
2.3.1-2	25	2.3.3-8	28
2.3.1-3	0	2.3.3-9	0
2.3.1-4	20	2.3.3-10	0
2.3.1-4a	10	2.3.3-11	0
2.3.1-5	10	2.3.3-12	0
2.3.1-6	0	2.3.3-13	0
2.3.1-7	0	2.3.3-14	0
2.3.1-8	20	2.3.3-15	0
2.3.1-9	10	2.3.3-16	0
2.3.1-10	10	2.3.3-17	0
2.3.1-11	0	2.3.3-18	0
2.3.1-12	0	2.3.3-19	0
		2.3.3-20	0
2.3.2-1	10	2.3.3-21	0
2.3.2-2	26	2.3.3-22	0
2.3.2-3	20	2.3.3-23	0
2.3.2-4	0	2.3.3-24	0
2.3.2-5	0		
2.3.2-6	0	2.3.4-1	20
2.3.2-7	0	2.3.4-2	20
2.3.2-8	0	2.3.4-2a	20
2.3.2-9	0	2.3.4-2b	20
2.3.2-10	0	2.3.4-3	0
2.3.2-11	8	2.3.4-4	0
2.3.2-12	0	2.3.4-5	0
2.3.2-13	0	2.3.4-6	0
2.3.2-14	0	2.3.4-7	0
2.3.2-15	0	2.3.4-8	0
2.3.2-16	0		
2.3.2-17	0		
2.3.2-18	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
2.3.4-9	0	2.4.7-2b	27
2.3.4-10	0	2.4.7-3	0
2.3.4-11	0		
2.3.4-12	20	2.4R-1	0
2.3.4-13	20		
2.3.4-14	20	Fig. 2.4.1-1	0
2.3.4-15	20	Fig. 2.4.1-2	0
2.3R-1	20	Fig. 2.4.7-1	1
2.3R-2	26	Fig. 2.4.7-2	1
		Fig. 2.4.7-3	1
Fig. 2.3.1-1	0	Fig. 2.4.7-4	1
Fig. 2.3.1-2	0	Fig. 2.4.7-5	1
		Fig. 2.4.7-6	1
Fig. 2.3.2-1	0	Fig. 2.4.7-7	1
Fig. 2.3.2-2	0		
		Section 2.5 Tab	-
Fig. 2.3.4-1	0	2.5.1-1	0
Fig. 2.3.4-2	0	2.5.1-2	0
Fig. 2.3.4-3	0	2.5.1-3	0
		2.5.1-4	0
Section 2.4 Tab	-	2.5.1-5	0
2.4.1-1	27		
2.4.1-2	0	2.5.2-1	0
2.4.1-3	0	2.5.2-2	0
2.4.1-4	0	2.5.2-3	0
2.4.1-5	0	2.5.2-4	0
		2.5.2-5	0
2.4.2-1	0		
		2.5.3-1	0
2.4.3-1	0		
		2.5.4-1	0
2.4.4-1	27		
2.4.4-2	27	2.5.5-1	0
2.4.4-3	0		
		2.5R-1	0
2.4.5-1	0		
		Fig. 2.5.1-1	0
2.4.6-1	19	Fig. 2.5.1-2	0
2.4.6-2	19		
2.4.6-3	19	Fig. 2.5.2-1	0
2.4.6-4	19	Fig. 2.5.2-2	0
2.4.6-4a	19	Fig. 2.5.2-3	0
2.4.6-5	19		
2.4.7-1	1		
2.4.7-2	1		
2.4.7-2a	1		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 2.5A Tab	-	2.5D-9	0
App. 2.5A Cover Sheet	0	2.5D-10	0
2.5A-1	0	2.5D-11	0
2.5A-2	0	2.5D-12	0
2.5A-3	0	2.5D-13	0
2.5A-4	0	2.5D-14	0
2.5A-5	0	2.5D-15	0
2.5A-6	0	2.5D-16	0
2.5A-7	0	2.5D-17	0
2.5A-8	0	2.5D-18	0
Section 2.5B Tab	-	Section 2.5E Tab	-
App. 2.5B Cover Sheet	-	App. 2.5E Cover Sheet	-
2.5B-1	0	2.5E-1	0
2.5B-2	0	2.5E-2	0
2.5B-3	0	2.5E-3	0
2.5B-4	0	2.5E-4	0
2.5B-5	0	2.5E-5	0
		2.5E-6	0
Section 2.5C Tab	-	Chapter 3 Tab	-
App. 2.5C Cover Sheet	-	Chapter 3 Cover Sheet	-
2.5C-1	0	3-i	0
2.5C-2	0	3-ii	15
2.5C-3	0	3-iii	15
2.5C-4	0	3-iv	15
2.5C-5	0	3-v	16
2.5C-6	0	3-vi	28
2.5C-7	0	3-vii	28
2.5C-8	0	3-viii	22
2.5C-9	0	3-ix	4
2.5C-10	0	3-x	21
2.5C-11	0	3-xi	0
2.5C-12	0	3-xii	2
2.5C-13	0	3-xiii	11
2.5C-14	0	3-xiv	21
2.5C-15	0	3-xiv-a	11
2.5C-16	0	3-xv	22
 		3-xvi	12
Section 2.5D Tab	-	3-xvii	14
App. 2.5D Cover Sheet	-	3-xviii	11
2.5D-1	0	3-xix	11
2.5D-2	0	3-xx	12
2.5D-3	0	3-xxi	12
2.5D-4	0		
2.5D-5	0		
2.5D-6	0		
2.5D-7	0		
2.5D-8	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 3.1 Tab	-	3.1.2-39	28
3.1.1-1	25	3.1.2-40	0
3.1.1-2	28	3.1.2-41	0
3.1.1-3	20	3.1.2-42	10
3.1.1-4	10		
3.1.1-5	10	Section 3.2 Tab	-
3.1.1-6	25	3.2.1-1	22
3.1.1-7	11	3.2.1-2	28
3.1.1-8	0	3.2.1-3	12
		3.2.1-4	10
3.1.2-1	0	3.2.1-5	0
3.1.2-2	0	3.2.1-6	28
3.1.2-3	28	3.2.1-7	3
3.1.2-4	28		
3.1.2-5	10	3.2.2-1	3
3.1.2-6	26	3.2.2-2	27
3.1.2-7	0	3.2.2-3	0
3.1.2-8	0	3.2.2-4	0
3.1.2-9	20	3.2.2-5	16
3.1.2-10	0	3.2.2-6	1
3.1.2-11	25	3.2.2-7	9
3.1.2-12	10	3.2.2-8	0
3.1.2-13	15E2	3.2.2-9	0
3.1.2-14	15	3.2.2-10	0
3.1.2-15	15	3.2.2-11	9
3.1.2-16	15		
3.1.2-17	28	Section 3.3 Tab	-
3.1.2-18	15	3.3.1-1	0
3.1.2-19	15	3.3.1-2	0
3.1.2-20	23		
3.1.2-21	15	3.3.2-1	0
3.1.2-22	15	3.3.2-2	28
3.1.2-23	15	3.3.2-2a	16
3.1.2-24	25	3.3.2-3	12
3.1.2-25	19		
3.1.2-26	15	3.3R-1	12
3.1.2-27	28		
3.1.2-28	15	Fig. 3.3.1-1	0
3.1.2-29	15		
3.1.2-30	15	Section 3.4 Tab	-
3.1.2-31	15	3.4.0-1	0
3.1.2-32	15		
3.1.2-33	15	Section 3.5 Tab	-
3.1.2-34	15	3.5.0-1	0
3.1.2-35	15		
3.1.2-36	15	3.5.1-1	19
3.1.2-37	15	3.5.1-2	26
3.1.2-38	0	3.5.1-3	14

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
3.5.1-4	24	3.7.3-10a	22
3.5.1-4a	15	3.7.3-11	22
3.5.1-5	28	3.7.3-11a	22
3.5.1-6	28	3.7.3-11b	22
		3.7.3-12	22
3.5.2-1	0	3.7.3-13	22
		3.7.3-14	22
3.5R-1	28	3.7.3-14a	22
		3.7.3-15	22
Fig. 3.5.1-1	14	3.7.3-16	22
Fig. 3.5.1-2	14	3.7.3-17	22
Section 3.6 Tab	-	3.7.4-1	22
3.6.1-1	19		
3.6.1-2	22	3.7R-1	24
3.6.2-1	28	Fig. 3.7.2-1	0
3.6.2-2	28	Fig. 3.7.2-2	0
3.6.2-3	28	Fig. 3.7.2-3	0
3.6.2-4	28	Fig. 3.7.2-4	0
3.6.2-5	28	Fig. 3.7.2-5	0
3.6.2-6	28	Fig. 3.7.2-6	0
3.6.2-7	28		
3.6.2-8	28	Fig. 3.7.3-1	0
3.6.2-9	28	Fig. 3.7.3-2	0
3.6.2-10	28	Fig. 3.7.3-3	3
		Fig. 3.7.3-4	0
3.6R-1	19	Fig. 3.7.3-5	0
Section 3.7 Tab	-	Section 3.8 Tab	-
3.7.1-1	22	3.8.1-1	0
		3.8.1-2	0
3.7.2-1	22	3.8.1-3	21
3.7.2-2	22	3.8.1-4	21
3.7.2-3	22	3.8.1-4a	21
3.7.2-4	22	3.8.1-5	15
3.7.2-5	22	3.8.1-6	27
3.7.2-6	22	3.8.1-6a	4
3.7.2-7	22	3.8.1-7	0
		3.8.1-8	0
3.7.3-1	22	3.8.1-9	0
3.7.3-2	26	3.8.1-10	0
3.7.3-3	22	3.8.1-11	28
3.7.3-4	22	3.8.1-12	15
3.7.3-4a	22	3.8.1-13	0
3.7.3-5	22	3.8.1-14	25
3.7.3-6	22	3.8.1-14a	16
3.7.3-7	22	3.8.1-15	0
3.7.3-8	22	3.8.1-16	0
3.7.3-8a	22	3.8.1-17	0
3.7.3-9	22	3.8.1-18	0
3.7.3-10	22	3.8.1-19	0
		3.8.1-20	15

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
3.8.1-21	15	3.8.3-1	0
3.8.1-22	0	3.8.3-2	0
3.8.1-23	0	3.8.3-3	0
3.8.1-24	0	3.8.3-4	0
3.8.1-25	0	3.8.3-5	0
3.8.1-26	0		
3.8.1-27	0	3.8.4-1	0
3.8.1-28	0	3.8.4-2	0
3.8.1-29	0	3.8.4-3	2
3.8.1-30	0	3.8.4-4	2
3.8.1-31	23	3.8.4-4a	2
3.8.1-31a	19	3.8.4-4b	3
3.8.1-32	0	3.8.4-4c	17
3.8.1-33	0	3.8.4-4d	2
3.8.1-34	0	3.8.4-5	1
3.8.1-35	0	3.8.4-6	1
3.8.1-36	0	3.8.4-7	11
3.8.1-37	0	3.8.4-8	11
3.8.1-38	0		
3.8.1-39	0	3.8.5-1	0
3.8.1-40	0	3.8.5-2	0
3.8.1-41	0	3.8.5-3	0
3.8.1-42	0	3.8.5-4	0
3.8.1-43	0	3.8.5-5	0
3.8.1-44	18	3.8.5-6	0
3.8.1-45	27	3.8.5-7	0
3.8.1-45a	10	3.8.5-8	0
3.8.1-46	15	3.8.5-9	0
3.8.1-47	0	3.8.5-10	0
3.8.1-48	0	3.8.5-11	0
3.8.1-49	0	3.8.5-12	27
3.8.1-50	0	3.8.5-13	0
3.8.1-51	0	3.8.5-14	0
3.8.1-52	0	3.8.5-15	0
3.8.1-53	0	3.8.5-16	0
3.8.1-54	0	3.8.5-17	0
3.8.1-55	0		
3.8.1-56	26	3.8R-1	0
3.8.1-57	28	3.8R-2	0
3.8.1-58	0	3.8R-3	15E2
3.8.1-59	0	3.8R-4	15
3.8.1-60	0		
3.8.1-61	0	Fig. 3.8.1-1	12
3.8.1-62	0	Fig. 3.8.1-2	0
		Fig. 3.8.1-3	0
3.8.2-1	0	Fig. 3.8.1-4	12
		Fig. 3.8.1-5	12
		Fig. 3.8.1-6	12

