US-APWR DCD Revision 3
Tracking Report

December 2011

Revision History

Revision	Page	Description
0	All	Including the following information; 1. RAI responses that were submitted through July 14, 2011 2. Additional list of Technical Reports in Section 1.6 3. Tier 1 changes that were accepted by the NRC 4. Amended RAI responses regarding Section 9.2 submitted by MHI Ref. UAP-HF-11217, 11232, 11235, 11237, 11238, 11239, 11240 5. Deletion of track change mark on the DCD Revision 3 notified from the NRC
1	All	Including the following information; 1. RAI responses that were submitted from July 15, 2011 through December 19, 2011. 2. Appropriate sections for each report are reviewed and identified in Section 1.6 3. Deletion of track change mark on the DCD Revision 3 notified from the NRC 4. GSI-191 markups that were submitted by MHI Ref. UAP-HF-11287. “GSI-191” is identified for each item in the column of “Reason for Change”.

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General Description

This report includes a table that identifies the impact of each response to the Request for Additional Information ("RAI") relative to the Design Control Document ("DCD") Revision 3 of US-APWR. This table shows the RAI responses marked in red which have been submitted from July15, 2011 through December 19, 2011 and also should be incorporated into Tracking Report.

This report also includes Change list and Markups for each Chapter in the DCD Revision 3 of US-APWR. Change list identifies the changes impacted by the responses to RAI, and others which have been informed and accepted by the U.S. Nuclear Regulatory Commission ("NRC"). The report also includes the DCD Markups except the Markups which have already been attached to the formally submitted letters such as RAI responses or other specific changes.

Contents

For ease of using this Tracking Report, each chapter is organized in a stand alone fashion that includes a cover sheet and the following relevant information:

- DCD Change List – a list of the changes resulting from RAI responses and other changes. Standard description of list is shown in Table 1.

- DCD Markups – a copy of the DCD pages that have changes except RAI responses or other changes which have already been attached to the formally submitted letters.

Table 1 Change List Standard Description Matrix

<table>
<tr><th>Change due to:</th><th>Change ID No. type:</th><th>“Reason for change” type</th><th>“ Change Summary” type</th></tr>
<tr><td>DCD RAI Response</td><td>DCD_xx.xx-xx
(xx.xx-xx is RAI question number)</td><td>Response to DCD RAI No. xxx-xxxx
MHI Letter
UAP-HF-xxxxx</td><td rowspan="9">[Paragraphs]
-Added <u>second</u> paragraph to <u>reasons(identify xxxxxx/replace xxx)</u>

[Subsections]
-Added Subsection xx.xx.xx
-Deleted Subsection xx.xx.xx
-Revised Subsection for RAI Response
-Added new Subsection xx.xx.xx

[description]
-Added descriptions about xxxxxxx
-Deleted description as follow: xxxxxxxxxxxxxxxxxxxxxxxxx
-Replaced “xxxxx” with “xxxxx”.

[Reference]
-Added/Deleted reference to where.

[STD/CP COL xx.xx(xx)]
-Added CP COL x.x(xx)
-Deleted STD COLx.x(xx)

[Tables/Figures]
-Added Table/Figure xx.xx-xxx
-Deleted Table/Figure xx.xx-xxx
-Revised Table xx.xx-xxx to <u>reasons as discussed in xxxxx</u></td></tr>
<tr><td rowspan="8">MHI identified change

Impact from COL RAI

COL Applicants comment

Industry guides

Technical reasons</td><td>RCOL2_xx.xx-xx
(xx.xx-xx is RAI question number)</td><td>Response to R-COLA RAI No. xxx-xxxx</td></tr>
<tr><td>SCOL3_xx.xx-xx
(xx.xx-xx is RAI question number)</td><td>Response to S-COLA RAI No. xxx-xxxx</td></tr>
<tr><td rowspan="6">MIC-xx-xx-xxxxx
(numbering by ledger)</td><td>Editorial correction</td></tr>
<tr><td>Erratum</td></tr>
<tr><td>Clarification</td></tr>
<tr><td>Commitment to NRC</td></tr>
<tr><td>XXX (i.e DCWG) Meeting (mm/dd/yyyy)</td></tr>
<tr><td>Due to the revision up of industry guides (i.e NEI)</td></tr>
</table>