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Fig. 3.8.1-7	0	Fig. 3.8.3-4	19
Fig. 3.8.1-8	0	Fig. 3.8.3-5	0
Fig. 3.8.1-9	6		
Fig. 3.8.1-10	12	Fig. 3.8.4-1	0
Fig. 3.8.1-11	0	Fig. 3.8.4-2	11
Fig. 3.8.1-12	0		
Fig. 3.8.1-13	0	Fig. 3.8.5-1	0
Fig. 3.8.1-14	16	Fig. 3.8.5-2	0
Fig. 3.8.1-14a	3	Fig. 3.8.5-3	0
Fig. 3.8.1-15	18	Fig. 3.8.5-4	0
Fig. 3.8.1-16	18	Fig. 3.8.5-5	0
Fig. 3.8.1-17	12	Fig. 3.8.5-6	0
Fig. 3.8.1-18	0	Fig. 3.8.5-7	0
Fig. 3.8.1-19	0	Fig. 3.8.5-8	0
Fig. 3.8.1-20	0	Fig. 3.8.5-9	0
Fig. 3.8.1-21	0	Fig. 3.8.5-10	0
Fig. 3.8.1-22	0	Fig. 3.8.5-11	0
Fig. 3.8.1-23	0	Fig. 3.8.5-12	0
Fig. 3.8.1-24	0	Fig. 3.8.5-13	0
Fig. 3.8.1-25	0	Fig. 3.8.5-14	0
Fig. 3.8.1-26	0	Fig. 3.8.5-15	0
Fig. 3.8.1-27	0	Fig. 3.8.5-16	0
Fig. 3.8.1-28	0	Fig. 3.8.5-17	0
Fig. 3.8.1-29	0	Fig. 3.8.5-18	0
Fig. 3.8.1-30	0	Fig. 3.8.5-19	0
Fig. 3.8.1-31	0	Fig. 3.8.5-20	0
Fig. 3.8.1-32	0	Fig. 3.8.5-21	0
Fig. 3.8.1-33	0	Fig. 3.8.5-22	0
Fig. 3.8.1-34	0		
Fig. 3.8.1-35	0	Section 3.9 Tab	-
Fig. 3.8.1-36	0	3.9.1-1	19
Fig. 3.8.1-37	0	3.9.1-2	21
Fig. 3.8.1-38	0		
Fig. 3.8.1-39	0	3.9.2-1	0
Fig. 3.8.1-40	0	3.9.2-2	0
Fig. 3.8.1-41	0	3.9.2-3	0
Fig. 3.8.1-42	0		
Fig. 3.8.1-43	0	3.9.3-1	0
Fig. 3.8.1-44	0	3.9.3-2	3
Fig. 3.8.1-45	0	3.9.3-3	2
Fig. 3.8.1-46	0	3.9.3-4	21
Fig. 3.8.1-47	0	3.9.3-5	21
Fig. 3.8.1-48	0	3.9.3-6	21
		3.9.3-6a	21
Fig. 3.8.3-1	19	3.9.3-7	0
Fig. 3.8.3-2	19	3.9.3-8	21
Fig. 3.8.3-3	19	3.9.3-9	21

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
3.9.3-10	3	Fig. 3.11.1-2	25
3.9.3-11	0		
		Fig. 3.11.2-1 thru 2-4 Deleted	
3.9.4-1	21		
3.9.4-2	0	Fig. 3.11.5-1	10
3.9.4-3	19	Fig. 3.11.5-2	10
3.9.4-4	21		
		Chapter 4 Tab	-
3.9.5-1	0	Chapter 4 Cover Sheet	-
3.9.5-2	0	4-i	21
3.9.5-3	15	4-ii	21
3.9.5-4	15	4-iii	15
3.9.5-5	0	4-iv	11
3.9.5-6	0	4-v	26
3.9.5-7	0	4-vi	3
3.9.5-8	0	4-vii	26
		4-viii	28
3.9.6-1	28		
		Section 4.1 Tab	-
3.9R-1	21	4.1.1-1	28
3.9R-2	28		
		4.1.2-1	26
Fig. 3.9.2-1	0	4.1.2-2	28
		4.1.2-3	27
Fig. 3.9.4-1	21	4.1.2-4	28
Fig. 3.9.4-2	0	4.1.2-5	24
		4.1.2-6	26
Fig. 3.9.5-1	0		
Fig. 3.9.5-2	19	4.1R-1	15
Fig. 3.9.5-3	0		
		Fig. 4.1.1-1	21
Section 3.10 Tab	-	Fig. 4.1.1-2	0
3.10.0-1	10	Fig. 4.1.1-3	28
3.10.0-2	17		
		Fig. 4.1.2-1	3
3.10R-1	17	Fig. 4.1.2-2	0
		Fig. 4.1.2-3	26
Section 3.11 Tab	-	Fig. 4.1.2-4	26
3.11.1-1	10	Fig. 4.1.2-5	26
3.11.1-2	10	Fig. 4.1.2-6	26
3.11.2-1	10	Section 4.2 Tab	-
3.11.2-2	10	4.2.1-1	28
		4.2.1-1a	28
3.11.3-1	10	4.2.1-2	28
		4.2.1-3	24
3.11.4-1	12	4.2.1-4	27
		4.2.1-5	24
3.11.5-1	23	4.2.1-6	24
		4.2.1-7	25
3.11R-1	16		
Fig. 3.11.1-1	25		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
4.2.2-1	26	Section 4.4 Tab	-
4.2.2-2	28	4.4.1-1	10
4.2.2-3	24		
4.2.2-4	28	4.4.2-1	26
4.2.2-5	24	4.4.2-2	16E1
4.2.2-6	26	4.4.3-1	26
4.2.2-7	26	4.4.3-2	26
4.2.2-8	24	4.4.3-3	16
4.2.2-9	25		
		4.4R-1	21
4.2.3-1	28		
4.2.3-2	27	Fig. 4.4.3-1	25
4.2.3-3	28	Fig. 4.4.3-2	19
4.2.3-4	27		
4.2.3-5	26	Section 4.5 Tab	-
4.2.3-6	15	4.5.1-1	21
4.2.3-7	15		
		4.5.2-1	0
4.2.4-1	26		
		Section 4.6 Tab	-
4.2R-1	27	4.6.0-1	21
Fig. 4.2.2-1 Deleted	13	Chapter 5 Tab	-
Fig. 4.2.2-2	13	Chapter 5 Cover Sheet	-
Fig. 4.2.2-2A	20	5-i	3
Fig. 4.2.2-2B	21	5-ii	11
Fig. 4.2.2-2C	22	5-iii	21
Fig. 4.2.2-2D	27	5-iv	11
Fig. 4.2.2-2E	28	5-v	20
Fig. 4.2.2-3	3	5-vi	20
Section 4.3 Tab	-	Section 5.1 Tab	-
4.3.1-1	28	5.1.0-1	8
4.3.1-2	15	5.1.0-2	25
		5.1.0-2a	25
4.3.2-1	26	5.1.0-3	25
4.3.2-2	17		
4.3.2-3	26	5.1.1-1	0
4.3.2-4	26		
4.3.2-5	0	Fig. 5.1.1-1	7
4.3.2-6	13		
4.3.2-7	0	Fig. 5.1.2-1	26
4.3.2-8	0	Fig. 5.1.2-2	9
4.3.2-9	0		
		Fig. 5.1.3-1	5
4.3.3-1	26		
4.3.3-2	26		
4.3R-1	26		
Fig. 4.3.2-1	3		
Fig. 4.3.2-2	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 5.2.Tab	-		
5.2.1-1	19	5.3R-1	20
		5.3R-2	28
5.2.2-1	16		
5.2.2-2	25	Fig. 5.3.0-1	21
		Fig. 5.3.1-1	20
5.2.3-1	0	Fig. 5.3.1-2	1
5.2.3-2	19	Fig. 5.3.1-3	6
5.2.3-3	3	Fig. 5.3.1-4	24
5.2.3-4	21	Fig. 5.3.1-5-Deleted	20
5.2.3-5	18	Fig. 5.3.1-6-Deleted	15
5.2.3-6	26	Fig. 5.3.1-7-Deleted	15
		Fig. 5.3.1-8-Deleted	15
5.2.4-1	19	Fig. 5.3.1-9-Deleted	15
5.2.4-2	19	Fig. 5.3.1-10-Deleted	15
5.2.4-3	19	Fig. 5.3.1-11-Deleted	15
5.2.4-4	0		
5.2.4-5	0	Section 5.4 Tab	-
5.2.4-6	0	5.4.1-1	26
5.2.4-7	0	5.4.1-2	0
5.2.4-8	0	5.4.1-3	24
		5.4.1-4	0
5.2.5-1	16		
5.2.5-2	15	5.4.2-1	19
5.2.5-3	0	5.4.2-2	19
5.2.5-4	9	5.4.2-3	19
5.2.5-5	26		
5.2.5-6	12	5.4.3-1	0
5.2.5-7	26	5.4.3-2	0
5.2.5-8	19		
5.2.5-9	0	5.4.4-1	15
5.2.5-10	12	5.4.4-2	22
5.2R-1	16		
		5.4.5-1	0
Section 5.3 Tab	-		
5.3.0-1	0	5.4.6-1	15
5.3.0-2	19	5.4.6-2	25
		5.4.6-3	0
5.3.1-1	6		
5.3.1-2	6	5.4.7-1	14
5.3.1-3	20		
5.3.1-4	28	5.4.8-1	17
5.3.1-5	20		
5.3.1-6	24	5.4.9-1	25
5.3.1-7	20		
5.3.1-8	15	5.4.10-1	20
5.3.1-9	3	5.4.10-2	3
5.3.1-10	10		
5.3.1-11	20		
5.3.1-12	20		
5.3.2-1	20		
5.3.2-2	20		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
5.4R-1	2	Section 6.2 Tab	0
		6.2.1-1	20
Fig. 5.4.1-1	0	6.2.1-2	21
Fig. 5.4.1-2	0	6.2.1-3	25
		6.2.1-4	25
Fig. 5.4.2-1	3	6.2.1-5	25
Fig. 5.4.4-1	19	6.2.1-6	25
		6.2.1-7	17
		6.2.1-8	17
Fig. 5.4.6-1	0	6.2.1-9	17
		6.2.1-10	17
Chapter 6 Tab	-	6.2.1-11	25
Chapter 6 Cover Sheet	-	6.2.1-12	21
6-i	21	6.2.1-13	24
6-ii	25	6.2.1-14	25
6-iii	25	6.2.1-15	21
6-iv	25	6.2.1-16	25
6-v	21	6.2.1-17	25
6-vi	21	6.2.1-18	25
6-vii	21	6.2.1-19	17
6-viii	21	6.2.1-20	17
6-ix	21	6.2.1-21	17
6-x	21	6.2.1-22	17
6-xi	17	6.2.1-23	25
6-xii	25	6.2.1-23a	25
6-xiii	25	6.2.1-23b	25
6-xiv	25	6.2.1-24	25
6-xv	21	6.2.1-25	25
6-xvi	17	6.2.1-26	25
6-xvii	17	6.2.1-27	19
6-xviii	17	6.2.1-28	19
6-xix	21	6.2.1-29	19
6-xx	21	6.2.1-30	27
		6.2.1-31	19
Section 6.0 Tab	-	6.2.1-32	19
6.0-1	20	6.2.1-33	17
		6.2.1-34	25
Section 6.1 Tab		6.2.1-35	25
6.1.1-1	16	6.2.1-36	25
6.1.1-1a	16	6.2.1-37	25
6.1.1-2	26	6.2.1-38	25
6.1.1-3	18	6.2.1-39	25
6.1.1-4	25	6.2.1-39a	25
6.1.1-5	19	6.2.1-40	19
6.1.1-6	22	6.2.1-41	25
6.1.1-7	19	6.2.1-42	25
6.1.1-8	23	6.2.1-43	21
6.1.1-9	15	6.2.1-44	21
6.1.1-10 Deleted	22	6.2.1-45	21
6.1.1-11	15	6.2.1-46	25
6.1.1-12	15	6.2.1-47	25
6.1.2-1	27	6.2.1-48	25
6.1.2-2	17	6.2.1-49	25
		6.2.1-50	25
6.1R-1	0	6.2.1-51	25
		6.2.1-52	25
		6.2.1-53	25
		6.2.1-54	25
		6.2.1-55	25