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
1	Introduction and Interfaces	440	1.2-1	2009/9/8	Y	N	N		-	DCD_1.2-1	4	2
		440	1.2-2	2009/9/8	N	N	N		-	-	N/A	N/A
		440	1.2-3	2009/9/8	N	N	N		-	-	N/A	N/A
		440	1.2-4	2009/9/8	Y	N	N		-	DCD_1.2-4	4	2
		440	1.2-5	2009/9/8	Y	N	N		-	DCD_1.2-5	4	2
		531	01-7	2010/2/3	Y	N	N		-	DCD_01-7	2	3

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
2.0	Site Charactoristics and Site	518	02-1	2010/2/15	Y	Y	N		-	DCD_02-1	2	3
	Parameters	819	02-2	2011/10/11	Y	Y	N		-	DCD_02-2	1	
2.2.3	Evaluation of Potential Accidents											
2.3.1	Regional Climatology	23	02.03.01-1	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-1	-	1
		23	02.03.01-2	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-2	-	1
		23	02.03.01-3	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-3	-	1
		23	02.03.01-4	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-4	-	1
		23	02.03.01-5	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-5	-	1
		23	02.03.01-6	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-6	-	1
		23	02.03.01-7	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-7	-	1
		23	02.03.01-8	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-8	-	1
		23	02.03.01-9	2008/7/18	N	N	N	fin.	-			
				2008/8/12	N	N	N	fin.	-	-	N/A	N/A
		23	02.03.01-10	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-10	-	1
		23	02.03.01-11	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-11	-	1
		23	02.03.01-12	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.01-12	-	1
		23	02.03.01-13	2008/7/18	N	N	N	fin.	-			
				2008/8/12	N	N	N	fin.	-	-	N/A	N/A
		23	02.03.01-14	2008/7/18	N	N	N	fin.	-			
				2008/8/12	N	N	N	fin.	-	-	N/A	N/A
		41	02.03.01-15	2008/9/12	Y	N	N	fin.	-	DCD_02.03.01-15	-	1
		59	02.03.01-16	2008/9/10	Y	N	N	fin.	-	DCD_02.03.01-16	0	2
2.3.2	Local Meteorology	22	02.03.02-1	2008/7/18	Y	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.02-1	-	1
		22	02.03.02-2	2008/7/18	N	N	N	fin.	-			
				2008/8/12	N	N	N	fin.	-	-	N/A	N/A
		547	02.03.01-17	2010/4/14	Y	Y	N			DCD_02.03.01-17	3	3
		547	02.03.01-18	2010/4/14	Y	N	N			DCD_02.03.01-18	3	3
		547	02.03.01-19	2010/4/14	Y	N	N			DCD_02.03.01-19	3	3
2.3.3	Onsite Meteorological	21	02.03.03-1	2008/7/18	Y	N	N	fin.	-			
	Measurement Programs			2008/8/12	Y	N	N	fin.	-	DCD_02.03.03-2	-	1
		21	02.03.03-2	2008/7/18	N	N	N	fin.	-			
				2008/8/12	Y	N	N	fin.	-	DCD_02.03.03-2	-	1
2.3.4	Short-term Dispersion Estimates	42	02.03.04-1	2008/9/10	Y	N	N	fin.	-	DCD_02.03.04-1	0	2
	for Accident Releases			2009/6/4	Y	Y	N		-	DCD_02.03.04-1	-	2
		42	02.03.04-2	2008/9/10	Y	N	N	fin.	-	DCD_02.03.04-2	0	2
				2009/6/4	Y	Y	N		-	DCD_02.03.04-2	3	2
		42	02.03.04-3	2008/9/10	N	N	N	fin.	-	-	N/A	N/A
				2009/6/4	Y	N	N		-	DCD_02.03.04-3	-	2
		42	02.03.04-4	2008/9/10	Y	N	N	fin.	-	DCD_02.03.04-4	0	2
				2009/6/4	Y	N	N		-	-	3	2
		43	02.03.04-5	2008/9/10	Y	Y	N	fin.	-	DCD_02.03.04-5	0	2