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
6.2.1-56	25	6.2.2-8a	15
6.2.1-57	25	6.2.2-9	22
6.2.1-58	25	6.2.2-10	15
6.2.1-59	25	6.2.2-11	0
6.2.1-60	25	6.2.2-12	15E2
6.2.1-61	25	6.2.2-13	0
6.2.1-62	25	6.2.2-14	0
6.2.1-63 Deleted	25	6.2.2-15	15
6.2.1-64 Deleted	25	6.2.2-16	15
6.2.1-65 Deleted	25	6.2.2-17	15
6.2.1-66 Deleted	25	6.2.2-18	15
6.2.1-67 Deleted	25	6.2.2-19	15
6.2.1-68 Deleted	25	6.2.2-20	22
6.2.1-69	25	6.2.2-21	21
6.2.1-70	25	6.2.2-22	15
6.2.1-71	25	6.2.2-23	15
6.2.1-72	25	6.2.2-24	15
6.2.1-73	25	6.2.2-25	15
6.2.1-74	25	6.2.2-26	21
6.2.1-75	25	6.2.2-27	0
6.2.1-76	25	6.2.2-28	0
6.2.1-77	25	6.2.2-29	15
6.2.1-78	25	6.2.2-30	15
6.2.1-79	25	6.2.2-31	15
6.2.1-80	25	6.2.2-32	0
6.2.1-81	25		
6.2.1-82	25	6.2.3-1	0
6.2.1-83	25		
6.2.1-84	25	6.2.4-1	15
6.2.1-85	25	6.2.4-2	27
6.2.1-86	25	6.2.4-3	27
6.2.1-87	25	6.2.4-4	27
6.2.1-88	25	6.2.4-5	27
6.2.1-89	25	6.2.4-6	15
6.2.1-90	25	6.2.4-7	17
6.2.1-91	25	6.2.4-8	17
6.2.1-92	25	6.2.4-9	13
6.2.1-93	25	6.2.4-10	27
6.2.1-94	25	6.2.4-11	12
6.2.1-95	25	6.2.4-12	12
6.2.1-96	25	6.2.4-13	19
6.2.1-97	25	6.2.4-14	12
6.2.1-98	25	6.2.4-15	23
6.2.1-99	25	6.2.4-16	18
6.2.1-100	25	6.2.4-17	14
		6.2.4-18	17
6.2.2-1	15	6.2.4-19	20
6.2.2-2	21	6.2.4-20	28
6.2.2-3	15	6.2.4-21	14
6.2.2-4	21	6.2.4-22	26
6.2.2-5	21		
6.2.2-6	21		
6.2.2-7	17		
6.2.2-8	17		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
6.2.4-23	18		
6.2.4-24	13	Fig. 6.2.4-4	15
6.2.4-25	24	Fig. 6.2.4-5	22
6.2.4-26	12	Fig. 6.2.4-6	21
		Fig. 6.2.4-7	12
6.2.5-1	20	Fig. 6.2.4-8	17
		Fig. 6.2.4-9	14
6.2.6-1	27	Fig. 6.2.4-10	20
6.2.6-2	19	Fig. 6.2.4-11	14
6.2.6-3	27	Fig. 6.2.4-12	14
		Fig. 6.2.4-13	28
6.2R-1	25	Fig. 6.2.4-14	12
6.2R-1a	25	Fig. 6.2.4-15	17
6.2R-2	25	Fig. 6.2.4-16	26
6.2R-3	27	Fig. 6.2.4-17	14
		Fig. 6.2.4-18	15
Fig. 6.2.1-1	25	Fig. 6.2.4-19	15
Fig. 6.2.1-2	25	Fig. 6.2.4-20	Deleted
Fig. 6.2.1-3 Deleted	21	Fig. 6.2.4-21	14
Fig. 6.2.1-4 Deleted	21		
Fig. 6.2.1-5 Deleted	21	Fig. 6.2.5-2	15
Fig. 6.2.1-6 Deleted	21		
Fig. 6.2.1-7 through		Section 6.3 Tab	-
Fig. 6.2.1-12 -Deleted	17	6.3.1-1	7
Fig. 6.2.1-13	0	6.3.1-2	15
Fig. 6.2.1-14 through		6.3.1-3	0
Fig. 6.2.1-15 Deleted	17		
		6.3.2-1	24
Fig. 6.2.1.4-1	19	6.3.2-2	21
Fig. 6.2.1.4-2	19	6.3.2-3	27
Fig. 6.2.1.4-3	25	6.3.2-4	21
Fig. 6.2.1.4-4	25	6.3.2-4a	21
Fig. 6.2.1.4-5	19	6.3.2-5	16E1
Fig. 6.2.1.4-6	19	6.3.2-6	16
Fig. 6.2.1.4-7	19	6.3.2-6a	16E1
Fig. 6.2.1.4-8	19	6.3.2-7	15
Fig. 6.2.1.4-9	17	6.3.2-8	15
Fig. 6.2.1.4-10	17	6.3.2-8a	15
Fig. 6.2.1.4-11	17	6.3.2-9	11
Fig. 6.2.1.4-12	17	6.3.2-10	15
		6.3.2-11	24
Fig. 6.2.2-1	21	6.3.2-12	26
Fig. 6.2.2-2	15	6.3.2-13	11
Fig. 6.2.2-3	0	6.3.2-14	22
Fig. 6.2.2-4	0	6.3.2-15	17
Fig. 6.2.2-5	0	6.3.2-16	19
Fig. 6.2.2-6	6	6.3.2-17	27
Fig. 6.2.4-1	12		
Fig. 6.2.4-2	23		
Fig. 6.2.4-3	17		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
6.3.2-18	20	6.4.3-1	24
6.3.2-19	20		
6.3.2-20	24	6.4.4-1	25
6.3.2-21	21	6.4.4-2	19
6.3.2-22	22	6.4.4-3 Deleted	19
6.3.2-23	7	6.4.4-4	19
6.3.2-24	11	6.4.4-5	19
6.3.2-25	23	6.4.4-6	19
6.3.2-26	23		
6.3.2-27	15	6.4.5-1	15
6.3.2-28	27		
6.3.2-29	15	6.4.6-1	10
6.3.2-30	21		
6.3.2-31	7	6.4R-1	20
6.3.2-32	12		
6.3.2-33	0	Fig. 6.4.2-1	25
6.3.2-34	15		
6.3.2-35	0	Section 6.5 Tab	-
6.3.2-36	0	6.5.1-1	20
6.3.3-1	0	6.5.2-1	21
6.3.3-2	5	6.5.2-2	21
6.3.3-3	0	6.5.2-3	21
		6.5.2-4	21
6.3.4-1	15	6.5.2-5	21
6.3.4-2	25		
6.3.4-3	25	6.5.3-1	21
6.3.4-4	21		
		6.5R-1	21
6.3.5-1	0		
		Section 6.6 Tab	-
6.3R-1	27	6.6.0-1	19
Fig. 6.3.2-1	28	Section 6.7 Tab	-
Fig. 6.3.2-2	25	6.7.0-1	0
Fig. 6.3.2-3	27		
Fig. 6.3.2-4a	15	Section 6.8 Tab	-
Fig. 6.3.2-4b	15	6.8.1-1	0
Fig. 6.3.2-4c	15		
Fig. 6.3.2-5	0	6.8.2-1	22
		6.8.2-2	22
Section 6.4 Tab	-	6.8.2-3	18
6.4.1-1	27	6.8.2-4	28
6.4.1-2	19	6.8.2-5	0
6.4.2-1	10	6.8.2-6	15
6.4.2-2 Deleted	10		
6.4.2-3	25	6.8.3-1	15
6.4.2-4	21	6.8.3-2	0

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
6.8.4-1	22	7.2.1-9	14
6.8.5-1	22	7.2.1-10	15
6.8.5-2	22	7.2.1-11	15
		7.2.1-12	15
Fig. 6.8.2-1	22	7.2.1-13	15
Fig. 6.8.2-2	0	7.2.1-14	15
		7.2.1-15	15
Section 6.9 Tab	-	7.2.1-16	19
6.9.1-1	19	7.2.1-17	15
		7.2.1-18	15
6.9.2-1	15	7.2.1-19	24
6.9.2-2	22	7.2.1-20	17
		7.2.1-21	17
6.9.2-3	14	7.2.1-22	19
		7.2.1-23	19
6.9.3-1	14	7.2.1-24	15
		7.2.1-25	28
6.9.4-1	14	7.2.1-26	13
		7.2.1-27	0
Chapter 7 Tab	-	7.2.1-28	20
Chapter 7 Cover Sheet	-	7.2.1-29	3
7-i	11	7.2.1-30	0
7-ii	11	7.2.1-31	25
7-iii	15	7.2.1-32	24
7-iv	27	7.2.1-33	17
7-v	21	7.2.1-34	0
7-vi	21	7.2.1-35	11
7-vii	28	7.2.1-36	19
7-viii	21	7.2.1-37	22
7-ix	15	7.2.1-38	15
7-x	21		
		7.2.2-1	22
Section 7.1 Tab	-	7.2.2-2	15
7.1.0-1	25	7.2.2-3	22
7.1.0-2	24	7.2.2-4	25
		7.2.2-5	25
Section 7.2 Tab	-	7.2.2-6	15
7.2.1-1	10	7.2.2-7	15
7.2.1-2	26	7.2.2-8	24
7.2.1-2a	26	7.2.2-9	0
7.2.1-3	7	7.2.2-10	0
7.2.1-4	13	7.2.2-11	0
7.2.1-4a	13	7.2.2-12	0
7.2.1-5	24		
7.2.1-6	25	7.2R-1	0
7.2.1-7	17		
7.2.1-8	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Fig. 7.2.1-1	25	7.3.2-1	0
Fig. 7.2.1-2	0	7.3.2-2	1
Fig. 7.2.1-3	3	7.3.2-3	18
Fig. 7.2.1-4	3		
Fig. 7.2.1-5	0	Section 7.4 Tab	-
Fig. 7.2.1-6	15	7.4.1-1	28
Fig. 7.2.1-7	22	7.4.1-2	27
Fig. 7.2.1-8	15	7.4.1-3	28
Fig. 7.2.1-9	15	7.4.1-4	27
Fig. 7.2.1-10	0	7.4.1-5	27
Fig. 7.2.1-11	3	7.4.1-6	27
Fig. 7.2.1-12	24	7.4.1-7	28
Fig. 7.2.1-13	15		
Fig. 7.2.1-14	25	7.4.2-1	28
Fig. 7.2.1-15	15	7.4.2-2	28
Fig. 7.2.1-16	25	7.4.2-3	15
Fig. 7.2.1-17	15E2		
Fig. 7.2.1-18	25	7.4R-1	28
Fig. 7.2.1-19	15		
Fig. 7.2.1-20	15	Section 7.5 Tab	-
Fig. 7.2.1-21	15E2	7.5.1-1	28
Fig. 7.2.1-22	0	7.5.1-2	28
Fig. 7.2.1-23	25	7.5.1-3	19
Fig. 7.2.1-24	27		
Fig. 7.2.1-25	17	7.5.2-1	15
Fig. 7.2.1-26	24		
Fig. 7.2.1-27	15	Section 7.6 Tab	-
Fig. 7.2.1-28	27	7.6.1-1	13
Fig. 7.2.1-29	18E		
Fig. 7.2.1-30	16	7.6.2-1	0
Fig. 7.2.1-31	15		
Fig. 7.2.1-32	15	7.6R-1	0
Fig. 7.2.1-33	25		
Fig. 7.2.1-34	25	Fig. 7.6.1-1	25
Fig. 7.2.1-35	18	Fig. 7.6.1-2	7
Section 7.3 Tab	-	Section 7.7 Tab	-
7.3.1-1	24	7.7.1-1	25
7.3.1-2	24	7.7.1-2	25
7.3.1-3	24	7.7.1-3	0
7.3.1-4	15	7.7.1-4	24
7.3.1-5	15	7.7.1-5	17
7.3.1-6	15	7.7.1-6	17
7.3.1-6a	15	7.7.1-7	19
7.3.1-7	0	7.7.1-8	7
7.3.1-8	8	7.7.1-9	15
7.3.1-9	24	7.7.1-10	15

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
7.7.1-11	18	8.3.1-4	28
7.7.1-12	28	8.3.1-5	24
7.7.1-13	28	8.3.1-6	20
7.7.1-14	28	8.3.1-6a	16
7.7.1-15	28	8.3.1-7	18
7.7.1-16	28	8.3.1-8	28
7.7.1-17	28	8.3.1-9	28
		8.3.1-10	10
7.7.2-1	19	8.3.1-11	25
7.7.2-2	24	8.3.1-12	25
7.7.2-3	0	8.3.1-13	28
		8.3.1-14	20
7.7R-1	24	8.3.1-15	20
		8.3.1-16	22
Fig. 7.7.1-1	22	8.3.1-17	20
Fig. 7.7.1-2	24	8.3.1-18	20
Fig. 7.7.1-3	25	8.3.1-19	20
Chapter 8 Tab	-	8.3.2-1	28
Chapter 8 Cover Sheet	-	8.3.2-2	26
8-i	11		
8-ii	10	8.3.3-1	28
8-iii	20	8.3.3-2	28
8-iv	28	8.3.3-3	10
Section 8.1 Tab	-	8.3R-1	28
8.1.1-1	10	8.3R-2	28
8.1.2-1	28	Fig. 8.3.1-1	28
8.1.2-2	15	Fig. 8.3.1-2 – Sh. 1	28
		Fig. 8.3.1.2 – Sh. 2	15E2
8.1.3-1	20	Fig. 8.3.1-2 – Sh. 3	28
		Fig. 8.3.1-3	25
Fig. 8.1.2-1	28	Fig. 8.3.1-4	28
Fig. 8.1.2-1a	28	Fig. 8.3.1-5	28
Section 8.2 Tab	-	Chapter 9 Tab	-
8.2.1-1	27	Chapter 9 Cover Sheet	-
8.2.1-2	28	9-i	21
8.2.1-3	28	9-ii	21
		9-iii	25
8.2.2-1	28	9-iv	28
8.2.2-2	28	9-v	28
		9-vi	28
Fig. 8.2.1-1	27	9-vii	28
Fig. 8.2.2-1	28	9-viii	28
		9-ix	28
Section 8.3 Tab	-	9-x	28
8.3.1-1	28	9-xi	28
8.3.1-2	28	9-xii	28
8.3.1-2a	28		
8.3.1-3	28		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
9-xiii	28	Fig. 9.1.1-1	14
9-xiv	28		
		Fig. 9.1.2-1 Deleted	24
Section 9.1 Tab	-	Fig. 9.1.2-2	2
9.1.1-1	15	Fig. 9.1.2-3	2
9.1.1-2	15	Fig. 9.1.2-4	2
		Fig. 9.1.2-5	19
9.1.2-1	19		
9.1.2-1a	19	Fig. 9.1.3-1	26
9.1.2-2	24		
9.1.2-3	19	Fig. 9.1.4-1	11
9.1.2-4	20		
9.1.2-4a	26	Section 9.2 Tab	-
9.1.2-5	19	9.2.1-1	15
9.1.2-6	19	9.2.1-2	25
		9.2.1-3	15
9.1.3-1	19	9.2.1-4	27
9.1.3-2	26	9.2.1-5	19
		9.2.1-5a	16
9.1.3-3	15	9.2.1-6	18
9.1.3-4	15	9.2.1-7	18
9.1.3-5	20		
9.1.3-6	17	9.2.2-1	15
9.1.3-7	23	9.2.2-2	24
9.1.3-8	14	9.2.2-3	28
		9.2.2-4	27
9.1.4-1	20	9.2.2-5	28
9.1.4-1a	20	9.2.2-6	19
9.1.4-2	17	9.2.2-7	17
9.1.4-3	24	9.2.2-8	20
9.1.4-3a	24	9.2.2-9	0
9.1.4-4	25	9.2.2-10	0
9.1.4-5	25		
9.1.4-5a	25	9.2.3-1	19
9.1.4-6	15	9.2.3-2	11
9.1.4-7	25	9.2.3-3	25
9.1.4-7a	25		
9.1.4-8	25	9.2.4-1	0
9.1.4-9	22		
		9.2.5-1	16
9.1.5-1	24		
9.1.5-2	27	Fig. 9.2.1-1	26
9.1.5-3	24		
9.1.5-4	26	Fig. 9.2.2-1	23
9.1.5-5	27	Fig. 9.2.2-2	26
9.1.5-6	24	Fig. 9.2.2-3	25
9.1.5-7	24		
		Fig. 9.2.3-1	27
9.1R-1	22	Fig. 9.2.3-2	20
9.1R-2	22		
9.1R-3	22		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 9.3 Tab	-	Fig. 9.3.2-1	21
9.3.1-1	19	Fig. 9.3.2-2	21
9.3.1-2	18	Fig. 9.3.2-3	19
9.3.1-3	18		
9.3.1-4	22	Fig. 9.3.4-1	28
9.3.1-5	17	Fig. 9.3.4-2	15E2
		Fig. 9.3.4-3	26
9.3.2-1	19	Fig. 9.3.4-4	15E2
9.3.2-2	15	Fig. 9.3.4-5	15E2
9.3.2-3	15	Fig. 9.3.4-6	15
9.3.2-4	21		
9.3.2-5	15	Section 9.4 Tab	-
9.3.2-5a	19	9.4.1-1	25
9.3.2-5b	19	9.4.1-2	24
9.3.2-5c	19	9.4.1-3	15
9.3.2-5d	19		
9.3.2-5e	19	9.4.2-1	22
9.3.2-6	0	9.4.2-2	28
9.3.2-7	0	9.4.2-3	28
9.3.2-8	0		
9.3.2-9	1	9.4.3-1	22
		9.4.3-2	22
9.3.3-1	14	9.4.3-3	22
9.3.4-1	15E2	9.4.3-4	22
9.3.4-1a	15	9.4.3-4a	22
9.3.4-2	25	9.4.3-5	22
9.3.4-3	14	9.4.3-5a	22
9.3.4-4	14	9.4.3-6	19
9.3.4-5	15	9.4.3-7	15
9.3.4-6	15	9.4.3-8	20
9.3.4-7	18		
9.3.4-8	19	9.4.4-1	25
9.3.4-9	15	9.4.4-2	25
9.3.4.10	24		
9.3.4.11	15	9.4.5-1	22
9.3.4-12	15		
9.3.4-13	15	9.4.6-1	22
9.3.4-14	15		
9.3.4-15	28	9.4.7.1	22
9.3.4-16	15		
9.3.4-17	15	9.4.8-1	15
9.3.4-18	28		
9.3.4-19	15	9.4.9-1	22
9.3.4-20	15		
9.3.4-21	23	9.4.10-1	17E1
9.3.4-22	15		
9.3.4-23	20	9.4.11-1	26
9.3.4-24	15		
9.3.4-25	12	9.4R-1	25
9.3R-1	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Fig. 9.4.1-1	15	10.2.3-6	28
Fig. 9.4.1-2	28	10.2.3-7	28
Fig. 9.4.1-3	15	10.2.3-8	24
Fig. 9.4.1-4	15	10.2.3-9 Deleted	7
Fig. 9.4.1-5	20	10.2.3-10 Deleted	7
		10.2.3-11	24
Section 9.5 Tab	-		
9.5.1-1	28	10.2.4-1	28
9.5.1-2	28		
9.5.1-3	28	10.2R-1	28
9.5.1-4	28		
9.5.1-5	28	Fig. 10.2.2-1	12
9.5.1-6	28		
		Fig. 10.2.3-1	24
9.5.2-1	28	Fig. 10.2.3-2	0
9.5.2-1A	28	Fig. 10.2.3-3	28
9.5.2-2	28	Fig. 10.2.3-4	28
9.5.2-3	28		
9.5.2-4	28	Section 10.3 Tab	-
		10.3.1-1	0
9.5.3-1	22		
		10.3.2-1	26
Fig. 9.5.2-1	27	10.3.2-2	19
Chapter 10 Tab	-	10.3.3-1	19
Chapter 10 Cover Sheet	-		
10-i	1	10.3.4-1	13
10-ii	21		
10-iii	11	10.3.5-1	24
10-iv	28		
10-v	24	10.3.6-1	0
Section 10.1 Tab	-	10.3R-1	16
10.1.0-1	0		
		Section 10.4 Tab	-
Fig. 10.1.0-1	19	10.4.1-1	17
Fig. 10.1.0-2	15E2	10.4.1-2	2
Fig. 10.1.0-3	17		
Fig. 10.1.0-4	17	10.4.2-1	15
Fig. 10.1.0-5	26	10.4.2-2	15
Fig. 10.1.0-6	18	10.4.3-1	0
Fig. 10.1.0-7	19		
Fig. 10.1.0-8	27	10.4.4-1	19
Section 10.2 Tab	-	10.4.5-1	16
10.2.1-1	24		
10.2.1-2	28	10.4.6-1	27
10.2.2-1	28	10.4.6-1a	15E2
10.2.2-2	15	10.4.6-2	15
10.2.3-1	28	10.4.6-3	3
10.2.3-2	28	10.4.6-4	15
10.2.3-3	24	10.4.6-5	15
10.2.3-4	28	10.4.6-6	3
10.2.3-5	28		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
10.4.7-1	25	11.2.1-8	25
10.4.7-2	6		
		11.2.2-1	17
10.4.8-1	25	11.2.2-2	17
10.4.8-1a	16	11.2.2-3	17
10.4.8-2	25	11.2.2-4	15
10.4.8-2a	16	11.2.2-4a	25
10.4.8-3	12		
10.4.8-3a	12	11.2.3-1	27
10.4.8-4	15	11.2.3-2	15
10.4.8-5	0		
		Fig. 11.2.2-1	27
10.4R-1	16	Fig. 11.2.2-2	23
		Fig. 11.2.2-3	23
Chapter 11 Tab	-	Fig. 11.2.2-4	23
Chapter 11 Cover Sheet	-	Fig. 11.2.2-5	15
11-i	25		
11-ii	21	Section 11.3 Tab	-
11-iii	25	11.3.1-1	15
11-iv	21	11.3.2-1	15E1
11-v	14	11.3.2-2	19
		11.3.2-3	15
Section 11.1 Tab	-	11.3.2-4	19
11.1.1-1	0	11.3.2-5	28
11.1.1-2	19		
11.1.1-3	16	11.3.3-1	15E2
11.1.1-4	19		
11.1.1-5	16	Fig. 11.3.2-1	17
		Fig. 11.3.2-2	15
11.1.2-1	13		
11.1.2-2	13	Section 11.4 Tab	-
11.1.2-3	20	11.4.1-1	15
11.1.2-4	16	11.4.2-1	18
		11.4.2-2	17
11.1R-1	13		
Fig. 11.1.2-1	13	Section 11.5 Tab	-
Fig. 11.1.2-2	13	11.5.1-1	24
Fig. 11.1.2-3	13	11.5.2-1	27
Fig. 11.1.2-4	13	11.5.2-1a	25
Fig. 11.1.2-5	13	11.5.2-2	13
Fig. 11.1.2-6	13	11.5.2-3	10
		11.5.2-4	22
11.1.3-1	17	11.5.2-4a	21
		11.5.2-4b	10
Section 11.2 Tab	-	11.5.2-5	16
11.2.1-1	21	11.5.2-6	28
11.2.1-1a	17	11.5.2-6a	17
11.2.1-2	15	11.5.2-6b	28
11.2.1-3	0	11.5.2-6c	19
11.2.1-4	15	11.5.2-7	25
11.2.1-5	15	11.5.2-8	25
11.2.1-6	15		
11.2.1-7	14		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Chapter 12 Tab	-	12.5.2-2	28
Chapter 12 Cover Sheet	-	12.5.2-3	28
12-i	21		
12-ii	21	12.5.3-1	25
12-iii	16	12.5.3-2	19
12-iv	25	12.5.3-3	28
12-v	10	12.5.3-4	28
12-vi	19	12.5.3-5	28
		12.5.3-6	15
Section 12.1 Tab	-	12.5.3-7	26
12.1.1-1	28	12.5.3-8	28
12.1.1-2	27	12.5.3-9	28
12.1.1-3	28	12.5.3-10	26
12.1.1-4	28		
12.1.2-1	0	Fig. 12.5.2-1	28
12.1.3-1	28	Fig. 12.5.2-2	14
12.1.3-2	28		
		Chapter 13 Tab	-
		Chapter 13 Cover Sheet	-
Section 12.2 Tab	-	13-i	21
12.2.0-1	19	13-ii	24
Section 12.3 Tab	-	Section 13.1 Tab	-
12.3.1-1	21	13.1.1-1	27
12.3.1-2	16	13.1.1-2	27
12.3.1-3	20	13.1.1-3	27
12.3.1-4	14		
12.3.1-5	19	13.1.2-1	27
12.3.1-6	19	13.1.2-2	27
12.3.1-7	19	13.1.2-3	26
12.3.1-8	0	13.1.2-4	27
12.3.1-9	19	13.1.2-5	27
		13.1.2-6	27
12.3.2-1	0	13.1.2-7	27
		13.1.2-8	27
12.3.3-1	26		
12.3.3-2	28	13.1.3-1	27
12.3.3-3	28		
12.3.3-4	15	13.1R-1	23
12.3.3-5	25		
12.3.3-6	16	Fig. 13.1.1-1	27
12.3.3-7	19	Fig. 13.1.2-1	27
12.3.3-8	20		
		Section 13.2 Tab	-
Section 12.4 Tab	-	13.2.1-1	15
12.4.0-1	27	13.2.2-1	25
Section 12.5 Tab	-	13.2R-1	14
12.5.1-1	28		
12.5.1-2	28	Section 13.3 Tab	-
12.5.1-3	28	13.3.0-1	15
12.5.2-1	28	13.3R-1	13