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		OI	02.03.04-1	2009/6/4	Y	Y	N		-	DCD_02.03.04-1	-	2
		OI	02.03.04-2	2009/6/4	Y	N	N		-	DCD_02.03.04-2	-	2
		OI	02.03.04-3	2009/6/4	Y	Y	N		-	DCD_02.03.04-3	-	2
		OI	02.03.04-4	2009/6/4	Y	N	N		-	DCD_02.03.04-4	-	2
		OI	02.03.04-5	2009/6/4	Y	Y	N		-	DCD_02.03.04-5	-	2
		OI	02.03.04-6	2009/6/4	Y	Y	N		-	DCD_02.03.04-6	-	2
		OI	02.03.04-7	2009/6/4	Y	N	N		-	DCD_02.03.04-7	-	2
		562	02.03.04-6	2010/4/28	Y	N	N		-	DCD_02.03.04-6	3	3
		562	02.03.04-7	2010/4/28	Y	N	N		-	DCD_02.03.04-7	3	3
		562	02.03.04-8	2010/4/28	Y	N	N		-	DCD_02.03.04-8	3	3
		562	02.03.04-9	2010/4/28	Y	Y	N		-	DCD_02.03.04-9	3	3
				2010/7/14	Y	N	N		-	DCD_02.03.04-9	4	3
2.3.5	Long-Term Atmospheric Dispersion	44	02.03.05.-1	2008/9/10	Y	N	N	fin.	-	DCD_02.03.05-1	0	2
	Estimates for Routine Releases											
2.4	Hydrology	13	02.04-1	2008/7/18	Y	N	N	fin.	-	DCD_0.2.04-1	-	1
		13	02.04-2	2008/7/18	Y	N	N	fin.	-	DCD_0.2.04-2	-	1
2.4.1	Hydrologic Description	14	02.04.01-1	2008/7/18	Y	N	N	fin.	-	DCD_0.2.04.01-1	-	1
		14	02.04.01-2	2008/7/18	Y	N	N	fin.	-	DCD_0.2.04.01-2	-	1
2.4.2	Floods											
2.4.3	Probable Maximum Flood (PMF)											
	on Streams and Rivers											
2.4.4	Potential Dam Failures	15	02.04.04-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.04-1	-	1
		15	02.04.04-2	2008/7/18	Y	N	N	fin.	-	DCD_02.04.04-2	-	1
2.4.5	Probable Maximum Surge	16	02.04.05-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.05-1	-	1
	and Seiche Flooding											
2.4.6	Probable Maximum	17	02.04.06-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.06-1	-	1
	Tsunami Hazards	17	02.04.06-2	2008/7/18	Y	N	N	fin.	-	DCD_02.04.06-2	-	1

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
2.4.7	Ice Effects											
2.4.8	Cooling Water Canals											
	and Reservoirs											
2.4.9	Channel Diversions											
2.4.10	Flooding Protection Requirements											
2.4.11	Low Water Considerations	18	02.04.11-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.11-1	-	1
2.4.12	Groundwater	19	02.04.12-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.12-1	0	2
2.4.13	Accidental Releases	20	02.04.13-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.13-1	-	1
	of Radioactive Liquid Effluents											
	in Ground and Surface Waters											
2.4.14	Technical Specifications	24	02.04.14-1	2008/7/18	Y	N	N	fin.	-	DCD_02.04.14-1	-	1
	and Emergency											
	Operation Requirements											
2.5.1	Technical Specifications											
	and Emergency											
	Operation Requirements											
2.5.2	Vibratory Ground Motion	96	02.05.02-01	2008/12/3	Y	N	N	fin.	-	DCD_02.05.02-1	0	2
2.5.3	Surface Faulting											
2.5.4	Stability of Subsurface Materials	94	02.05.04-01	2008/12/3	Y	N	N	fin.	-	DCD-02.05.04-1	0	2

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
	and Foundations	94	02.05.04-02	2008/12/3	N	N	N	fin.	-	-	N/.A	N/A
		OI	02.05.04-1	2009/6/22	Y	N	N		-	DCD_02.05.04-1	3	2
		OI	02.05.04-01A	2010/2/22	Y	N	N		-	DCD_02.05.04-01A	2	3
2.5.5	Stability fo Slopes	95	02.05.05-01	2008/12/3	Y	N	N	fin.	-	DCD_02.05-1	0	2
		95	02.05.05-02	2008/12/3	N	N	N	fin.	-	-	N/.A	N/A