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 13.4 Tab	-	14.2.2-25	0
13.4.0-1	28	14.2.2-26	0
		14.2.2-27	0
Section 13.5 Tab	-	14.2.2-28	0
13.5.0-1	27	14.2.2-29	0
		14.2.2-30	0
Section 13.6 Tab	-	14.2.2-31	0
13.6.0-1	21	14.2.2-32	0
		14.2.2-33	0
Chapter 14 Tab	-	14.2.2-34	0
Chapter 14 Cover Sheet	-	14.2.2-35	0
14-i	27	14.2.2-36	0
14-ii	0	14.2.2-37	0
14-iii	0	14.2.2-38	0
14-iv	0	14.2.2-39	0
14-v	0	14.2.2-40	0
		14.2.2-41	0
Section 14.1 Tab	-		
14.1.0-1	0	14.2.3-1	0
Section 14.2 Tab	-	14.2.4-1	0
14.2.1-1	0	14.2.4-2	24
14.2.1-2	0		
14.2.1-3	28	14.2.5-1	0
14.2.1-4	26		
14.2.1-5	0	14.2.6-1	0
14.2.1-6	24	14.2.6-2	0
		14.2.6-3	0
14.2.2-1	0	14.2.6-4	0
14.2.2-2	0	14.2.6-5	0
14.2.2-3	0	14.2.6-6	0
14.2.2-4	0	14.2.6-7	0
14.2.2-5	0	14.2.6-8	0
14.2.2-6	0	14.2.6-9	0
14.2.2-7	24	14.2.6-10	0
14.2.2-8	0	14.2.6-11	24
14.2.2-9	0	14.2.6-12	0
14.2.2-10	0	14.2.6-13	24
14.2.2-11	0	14.2.6-14	0
14.2.2-12	0		
14.2.2-13	0	Fig. 14.2.2-1	0
14.2.2-14	0		
14.2.2-15	0	Section 14.3 Tab	
14.2.2-16	0		-
14.2.2-17	0	14.3.0-1	0
14.2.2-18	0		
14.2.2-19	0		
14.2.2-20	0		
14.2.2-21	0		
14.2.2-22	0		
14.2.2-23	0		
14.2.2-24	0		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Chapter 15 Tab	-		
Chapter 15 Cover Sheet	-	15.0.9-1	3
15-i	20	15.0.9-2	17
15-ii	21	15.0.9-3	17
15-iii	15	15.0.9-4	14
15-iv	20	15.0.9-5	17
15-v	21		
15-vi	21	15.0.10-1	26
15-vii	28		
15-viii	21	15.0.11-1	3
15-ix	23	15.0.11-2	17
15-ixa	21	15.0.11-3	17
15-x	22	15.0.11-4	22
15-xi	24	15.0.11-5	17
15-xii	22		
15-xiii	22	15.0.12-1	28
15-xiv	25	15.0.12-2	28
15-xiva	17	15.0.12-3	28
15-xv	17	15.0.12-4	28
15-xvi	22	15.0.12-5	20
15-xvii	24	15.0.12-6	28
15-xviii	24	15.0.12-7	20
15-xix	22		
		15.0R-1	24
Section 15.0 Tab	-	15.0R-2	20
15.0.1-1	15		
15.0.1-2	21	Fig. 15.0.3-1	28
15.0.1-3	14		
15.0.1-4	17	Fig. 15.0.6-1	3
15.0.2-1	28	Section 15.1 Tab	-
15.0.2-2	25		
15.0.2-3	28	15.1.0-1	0
15.0.3-1	25	15.1.1-1	19
15.0.3-2	28		
		15.1.2-1	25
15.0.4-1	19		
15.0.4-2	26	15.1.3-1	22
15.0.4-3	27	15.1.3-2	26
		15.1.3-3	28
15.0.5-1	26	15.1.3-4	28
15.0.5-2	25		
		15.1.4-1	19
15.0.6-1	13		
15.0.7-1	25		
15.0.7-2	28		
15.0.7-3	19		
15.0.8-1	3		
15.0.8-2	25		
15.0.8-2a	25		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
15.1.5-1	24	15.2.2-3a	28
15.1.5-2	24	15.2.2-4	25
15.1.5-3	25	15.2.2-4a	28
15.1.5-4	26		
15.1.5-5	28	15.2.3-1	3
15.1.5-5a	28		
15.1.5-5b	28	15.2.4-1	19
15.1.5-6	22		
15.1.5-6a	28	15.2.5-1	19
15.1.5-7	22	15.2.6-1	19
15.1.5-8	22		
15.1.5-9	28	15.2.7-1	15
15.1.5-10	26	15.2.7-2	18
15.1.5-10a	17	15.2.7-3	28
15.1.5-11	28	15.2.7-4	15
15.1.5-12	28	15.2.7-5	28
15.1.5-13	28		
		15.2.8-1	19
15.1R-1	28		
		15.2R-1	20
Fig. 15.1.3-1	22		
Fig. 15.1.3-2	22	Fig. 15.2.2-1	18
Fig. 15.1.3-3	22	Fig. 15.2.2-1a	25
Fig. 15.1.3-4	22	Fig. 15.2.2-2	17
Fig. 15.1.3-5	22	Fig. 15.2.2-2a	25
Fig. 15.1.3-6	22	Fig. 15.2.2-3	17
Fig. 15.1.3-7	22	Fig. 15.2.2-3a	25
		Fig. 15.2.2-4	17
Fig. 15.1.5-1	13	Fig. 15.2.2-4a	25
Fig. 15.1.5-2	13	Fig. 15.2.2-5	17
Fig. 15.1.5-3	26	Fig. 15.2.2-5a	25
Fig. 15.1.5-4	26	Fig. 15.2.2-6	18
Fig. 15.1.5-5	26	Fig. 15.2.2-7	15
Fig. 15.1.5-6	26	Fig. 15.2.2-8	15
Fig. 15.1.5-7	26	Fig. 15.2.2-9	15
Fig. 15.1.5-8	26	Fig. 15.2.2-10	17
Fig. 15.1.5-9	26	Fig. 15.2.2-11	15
Fig. 15.1.5-10	26	Fig. 15.2.2-12	17
Fig. 15.1.5-11	26		
Fig. 15.1.5-12 Deleted	22	Fig. 15.2.7-1	18
Fig. 15.1.5-13	26	Fig. 15.2.7-2	13
Fig. 15.1.5-14	26	Fig. 15.2.7-3	13
Fig. 15.1.5-15	28	Fig. 15.2.7-4	13
Fig. 15.1.5-16	28	Fig. 15.2.7-5	13
Fig. 15.1.5-17	28	Fig. 15.2.7-6	13
		Fig. 15.2.7-7	13
Section 15.2 Tab	-	Fig. 15.2.7-8	18
15.2.0-1	14	Fig. 15.2.7-9	13
		Fig. 15.2.7-10	13
15.2.1-1	0	Fig. 15.2.7-11	13
		Fig. 15.2.7-12	13
15.2.2-1	27	Fig. 15.2.7-13	13
15.2.2-2	26	Fig. 15.2.7-14	13
15.2.2-3	27		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 15.3 Tab	-	15.4.5-1	3
15.3.1-1	14		
15.3.1-2	26	15.4.6-1	28
15.3.1-3	28	15.4.6-2	26
15.3.1-4	28	15.4.6-2a	24
		15.4.6-3	22
15.3.2-1	15E2	15.4.6-4	28
15.3.2-2	28		
15.3.2-3	28	15.4.7-1	25
15.3.2-3a	28	15.4.7-2	28
15.3.2-4	28	15.4.7-2a	28
15.3.3-1	19	15.4.8-1	22
		15.4.8-2	20
15.3R-1	20	15.4.8-3	28
		15.4.8-3a	28
Fig. 15.3.1-1	18	15.4.8-3b	28
Fig. 15.3.1-2	13	15.4.8-4	28
Fig. 15.3.1-3	13		
Fig. 15.3.1-4	13	15.4.9-1	3
Fig. 15.3.1-5	13		
Fig. 15.3.1-6	17	15.4R-1	28
Fig. 15.3.2-1	18	Fig. 15.4.1-1	28
Fig. 15.3.2-2	15	Fig. 15.4.1-2	18
Fig. 15.3.2-3	15	Fig. 15.4.1-3	16
Fig. 15.3.2-4	15	Fig. 15.4.1-4	17
Fig. 15.3.2-5 Deleted	15		
Fig. 15.3.2-6	17	Fig. 15.4.2-1	22
		Fig. 15.4.2-2	22
Section 15.4 Tab	-	Fig. 15.4.2-2a	22
15.4.1-1	20	Fig. 15.4.2-3	28
15.4.1-2	27	Fig. 15.4.2-4	28
15.4.1-2a	28	Fig. 15.4.2-5	28
15.4.1-3	28	Fig. 15.4.2-6	28
		Fig. 15.4.2-7	28
15.4.2-1	19	Fig. 15.4.2-8	28
15.4.2-2	26	Fig. 15.4.2-9	28
15.4.2-3	28		
15.4.2-4	28	Fig. 15.4.3-1	22
		Fig. 15.4.3-2	22
15.4.3-1	22	Fig. 15.4.3-3 Deleted	17
15.4.3-2	22	Fig. 15.4.3-4	22
15.4.3-3	28	Fig. 15.4.3-5	22
15.4.3-3a	28	Fig. 15.4.3-6	22
15.4.3-4	28	Fig. 15.4.3-7	22
15.4.3-5	28	Fig. 15.4.3-8	22
15.4.3-6	28	Fig. 15.4.3-9	22
15.4.3-6a	22	Fig. 15.4.3-10	22
15.4.3-7	28	Fig. 15.4.3-11	22
		Fig. 15.4.3-12	22
15.4.4-1	3		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Fig. 15.4.8-1	18		
Fig. 15.4.8-2	17	Fig. 15.6.1-1	18
Fig. 15.4.8-3	17	Fig. 15.6.1-2	13
Fig. 15.4.8-4	17	Fig. 15.6.1-3	13
		Fig. 15.6.1-4	13
Section 15.5 Tab	-		
15.5.1-1	28	Fig. 15.6.2-1 Deleted	12
		Fig. 15.6.2-2 Deleted	13
15.5.2-1	19	Fig. 15.6.2-3	7
		Fig. 15.6.2-4	24
Section 15.6 Tab	-	Fig. 15.6.2-5	24
15.6.1-1	25	Fig. 15.6.2-6	24
15.6.1-2	18	Fig. 15.6.2-7	24
15.6.1-2a	28	Fig. 15.6.2-8	24
15.6.1-3	28	Fig. 15.6.2-9	24
		Fig. 15.6.2-10	24
15.6.2-1	24		
15.6.2-2	26	Fig. 15.6.5-1 Deleted	22
15.6.2-3	24	Fig. 15.6.5-2 Deleted	22
15.6.2-3a	24	Fig. 15.6.5-3	24
15.6.2-4	26	Fig. 15.6.5-4	24
15.6.2-4a	18	Fig. 15.6.5-5	24
15.6.2-5	26	Fig. 15.6.5-6	24
15.6.2-6	24	Fig. 15.6.5-7	24
15.6.2-7	27	Fig. 15.6.5-8	24
15.6.2-8	24	Fig. 15.6.5-9	24
		Fig. 15.6.5-10	24
15.6.3-1	20	Fig. 15.6.5-11 Deleted	17
15.6.3-2	20	Fig. 15.6.5-12 Deleted	17
15.6.3-3	25	Fig. 15.6.5-13 Deleted	17
15.6.3-4	20	Fig. 15.6.5-14 Deleted	22
		Fig. 15.6.5-15 Deleted	22
15.6.4-1	0	Fig. 15.6.5-16	24
		Fig. 15.6.5-17	24
15.6.5-1	26	Fig. 15.6.5-18 Deleted	17
15.6.5-2	24	Fig. 15.6.5-19 Deleted	17
15.6.5-3	22	Fig. 15.6.5-20	24
15.6.5-3a	26	Fig. 15.6.5-21	24
15.6.5-4	22	Fig. 15.6.5-22	24
15.6.5-5	21	Fig. 15.6.5-23 Deleted	22
15.6.5-6	28	Fig. 15.6.5-24 Deleted	22
15.6.5-7	21	Fig. 15.6.5-25	24
15.6.5-8	28	Fig. 15.6.5-26	24
15.6.5-9	21	Fig. 15.6.5-27	24
15.6.5-10	26	Fig. 15.6.5-28 through	13
15.6.5-10a	28	Fig. 15.6.5-32 Deleted	
15.6.5-11	24	Fig. 15.6.5-33	24
15.6.5-12	26		
15.6.5-13	28		
15.6.5-14	22		
15.6R-1	28		
15.6R-2	22		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Section 15.7 Tab	-	17.1.2-2	27
15.7.1-1	20	17.1.2-3	27
		17.1.2-4	27
15.7.2-1	23	17.1.2-5	27
15.7.2-2	23	17.1.2-6	27
15.7.2-3	23	17.1.2-7	27
15.7.3-1	23	17.1.3-1	27
		17.1.3-2	27
15.7.4-1	17	17.1.3-3	27
15.7.4-2	17	17.1.3-4	27
15.7.4-3	25	17.1.3-5	27
15.7.4-4	28	17.1.3-6	27
15.7.4-4a	28	17.1.3-7	27
15.7.4-5	28	17.1.3-8	27
15.7.4-5a	28	17.1.3-9	27
15.7.4-6	28	17.1.3-10	27
15.7.4-6a	28	17.1.3-11	27
15.7.4-7	28	17.1.3-12	27
15.7.4-8	28	17.1.3-13	27
		17.1.3-14	27
15.7.5-1	16	17.1.3-15	27
15.7.5-1a	16	17.1.4-1	27
15.7.5-2	20	17.1.4-2	27
15.7.5-3	20	17.1.4-3	27
15.7.5-4	20	17.1.4-4	27
15.7.5-5	14	17.1.4-5	27
15.7.5-6	16	17.1.4-6	27
		17.1.4-7	27
15.7.6-1	19		
		Fig. 17.1.3-1	27
15.7R-1	28	Fig. 17.1.3-2	27
Chapter 16 Tab	-	Fig. 17.1.4-1	27
Chapter 16 Cover Sheet	-	Fig. 17.1.4-2	27
16-i	0	Fig. 17.1.4-3	27
16.0.0-1	0	Section 17.2 Tab	-
		17.2.0-1 Deletion Sheet	13
16.0R-1	0		
		Section 17.3 Tab	-
Chapter 17 Tab	-	17.3.1-1	27
Chapter 17 Cover Sheet	-		
17-i	27		
17-ii	27		
17-iii	27		
17-iv	27		
Section 17.1 Tab	-		
17.1.0-1	27		
17.1.1-1	27		
17.1.2-1	27		

HBR 2  
UPDATED FSAR

<u>Page</u>	<u>Amendment/Revision</u>	<u>Page</u>	<u>Amendment/Revision</u>
Chapter 18 Tab	-		
18-i	23		
18-ii	23		
18-iii	28		
18-iv	23		
Section 18.1 Tab			
18.1-1	26		
18.1-2	23		
18.1-3	23		
18.1-4	26		
18.1-5	25		
18.1-6	23		
18.1-7	23		
18.1-8	27		
18.1-9	23		
18.1-10	28		
18.1-11	28		
18.1-12	28		
18.1-13	28		
18.1-14	28		
18.1-15	28		
18.1-16	28		
18.1R-1	23		
Section 18.2 Tab			
18.2-1	28		
18.2-2	27		
18.2-3	23		
18.2-4	26		
18.2-5	23		
18.2-6	23		
18.2-7	23		
18.2R-1	23		

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
1.0	<u>INTRODUCTION AND GENERAL DESCRIPTION OF PLANT</u>	1.1.0-1
1.1	<u>INTRODUCTION</u>	1.1.0-1
1.2	<u>GENERAL PLANT DESCRIPTION</u>	1.2.1-1
1.2.1	SITE AND ENVIRONMENT	1.2.1-1
1.2.2	SUMMARY PLANT DESCRIPTION	1.2.2-1
1.3	<u>COMPARISON TABLES</u>	1.3.1-1
1.4	<u>IDENTIFICATION OF CONTRACTORS</u>	1.4.0-1
1.5	<u>REQUIREMENTS FOR FURTHER TECHNICAL INFORMATION</u>	1.5.1-1
1.5.1	DELETED BY AMENDMENT NO. 11	
1.5.2	SAFETY INJECTION SYSTEM DESIGN	1.5.2-1
1.5.3	SYSTEMS FOR REACTOR CONTROL DURING XENON INSTABILITIES	1.5.3-1
1.5.4	CONTAINMENT SPRAY ADDITIVE FOR IODINE REMOVAL	1.5.4-1
1.5.5	BLOWDOWN CAPABILITY OF REACTOR INTERNALS	1.5.5-1
1.5.6	PROGRAMS CONDUCTED DURING OPERATION	1.5.6-1
1.6	<u>MATERIAL INCORPORATED BY REFERENCE</u>	1.6.0-1
1.7	<u>DRAWINGS AND OTHER DETAILED INFORMATION</u>	1.7.0-1
1.8	<u>CONFORMANCE TO NRC REGULATORY GUIDES</u>	1.8.0-1
2.0	<u>SITE CHARACTERISTICS</u>	2.0-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
2.1	<u>GEOGRAPHY AND DEMOGRAPHY</u>	2.1.1-1
2.1.1	SITE LOCATION AND DESCRIPTION	2.1.1-1
2.1.2	EXCLUSION AREA AUTHORITY AND CONTROL	2.1.2-1
2.1.3	POPULATION DISTRIBUTION	2.1.3-1
2.2	<u>NEARBY INDUSTRIAL, TRANSPORTATIONS, AND MILITARY FACILITIES</u>	2.2.1-1
2.2.1	LOCATIONS AND ROUTES	2.2.1-1
2.2.2	DESCRIPTIONS	2.2.2-1
2.3	<u>METEOROLOGY</u>	2.3.1-1
2.3.1	REGIONAL CLIMATOLOGY	2.3.1-1
2.3.2	LOCAL METEOROLOGY	2.3.2-1
2.3.3	ONSITE METEOROLOGICAL MEASUREMENTS PROGRAM	2.3.3-1
2.3.4	DIFFUSION ESTIMATES	2.3.4-1
2.4	<u>HYDROLOGIC ENGINEERING</u>	2.4.1-1
2.4.1	HYDROLOGIC DESCRIPTION	2.4.1-1
2.4.2	FLOODS	2.4.2-1
2.4.3	PROBABLE MAXIMUM FLOOD (PMF) ON STREAMS AND RIVERS	2.4.3-1
2.4.4	COOLING WATER CANALS AND RESERVOIRS	2.4.4-1
2.4.5	LOW WATER CONSIDERATIONS	2.4.5-1
2.4.6	DISPERSION, DILUTION, AND TRAVEL TIMES OF ACCIDENTAL RELEASES OF LIQUID EFFLUENTS IN SURFACE WATER	2.4.6-1
2.4.7	GROUND WATER	2.4.7-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
2.5	<u>GEOLOGY, SEISMOLOGY, AND GEOTECHNICAL ENGINEERING</u>	2.5.1-1
2.5.1	BASIC GEOLOGIC AND SEISMIC INFORMATION	2.5.1-1
2.5.2	VIBRATORY GROUND MOTIONS	2.5.2-1
2.5.3	SURFACE FAULTING	2.5.3-1
2.5.4	STABILITY OF SUBSURFACE MATERIALS AND FOUNDATIONS	2.5.4-1
2.5.5	STABILITY OF SLOPES	2.5.5-1
2.5A	<u>APPENDIX 2.5A - GENERAL GEOLOGY AND SEISMICITY OF SOUTH CAROLINA</u>	Tab 2.5A-1
2.5B	<u>APPENDIX 2.5B - SITE ENVIRONMENTAL STUDIES ADDITIONAL FIELD INVESTIGATION PROPOSED NUCLEAR POWER PLANT HARTSVILLE, SOUTH CAROLINA</u>	Tab 2.5B-1
2.5C	<u>APPENDIX 2.5C - GEOLOGICAL ANALYSIS FOR THE SITE FOR H. B. ROBINSON UNIT NO. 2 NUCLEAR POWER PLANT AT HARTSVILLE, SOUTH CAROLINA</u>	Tab 2.5C-1
2.5D	<u>APPENDIX 2.5D - REPORT ON THE HARTSVILLE SITE EARTHQUAKE HAZARD</u>	Tab 2.5D-1
2.5E	<u>APPENDIX 2.5E - DR. HOUSNER LETTER, JULY 22, 1966, RECOMMENDED EARTHQUAKE DESIGN SPECTRUM</u>	Tab 2.5E-1
3.0	<u>DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND SYSTEMS</u>	3.1.1-1
3.1	<u>CONFORMANCE WITH GENERAL DESIGN CRITERIA</u>	3.1.1-1
3.1.1	INTRODUCTION AND SUMMARY	3.1.1-1
3.1.2	EVALUATION PER GENERAL DESIGN CRITERIA	3.1.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
3.2	<u>CLASSIFICATION OF STRUCTURES, COMPONENTS, AND SYSTEMS</u>	3.2.1-1
3.2.1	SEISMIC CLASSIFICATION	3.2.1-1
3.2.2	SYSTEM QUALITY GROUP CLASSIFICATION	3.2.2-1
3.3	<u>WIND AND TORNADO LOADINGS</u>	3.3.1-1
3.3.1	WIND LOADINGS	3.3.1-1
3.3.2	TORNADO LOADINGS	3.3.2-1
3.4	<u>WATER LEVEL (FLOOD) DESIGN</u>	3.4.0-1
3.5	<u>MISSILE PROTECTION</u>	3.5.0-1
3.5.1	MISSILE SELECTION AND DESCRIPTION	3.5.1-1
3.5.2	STRUCTURES, SYSTEMS AND COMPONENTS TO BE PROTECTED FROM EXTERNALLY GENERATED MISSILES	3.5.2-1
3.6	<u>PROTECTION AGAINST DYNAMIC EFFECTS ASSOCIATED WITH THE POSTULATED RUPTURE OF PIPING</u>	3.6.1-1
3.6.1	POSTULATED PIPING FAILURES IN FLUID SYSTEMS INSIDE CONTAINMENT	3.6.1-1
3.6.2	POSTULATED PIPING FAILURES IN FLUID SYSTEMS OUTSIDE OF CONTAINMENT	3.6.2-1
3.7	<u>SEISMIC DESIGN</u>	3.7.1-1
3.7.1	SEISMIC INPUT	3.7.1-1
3.7.2	SEISMIC SYSTEM ANALYSIS	3.7.2-1
3.7.3	SEISMIC SUBSYSTEM ANALYSIS	3.7.3-1
3.7.4	SEISMIC INSTRUMENTATION	3.7.4-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
3.8	<u>DESIGN OF CATEGORY I STRUCTURES</u>	3.8.1-1
3.8.1	CONCRETE CONTAINMENT	3.8.1-1
3.8.2	STEEL CONTAINMENT	3.8.2-1
3.8.3	CONCRETE AND STRUCTURAL STEEL INTERNAL STRUCTURES OF THE CONCRETE CONTAINMENT	3.8.3-1
3.8.4	OTHER SEISMIC CATEGORY I STRUCTURES	3.8.4-1
3.8.5	FOUNDATIONS	3.8.5-1
3.9	<u>MECHANICAL SYSTEMS AND COMPONENTS</u>	3.9.1-1
3.9.1	SPECIAL TOPICS FOR MECHANICAL SYSTEMS	3.9.1-1
3.9.2	DYNAMIC TESTING AND ANALYSIS	3.9.2-1
3.9.3	AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME) CODE CLASS 1, 2, AND 3 COMPONENTS, COMPONENT SUPPORTS, AND CORE SUPPORT STRUCTURES	3.9.3-1
3.9.4	CONTROL ROD DRIVE SYSTEM (CRDS)	3.9.4-1
3.9.5	REACTOR PRESSURE VESSEL INTERNALS	3.9.5-1
3.9.6	IN-SERVICE TESTING OF PUMPS AND VALVES	3.9.6-1
3.10	<u>SEISMIC QUALIFICATION OF SEISMIC CATEGORY I INSTRUMENTATION AND ELECTRICAL EQUIPMENT</u>	3.10.0-1
3.11	<u>ENVIRONMENTAL DESIGN OF MECHANICAL AND ELECTRICAL EQUIPMENT</u>	3.11.1-1
3.11.0	GENERAL	3.11.1-1
3.11.1	EQUIPMENT IDENTIFICATION AND ENVIRONMENTAL CONDITIONS	3.11.1-2
3.11.2	QUALIFICATION TESTS AND ANALYSIS	3.11.2-1
3.11.3	QUALIFICATION TESTS RESULTS	3.11.3-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
3.11.4	LOSS OF VENTILATION	3.11.4-1
3.11.5	ESTIMATED CHEMICAL AND RADIATION ENVIRONMENT	3.11.5-1
4.0	<u>REACTOR</u>	4.1.1-1
4.1	<u>SUMMARY DESCRIPTION</u>	4.1.1-1
4.1.1	GENERAL DESCRIPTION OF CORE	4.1.1-1
4.1.2	GENERAL DESCRIPTION OF FUEL	4.1.2-1
4.2	<u>FUEL SYSTEM DESIGN</u>	4.2.1-1
4.2.1	DESIGN BASES	4.2.1-1
4.2.2	DESIGN DESCRIPTION	4.2.2-1
4.2.3	MECHANICAL DESIGN EVALUATION	4.2.3-1
4.2.4	TESTING AND INSPECTION PLAN	4.2.4-1
4.3	<u>NUCLEAR DESIGN</u>	4.3.1-1
4.3.1	DESIGN BASIS	4.3.1-1
4.3.2	DESCRIPTION	4.3.2-1
4.3.3	ANALYTICAL METHODS	4.3.3-1
4.4	<u>THERMAL AND HYDRAULIC DESIGN</u>	4.4.1-1
4.4.1	DESIGN BASES	4.4.1-1
4.4.2	DESCRIPTION	4.4.2-1
4.4.3	INSTRUMENTATION REQUIREMENTS	4.4.3-1
4.5	<u>REACTOR MATERIALS</u>	4.5.1-1
4.5.1	CONTROL ROD DRIVE SYSTEM STRUCTURAL MATERIALS	4.5.1-1
4.5.2	REACTOR INTERNALS MATERIALS	4.5.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
4.6	<u>FUNCTIONAL DESIGN OF REACTIVITY CONTROL SYSTEMS</u>	4.6.0-1
5.0	<u>REACTOR COOLANT SYSTEM AND CONNECTED SYSTEMS</u>	5.1.0-1
5.1	<u>SUMMARY DESCRIPTION</u>	5.1.0-1
5.1.1	SCHEMATIC FLOW DIAGRAM	5.1.1-1
5.1.2	PIPING AND INSTRUMENTATION DIAGRAM	5.1.2-1
5.1.3	ELEVATION DRAWING	5.1.3-1
5.2	<u>INTEGRITY OF REACTOR COOLANT PRESSURE BOUNDARY</u>	5.2.1-1
5.2.1	COMPLIANCE WITH CODE	5.2.1-1
5.2.2	OVERPRESSURIZATION PROTECTION	5.2.2-1
5.2.3	REACTOR COOLANT BOUNDARY MATERIALS	5.2.3-1
5.2.4	IN-SERVICE INSPECTION AND TESTING OF REACTOR COOLANT PRESSURE BOUNDARY	5.2.4-1
5.2.5	DETECTION OF LEAKAGE THROUGH REACTOR COOLANT PRESSURE BOUNDARY	5.2.5-1
5.3	<u>REACTOR VESSEL</u>	5.3.0-1
5.3.1	REACTOR VESSEL MATERIALS	5.3.1-1
5.3.2	PRESSURE - TEMPERATURE LIMITS	5.3.2-1
5.4	<u>COMPONENT AND SUBSYSTEM DESIGN</u>	5.4.1-1
5.4.1	REACTOR COOLANT PUMPS	5.4.1-1
5.4.2	STEAM GENERATORS	5.4.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
5.4.3	REACTOR COOLANT PIPING	5.4.3-1
5.4.4	RESIDUAL HEAT REMOVAL SYSTEM	5.4.4-1
5.4.5	MAIN STEAM LINE AND FEEDWATER PIPING	5.4.5-1
5.4.6	PRESSURIZER	5.4.6-1
5.4.7	PRESSURIZER RELIEF DISCHARGE SYSTEM	5.4.7-1
5.4.8	VALVES	5.4.8-1
5.4.9	SAFETY AND RELIEF VALVES	5.4.9-1
5.4.10	REACTOR COOLANT GAS VENT SYSTEM	5.4.10-1
6.0	<u>ENGINEERED SAFETY FEATURES</u>	6.0-1
6.1	<u>ENGINEERED SAFETY FEATURES MATERIALS</u>	6.1.1-1
6.1.1	METALLIC MATERIALS	6.1.1-1
6.1.2	ORGANIC MATERIALS	6.1.2-1
6.2	<u>CONTAINMENT SYSTEMS</u>	6.2.1-1
6.2.1	CONTAINMENT FUNCTIONAL DESIGN	6.2.1-1
6.2.2	CONTAINMENT HEAT REMOVAL SYSTEMS	6.2.2-1
6.2.3	SECONDARY CONTAINMENT FUNCTIONAL DESIGN	6.2.3-1
6.2.4	CONTAINMENT ISOLATION SYSTEM (CIS)	6.2.4-1
6.2.5	COMBUSTIBLE GAS CONTROL IN CONTAINMENT	6.2.5-1
6.2.6	CONTAINMENT LEAKAGE TESTING	6.2.6-1
6.3	<u>EMERGENCY CORE COOLING SYSTEM</u>	6.3.1-1
6.3.1	DESIGN BASES	6.3.1-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
6.3.2	SYSTEM DESIGN	6.3.2-1
6.3.3	PERFORMANCE EVALUATION	6.3.3-1
6.3.4	TESTS AND INSPECTIONS	6.3.4-1
6.3.5	INSTRUMENTATION REQUIREMENTS	6.3.5-1
6.4	<u>HABITABILITY SYSTEM</u>	6.4.1-1
6.4.1	DESIGN BASES	6.4.1-1
6.4.2	SYSTEM DESIGN	6.4.2-1
6.4.3	SYSTEM OPERATIONAL PROCEDURES	6.4.3-1
6.4.4	DESIGN EVALUATIONS	6.4.4-1
6.4.5	TESTING AND INSPECTION	6.4.5-1
6.4.6	INSTRUMENTATION REQUIREMENTS	6.4.6-1
6.5	<u>FISSION PRODUCT REMOVAL AND CONTROL SYSTEMS</u>	6.5.1-1
6.5.1	ENGINEERED SAFETY FEATURE (ESF) FILTER SYSTEMS	6.5.1-1
6.5.2	CONTAINMENT SPRAY SYSTEMS	6.5.2-1
6.5.3	FISSION PRODUCT CONTROL SYSTEMS	6.5.3-1
6.6	<u>IN-SERVICE INSPECTION OF CLASS 2 AND 3 COMPONENTS</u>	6.6.0-1
6.7	<u>MAIN STEAM LINE ISOLATION VALVE LEAKAGE CONTROL SYSTEM (MSIV-LCS)</u>	6.7.0-1
6.8	<u>ISOLATION VALVE SEAL WATER SYSTEM</u>	6.8.1-1
6.8.1	DESIGN BASIS	6.8.1-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
6.8.2	SYSTEM DESIGN	6.8.2-1
6.8.3	DESIGN EVALUATION	6.8.3-1
6.8.4	TESTS AND INSPECTION	6.8.4-1
6.8.5	INSTRUMENTATION REQUIREMENTS	6.8.5-1
6.9	<u>CONTAINMENT PENETRATION PRESSURIZATION SYSTEM</u>	6.9.1-1
6.9.1	DESIGN BASES	6.9.1-1
6.9.2	SYSTEM DESIGN	6.9.2-1
6.9.3	DESIGN EVALUATION	6.9.3-1
6.9.4	INSPECTIONS AND TESTS	6.9.4-1
7.0	<u>INSTRUMENTATION AND CONTROLS</u>	7.1.0-1
7.1	<u>INTRODUCTION</u>	7.1.0-1
7.2	<u>REACTOR TRIP SYSTEM</u>	7.2.1-1
7.2.1	DESCRIPTION	7.2.1-1
7.2.2	ANALYSIS	7.2.2-1
7.3	<u>ENGINEERED SAFETY FEATURE SYSTEMS</u>	7.3.1-1
7.3.1	DESCRIPTION	7.3.1-1
7.3.2	ANALYSIS	7.3.2-1
7.4	<u>SYSTEMS REQUIRED FOR SAFE SHUTDOWN</u>	7.4.1-1
7.4.1	DESCRIPTION	7.4.1-1
7.4.2	ANALYSIS	7.4.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
7.5	<u>SAFETY-RELATED DISPLAY INSTRUMENTATION</u>	7.5.1-1
7.5.1	DESCRIPTION	7.5.1-1
7.5.2	ANALYSIS	7.5.2-1
7.6	<u>ALL OTHER INSTRUMENTATION REQUIRED FOR SAFETY</u>	7.6.1-1
7.6.1	REACTOR OVERPRESSURE PROTECTION	7.6.1-1
7.6.2	CONTAINMENT AIR RECIRCULATION SYSTEM	7.6.2-1
7.7	<u>CONTROL SYSTEMS NOT REQUIRED FOR SAFETY</u>	7.7.1-1
7.7.1	DESCRIPTION	7.7.1-1
7.7.2	ANALYSIS	7.7.2-1
8.0	<u>ELECTRIC POWER</u>	8.1.1-1
8.1	<u>INTRODUCTION</u>	8.1.1-1
8.1.1	NETWORK INTERCONNECTIONS	8.1.1-1
8.1.2	POWER DISTRIBUTION SYSTEM	8.1.2-1
8.1.3	SAFETY LOADS	8.1.3-1
8.2	<u>OFFSITE POWER SYSTEM</u>	8.2.1-1
8.2.1	DESCRIPTION	8.2.1-1
8.2.2	ANALYSIS	8.2.2-1
8.3	<u>ONSITE POWER SYSTEMS</u>	8.3.1-1
8.3.1	AC POWER SYSTEMS	8.3.1-1
8.3.2	DC POWER SYSTEM (125 VOLT)	8.3.2-1
8.3.3	FIRE PROTECTION FOR CABLE SYSTEMS	8.3.3-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
9.0	<u>AUXILIARY SYSTEMS</u>	9.1.1-1
9.1	<u>FUEL STORAGE AND HANDLING</u>	9.1.1-1
9.1.1	NEW FUEL STORAGE	9.1.1-1
9.1.2	SPENT FUEL STORAGE	9.1.2-1
9.1.3	SPENT FUEL POOL COOLING AND CLEANUP SYSTEM	9.1.3-1
9.1.4	FUEL HANDLING SYSTEM	9.1.4-1
9.1.5	CONTROL OF HEAVY LOADS	9.1.5-1
9.2	<u>WATER SYSTEMS</u>	9.2.1-1
9.2.1	SERVICE WATER	9.2.1-1
9.2.2	COMPONENT COOLING SYSTEM	9.2.2-1
9.2.3	PRIMARY AND DEMINERALIZED WATER MAKEUP SYSTEM	9.2.3-1
9.2.4	ULTIMATE HEAT SINK	9.2.4-1
9.2.5	CONDENSATE STORAGE FACILITIES	9.2.5-1
9.3	<u>PROCESS AUXILIARIES</u>	9.3.1-1
9.3.1	STATION AND INSTRUMENT AIR SYSTEMS	9.3.1-1
9.3.2	PROCESS SAMPLING SYSTEM	9.3.2-1
9.3.3	EQUIPMENT AND FLOOR DRAINAGE SYSTEM	9.3.3-1
9.3.4	CHEMICAL AND VOLUME CONTROL SYSTEM	9.3.4-1
9.4	<u>AIR CONDITIONING, HEATING, COOLING, AND VENTILATION SYSTEM</u>	9.4.1-1
9.4.1	SUMMARY DESCRIPTION	9.4.1-1
9.4.2	CONTROL ROOM AIR CONDITIONING SYSTEM	9.4.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
9.4.3	REACTOR CONTAINMENT BUILDING VENTILATION SYSTEM	9.4.3-1
9.4.4	REACTOR AUXILIARY BUILDING VENTILATION SYSTEM	9.4.4-1
9.4.5	FUEL HANDLING BUILDING VENTILATION SYSTEM	9.4.5-1
9.4.6	TURBINE BUILDING VENTILATION SYSTEM	9.4.6-1
9.4.7	RELAY ROOM NO. 2 AND CABLE ROOM NO. 2 VENTILATION SYSTEM	9.4.7-1
9.4.8	ENGINEERED SAFETY FEATURES VENTILATION SYSTEM	9.4.8-1
9.4.9	E&RC BUILDING HOOD EXHAUST SYSTEM	9.4.9-1
9.4.10	RADWASTE FACILITY	9.4.10-1
9.4.11	TECHNICAL SUPPORT CENTER/EMERGENCY OPERATIONS FACILITY VENTILATION SYSTEM	9.4.11-1
9.5	<u>OTHER AUXILIARY SYSTEMS</u>	9.5.1-1
9.5.1	FIRE PROTECTION SYSTEM	9.5.1-1
9.5.2	COMMUNICATION SYSTEMS	9.5.2-1
9.5.3	LIGHTING SYSTEMS	9.5.3-1
10.0	<u>STEAM AND POWER CONVERSION SYSTEM</u>	10.1.0-1
10.1	<u>SUMMARY DESCRIPTION</u>	10.1.0-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
10.2	<u>TURBINE GENERATOR</u>	10.2.1-1
10.2.1	DESIGN BASIS	10.2.1-1
10.2.2	DESCRIPTION	10.2.2-1
10.2.3	TURBINE DISK INTEGRITY	10.2.3-1
10.2.4	EVALUATION	10.2.4-1
10.3	<u>MAIN STEAM SUPPLY STEAM</u>	10.3.1-1
10.3.1	DESIGN BASIS	10.3.1-1
10.3.2	SYSTEM DESCRIPTION	10.3.2-1
10.3.3	EVALUATION	10.3.3-1
10.3.4	INSPECTION AND TESTING REQUIREMENTS	10.3.4-1
10.3.5	WATER CHEMISTRY	10.3.5-1
10.3.6	STEAM AND FEEDWATER SYSTEM MATERIALS	10.3.6-1
10.4	<u>OTHER FEATURES OF THE STEAM AND POWER CONVERSION SYSTEM</u>	10.4.1-1
10.4.1	MAIN CONDENSER	10.4.1-1
10.4.2	MAIN CONDENSER EVACUATION SYSTEM	10.4.2-1
10.4.3	TURBINE GLAND SEALING SYSTEM	10.4.3-1
10.4.4	STEAM DUMP SYSTEM	10.4.4-1
10.4.5	CIRCULATING WATER SYSTEM	10.4.5-1
10.4.6	CONDENSATE AND FEEDWATER SYSTEM	10.4.6-1
10.4.7	STEAM GENERATOR BLOWDOWN AND WET LAYUP SYSTEM	10.4.7-1
10.4.8	AUXILIARY FEEDWATER SYSTEM	10.4.8-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
11.0	<u>RADIOACTIVE WASTE MANAGEMENT</u>	11.1.1-1
11.1	<u>SOURCE TERMS</u>	11.1.1-1
11.1.1	REACTOR COOLANT ACTIVITIES	11.1.1-1
11.1.2	TRITIUM	11.1.2-1
11.1.3	LEAKAGE PREVENTION	11.1.3-1
11.2	<u>LIQUID WASTE MANAGEMENT SYSTEMS</u>	11.2.1-1
11.2.1	DESIGN BASES	11.2.1-1
11.2.2	SYSTEM DESCRIPTION	11.2.2-1
11.2.3	RADIOACTIVE RELEASES	11.2.3-1
11.3	<u>GASEOUS WASTE MANAGEMENT SYSTEMS</u>	11.3.1-1
11.3.1	DESIGN BASIS	11.3.1-1
11.3.2	SYSTEM DESCRIPTION	11.3.2-1
11.3.3	RADIOACTIVE RELEASES	11.3.3-1
11.4	<u>SOLID WASTE PROCESSING SYSTEM</u>	11.4.1-1
11.4.1	DESIGN BASIS	11.4.1-1
11.4.2	SYSTEM DESCRIPTION	11.4.2-1
11.5	<u>PROCESS AND EFFLUENT, RADIOLOGICAL MONITORING AND SAMPLING SYSTEMS</u>	11.5.1-1
11.5.1	DESIGN BASIS	11.5.1-1
11.5.2	SYSTEM DESCRIPTION	11.5.2-1
12.0	<u>RADIATION PROTECTION</u>	12.1.1-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
12.1	<u>ENSURING THAT OCCUPATIONAL RADIATION EXPOSURES ARE AS LOW AS REASONABLY ACHIEVABLE (ALARA)</u>	12.1.1-1
12.1.1	POLICY CONSIDERATIONS	12.1.1-1
12.1.2	DESIGN CONSIDERATIONS	12.1.2-1
12.1.3	OPERATIONAL CONSIDERATIONS	12.1.3-1
12.2	<u>RADIATION SOURCES</u>	12.2.0-1
12.3	<u>RADIATION PROTECTION DESIGN FEATURES</u>	12.3.1-1
12.3.1	SHIELDING	12.3.1-1
12.3.2	VENTILATION	12.3.2-1
12.3.3	AREA RADIATION AND AIRBORNE RADIOACTIVITY MONITORING INSTRUMENTATION	12.3.3-1
12.3.4	CRITICALITY MONITORS	12.3.4-1
12.4	<u>DOSE ASSESSMENT</u>	12.4.0-1
12.5	<u>HEALTH PHYSICS PROGRAM</u>	12.5.1-1
12.5.1	ORGANIZATION	12.5.1-1
12.5.2	EQUIPMENT, INSTRUMENTATION, AND FACILITIES	12.5.2-1
12.5.3	PROCEDURES	12.5.3-1
13.0	<u>CONDUCT OF OPERATIONS</u>	13.1.1-1
13.1	<u>ORGANIZATIONAL STRUCTURE OF APPLICANT</u>	13.1.1-1
13.1.1	MANAGEMENT AND TECHNICAL SUPPORT ORGANIZATION	13.1.1-1
13.1.2	OPERATING ORGANIZATION	13.1.2-1
13.1.3	QUALIFICATION OF NUCLEAR PLANT PERSONNEL	13.1.3-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
13.2	<u>TRAINING</u>	13.2.1-1
13.2.1	ACCREDITED TRAINING PROGRAMS	13.2.1-1
13.2.2	GENERAL EMPLOYEE AND FITNESS FOR DUTY TRAINING PROGRAMS	13.2.1-1
13.2.3	OTHER TRAINING PROGRAMS	13.2.1-1
13.3	<u>EMERGENCY PLANNING</u>	13.3.0-1
13.4	<u>REVIEW AND AUDIT</u>	13.4.0-1
13.5	<u>PLANT PROCEDURES</u>	13.5.0-1
13.6	<u>INDUSTRIAL SECURITY</u>	13.6.0-1
14.0	<u>INITIAL TEST PROGRAM</u>	14.1.0-1
14.1	<u>SPECIFIC INFORMATION TO BE INCLUDED IN PRELIMINARY SAFETY ANALYSIS REPORTS</u>	14.1.0-1
14.2	<u>SPECIFIC INFORMATION TO BE INCLUDED IN FINAL SAFETY ANALYSIS REPORT</u>	14.2.1-1
14.2.1	SUMMARY OF TEST PROGRAM AND OBJECTIVES	14.2.1-1
14.2.2	ORGANIZATION AND STAFFING	14.2.2-1
14.2.3	TEST PROCEDURES	14.2.3-1
14.2.4	CONDUCT OF TEST PROGRAM	14.2.4-1
14.2.5	REVIEW, EVALUATION, AND APPROVAL OF TEST RESULTS	14.2.5-1
14.2.6	INDIVIDUAL TEST DESCRIPTIONS	14.2.6-1
14.3	<u>RESULTS OF STARTUP TEST PROGRAMS</u>	14.3.0-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
15.0	<u>ACCIDENT ANALYSIS</u>	15.0.1-1
15.0.1	CLASSIFICATION OF PLANT CONDITIONS	15.0.1-1
15.0.2	PLANT CHARACTERISTICS AND INITIAL CONDITIONS USED IN THE ACCIDENT ANALYSES	15.0.2-1
15.0.3	POWER DISTRIBUTION	15.0.3-1
15.0.4	RANGE OF PLANT OPERATING PARAMETERS AND STATES USED IN THE ANALYSIS	15.0.4-1
15.0.5	REACTIVITY COEFFICIENTS USED IN THE SAFETY ANALYSIS	15.0.5-1
15.0.6	RCCA INSERTION CHARACTERISTICS USED IN THE ANALYSIS	15.0.6-1
15.0.7	TRIP SETPOINTS AND TIME DELAYS	15.0.7-1
15.0.8	COMPONENT CAPACITIES AND SETPOINTS USED IN THE ANALYSIS	15.0.8-1
15.0.9	PLANT SYSTEMS AND COMPONENTS AVAILABLE FOR MITIGATION OF ACCIDENT EFFECTS	15.0.9-1
15.0.10	EFFECTS OF FUEL ASSEMBLY HYDRAULIC DESIGN AND FUEL ROD BOWING	15.0.10-1
15.0.11	SINGLE ACTIVE FAILURES	15.0.11-1
15.1	<u>INCREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM</u>	15.1.0-1
15.1.1	FEEDWATER SYSTEM MALFUNCTIONS THAT RESULT IN A DECREASE IN FEEDWATER TEMPERATURE	15.1.1-1
15.1.2	FEEDWATER SYSTEM MALFUNCTIONS THAT RESULT IN AN INCREASE IN FEEDWATER FLOW	15.1.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
15.1.3	INCREASE IN STEAM FLOW (EXCESS LOAD)	15.1.3-1
15.1.4	INADVERTENT OPENING OF A STEAM GENERATOR RELIEF OR POWER OPERATED RELIEF VALVE	15.1.4-1
15.1.5	MAIN STEAMLINER BREAK EVENT	15.1.5-1
15.2	<u>DECREASE IN HEAT REMOVAL BY THE SECONDARY SYSTEM</u>	15.2.0-1
15.2.1	STEAM PRESSURE REGULATOR MALFUNCTION OR FAILURE THAT RESULTS IN DECREASING STEAM FLOW	15.2.1-1
15.2.2	LOSS OF EXTERNAL ELECTRICAL LOAD	15.2.2-1
15.2.3	TURBINE TRIP	15.2.3-1
15.2.4	LOSS OF CONDENSER VACUUM AND OTHER EVENTS RESULTING IN TURBINE TRIP	15.2.4-1
15.2.5	INADVERTENT CLOSURE OF MAIN STEAM ISOLATION VALVES (MSIVS)	15.2.5-1
15.2.6	LOSS OF NON-EMERGENCY AC POWER TO THE STATION AUXILIARIES	15.2.6-1
15.2.7	LOSS OF NORMAL FEEDWATER FLOW	15.2.7-1
15.2.8	FEEDWATER SYSTEM PIPE BREAK	15.2.8-1
15.3	<u>DECREASE IN REACTOR COOLANT SYSTEM (RCS) FLOW RATE</u>	15.3.1-1
15.3.1	LOSS OF FORCED REACTOR COOLANT FLOW	15.3.1-1
15.3.2	REACTOR COOLANT PUMP SHAFT SEIZURE (LOCKED ROTOR)	15.3.2-1
15.3.3	REACTOR COOLANT PUMP SHAFT BREAK	15.3.3-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
15.4	<u>REACTIVITY AND POWER DISTRIBUTION ANOMALIES</u>	15.4.1-1
15.4.1	UNCONTROLLED ROD CLUSTER CONTROL ASSEMBLY BANK WITHDRAWAL FROM SUBCRITICAL OR LOW POWER	15.4.1-1
15.4.2	UNCONTROLLED CONTROL ROD ASSEMBLY BANK WITHDRAWAL AT POWER	15.4.2-1
15.4.3	CONTROL ROD MISOPERATION (SYSTEM MALFUNCTION OR OPERATOR ERROR)	15.4.3-1
15.4.4	STARTUP OF AN INACTIVE REACTOR COOLANT LOOP AT AN INCORRECT TEMPERATURE	15.4.4-1
15.4.5	RECIRCULATION LOOP AT INCORRECT TEMPERATURE OR FLOW CONTROLLER MALFUNCTION	15.4.5-1
15.4.6	CHEMICAL AND VOLUME CONTROL SYSTEM MALFUNCTION THAT RESULTS IN A DECREASE IN THE BORON CONCENTRATION IN THE REACTOR COOLANT	15.4.6-1
15.4.7	INADVERTENT LOADING OF A FUEL ASSEMBLY INTO THE IMPROPER POSITION	15.4.7-1
15.4.8	SPECTRUM OF ROD CLUSTER CONTROL ASSEMBLY (RCCA) EJECTION ACCIDENTS	15.4.8-1
15.4.9	SPECTRUM OF ROD DROP ACCIDENTS	15.4.9-1
15.5	<u>INCREASES IN REACTOR COOLANT SYSTEM INVENTORY</u>	15.5.1-1
15.5.1	INADVERTENT OPERATION OF EMERGENCY CORE COOLING SYSTEM	15.5.1-1
15.5.2	CVCS MALFUNCTION THAT INCREASES REACTOR COOLANT INVENTORY	15.5.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
15.6	<u>DECREASES IN REACTOR COOLANT SYSTEM INVENTORY</u>	15.6.1-1
15.6.1	INADVERTENT OPENING OF A PRESSURIZER SAFETY OR POWER OPERATED RELIEF VALVE	15.6.1-1
15.6.2	SMALL BREAK LOSS-OF-COOLANT ACCIDENTS	15.6.2-1
15.6.3	STEAM GENERATOR TUBE RUPTURE	15.6.3-1
15.6.4	SPECTRUM OF BOILING WATER REACTOR (BWR) STEAM PIPING FAILURES OUTSIDE CONTAINMENT	15.6.4-1
15.6.5	LOSS-OF-COOLANT ACCIDENTS	15.6.5-1
15.7	<u>RADIOACTIVE RELEASE FROM A SUBSYSTEM OR COMPONENT</u>	15.7.1-1
15.7.1	RADIOACTIVE WASTE GAS SYSTEM LEAK OR FAILURE	15.7.1-1
15.7.2	LIQUID WASTE SYSTEM LEAK OR FAILURE	15.7.2-1
15.7.3	POSTULATED RADIOACTIVITY RELEASES DUE TO LIQUID TANK FAILURE	15.7.3-1
15.7.4	DESIGN BASIS FUEL HANDLING ACCIDENTS	15.7.4-1
15.7.5	SPENT FUEL CASK DROP ACCIDENTS	15.7.5-1
15.7.6	SPENT FUEL PIT WATER LOSS	15.7.6-1
16.0	<u>TECHNICAL SPECIFICATIONS</u>	16.0.0-1
17.0	<u>QUALITY ASSURANCE</u>	17.1.0-1
17.1	<u>QUALITY ASSURANCE DURING DESIGN AND CONSTRUCTION</u>	17.1.0-1
17.1.1	QUALITY ASSURANCE PLANNING [ <b>HISTORICAL</b> ]	17.1.1-1
17.1.2	CAROLINA POWER & LIGHT COMPANY QUALITY ASSURANCE PROGRAM [ <b>HISTORICAL</b> ]	17.1.2-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
17.1.3	WESTINGHOUSE PWR SYSTEMS DIVISION QUALITY ASSURANCE PLAN <b>[HISTORICAL]</b>	17.1.3-1
17.1.4	EBASCO ORGANIZATION AND ADMINISTRATION <b>[HISTORICAL]</b>	17.1.4-1
17.2	DELETED BY REVISION NO. 13	17.2.0-1
17.3	<u>RNP QUALITY ASSURANCE PROGRAM DESCRIPTION</u>	17.3.1-1
18.0	<u>AGING MANAGEMENT PROGRAMS AND ACTIVITIES</u>	18.1-1
18.1	<u>AGING MANAGEMENT PROGRAMS AND ACTIVITIES</u>	18.1-1
18.1.1.1	<u>ASME SECTION XI, SUBSECTION IWB, IWC, AND IWD PROGRAM</u>	
18.1.2	<u>WATER CHEMISTRY PROGRAM</u>	18.1-1
18.1.3	<u>REACTOR HEAD CLOSURE STUDS PROGRAM</u>	18.1-2
18.1.4	<u>STEAM GENERATOR TUBE INTEGRITY PROGRAM</u>	18.1-2
18.1.5	<u>CLOSED-CYCLE COOLING WATER SYSTEM PROGRAM</u>	18.1-2
18.1.6	<u>ASME SECTION XI, SUBSECTION IWF PROGRAM</u>	18.1-2
18.1.7	<u>10 CFR 50, APPENDIX J PROGRAM</u>	18.1-3
18.1.8	<u>FLUX THIMBLE EDDY CURRENT INSPECTION PROGRAM</u>	18.1-3
18.1.9	<u>FIRE PROTECTION PROGRAM</u>	18.1-3
18.1.10	<u>BORIC ACID CORROSION PROGRAM</u>	18.1-4

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

HBR 2  
UPDATED FSAR

GENERAL TABLE OF CONTENTS

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
18.1.11	<u>FLOW-ACCELERATED CORROSION PROGRAM</u>	18.1-4
18.1.12	<u>BOLTING INTEGRITY PROGRAM</u>	18.1-4
18.1.13	<u>OPEN CYCLE COOLING WATER SYSTEM PROGRAM</u>	18.1-5
18.1.14	<u>INSPECTION OF OVERHEAD HEAVY LOAD AND LIGHT LOAD HANDLING</u>	18.1-5
18.1.15	<u>FIRE WATER SYSTEM PROGRAM</u>	18.1-6
18.1.16	<u>BURIED PIPING AND TANKS SURVEILLANCE PROGRAM</u>	18.1-7
18.1.17	<u>ABOVE GROUND CARBON STEEL TANKS PROGRAM</u>	18.1-7
18.1.18	<u>FUEL OIL CHEMISTRY PROGRAM</u>	18.1-7
18.1.19	<u>REACTOR VESSEL SURVEILLANCE PROGRAM</u>	18.1-8
18.1.20	<u>BURIED PIPING AND TANKS INSPECTION PROGRAM</u>	18.1-8
18.1.21	<u>ASME SECTION XI, SUBSECTION IWE PROGRAM</u>	18.1-8
18.1.22	<u>ASME SECTION XI, SUBSECTION IWL PROGRAM</u>	18.1-8
18.1.23	<u>STRUCTURES MONITORING PROGRAM</u>	18.1-10
18.1.24	<u>DAM INSPECTION PROGRAM</u>	18.1-11
18.1.25	<u>SYSTEMS MONITORING PROGRAM</u>	18.1-11
18.1.26	<u>PREVENTIVE MAINTENANCE PROGRAM</u>	18.1-12
18.1.27	<u>METAL FATIGUE OF REACTOR COOLANT PRESSURE BOUNDARY (FATIGUE MONITORING PROGRAM)</u>	18.1-12
18.1.28	<u>NICKEL-ALLOY NOZZLES AND PENETRATIONS PROGRAM</u>	18.1-13
18.1.29	<u>THERMAL AGING EMBRITTLEMENT OF CAST AUSTENITIC STAINLESS STEEL (CASS) PROGRAM</u>	18.1-13
18.1.30	<u>PWR VESSEL INTERNALS PROGRAM</u>	18.1-14

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.

<u>SECTION</u>	<u>TITLE</u>	<u>PAGE</u>
18.1.31	<u>ONE-TIME INSPECTION PROGRAM</u>	18.1-14
18.1.32	<u>SELECTIVE LEACHING OF MATERIALS PROGRAM</u>	18.1-15
18.1.33	<u>NON-EQ INSULATED CABLES AND CONNECTIONS PROGRAM</u>	18.1-15
18.1.34	<u>AGING MANAGEMENT PROGRAM FOR NON-EQ ELECTRICAL CABLES USED IN INSTRUMENTATION CIRCUITS</u>	18.1-15
18.1.35	<u>AGING MANAGEMENT FOR NEUTRON FLUX INSTRUMENTATION CIRCUITS</u>	18.1-16
18.1.36	<u>FUSE HOLDER PROGRAM</u>	18.1-16
18.1.37	<u>AGING MANAGEMENT PROGRAM FOR BUS DUCTS</u>	18.1-16
18.1.38	<u>ENVIRONMENTAL QUALIFICATION (EQ) OF ELECTRICAL COMPONENTS</u>	18.1-16
18.2	<u>EVALUATION OF TIME LIMITED AGING ANALYSES</u>	18.2-1
18.2.1	<u>REACTOR VESSEL NEUTRON EMBRITTLEMENT</u>	18.2-1
18.2.2	<u>METAL FATIGUE</u>	18.2-1
18.2.3	<u>CRANE FATIGUE</u>	18.2-4
18.2.4	<u>ENVIRONMENTAL QUALIFICATION</u>	18.2-5
18.2.5	<u>CONTAINMENT TENDON LOSS OF PRESTRESS</u>	18.2-5
18.2.6	<u>THERMAL AGING EMBRITTLEMENT</u>	18.2-6
18.2.7	<u>FRACTURE MECHANICS ANALYSIS FOR REACTOR COOLANT PUMP</u>	18.2-6
18.2.8	<u>FOUNDATION PILE CORROSION</u>	18.2-6
18.2.9	<u>ELIMINATION OF CONTAINMENT PENETRATION COOLERS</u>	18.2-7
18.2.10	<u>AGING OF BORAFLEX IN SPENT FUEL POOL</u>	18.2-7
References		18.2R-1

On April 29, 2013, the name Carolina Power and Light Company (CP&L) was changed to Duke Energy Progress, Inc. (DEP). On September 13, 2016, the name Duke Energy Progress, Inc. was changed to Duke Energy Progress, LLC.