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
3.2.1	Seismic Classification	287	03.02.01-1	2009/5/8	Y	N	N		-	DCD_03.02.01-1	3	2
		287	03.02.01-2	2009/5/8	Y	N	N		-	DCD_03.02.01-2	3	2
		287	03.02.01-3	2009/5/21	Y	N	N		-	DCD_03.02.01-3	3	2
		287	03.02.01-4	2009/5/21	N	N	N		-	-	N/A	N/A
		287	03.02.01-5	2009/5/8	N	N	N		-	-	N/A	N/A
		287	03.02.01-6	2009/5/21	Y	Y Table 3.2-201	N		-	DCD_03.02.01-6	3	2
		287	03.02.01-7	2009/5/21	Y	N	N		-	DCD_03.02.01-7	3	2
		287	03.02.01-8	2009/5/8	N	N	N		-	-	N/A	N/A
		287	03.02.01-9	2009/5/21	Y	N	N		-	DCD_03.02.01-9	3	2
		287	03.02.01-10	2009/5/21	Y	N	N		-	DCD_03.02.01-10	3	2
		287	03.02.01-11	2009/5/21	N	N	N		-	-	N/A	N/A
		287	03.02.01-12	2009/5/21	N	N	N		-	-	N/A	N/A
		287	03.02.01-13	2009/5/8	N	N	N		-	-	N/A	N/A
		287	03.02.01-14	2009/5/21	Y	N	N		-	DCD_03.02.01-14	3	2
		581	03.02.01-15	2010/7/21	Y	N	N		-	DCD_03.02.01-15	4	3
		581	03.02.01-16	2010/7/21	Y	N	N		-	DCD_03.02.01-16	4	3
		581	03.02.01-17	2010/7/21	N	N	N		-	-	N/A	N/A
		581	03.02.01-18	2010/7/21	N	N	N		-	-	N/A	N/A
		684	03.02.01-19	XX/YY/2011								
		684	03.02.01-20	XX/YY/2011								
		723	03.02.01-21	2011/4/21	Y	N	N		-	DCD_03.02.01-21	TBD	
3.2.2	System Quality Group	276	03.02.02-1	2009/4/24	Y	N	N		-	DCD_03.02.02-1	3	2
	Classification	276	03.02.02-2	2009/4/24	Y	N	N		-	DCD_03.02.02-2	3	2
		276	03.02.02-3	2009/5/8	Y	N	N		-	DCD_03.02.02-3	3	2
		276	03.02.02-4	2009/4/24	Y	N	N		-	DCD_03.02.02-4	3	2
		276	03.02.02-5	2009/5/8	Y	N	N		-	DCD_03.02.02-5	3	2
		276	03.02.02-6	2009/5/8	N	N	N		-	-	N/A	N/A
		276	03.02.02-7	2009/5/8	N	N	N		-	-	N/A	N/A
		276	03.02.02-8	2009/5/8	N	N	N		-	-	N/A	N/A
		276	03.02.02-9	2009/4/24	Y	N	N		-	DCD_03.02.02-9	3	2
									CP RAI 67	CP_03.02.02-3	0	3
		580	03.02.02-10	2010/7/21	Y	Y	N		-	DCD_03.02.02-10	4	3
		580	03.02.02-11	2010/7/21	N	N	N		-	-	N/A	N/A
		580	03.02.02-12	2010/7/21	Y	N	N		-	DCD_03.02.02-12	4	3
		580	03.02.02-13	2010/7/21	N	N	N		-	-	N/A	N/A
		580	03.02.02-14	2010/7/21	N	N	N		-	-	N/A	N/A
		580	03.02.02-15	2010/7/21	N	N	N		-	-	N/A	N/A
		580	03.02.02-16	2010/7/21	N	N	N		-	-	N/A	N/A
		667	03.02.02-17	XX/YY/2010								
		667	03.02.02-18	XX/YY/2010								
		667	03.02.02-19	XX/YY/2010								
		724	03.02.02-20	2011/4/21	Y	N	N		-	DCD_03.02.02-20	0	
3.3.1	Wind Loadings	215	3.3.1-01	2009/4/9	N	N	N		-	-	N/A	N/A
		215	3.3.1-02	2009/4/9	N	N	N		-	-	N/A	N/A
		215	3.3.1-03	2009/4/9	N	N	N		-	-	N/A	N/A
		215	3.3.1-04	2009/4/9	Y	N	N		-	DCD_3.3.1-04	3	2
		215	3.3.1-05	2009/4/9	Y	N	N		-	DCD_3.3.1-05	3	2
		215	3.3.1-06	2009/4/9	N	N	N		-	-	N/A	N/A
3.3.2	Tornado Loadings	218	3.3.2-01	2009/4/9	N	N	N		-	-	N/A	N/A
		218	3.3.2-02	2009/4/9	Y	N	N		-	DCD_3.3.2-02	3	2
		218	3.3.2-03	2009/4/9	Y	N	N		-	DCD_3.3.2-03	3	2
		218	3.3.2-04	2009/4/9	Y	N	N		-	DCD_3.3.2-04	3	2
		817	03.03.02-5	9/26/2011	Y	Y	N		-	DCD_3.3.2-05	1	
3.4.1	Internal Flood Protection for	220	3.4.1-01	2009/4/8	Y	N	N		-			
	Onsite Equipment Failures			2009/5/21	Y	N	N		-	DCD_3.4.1-01	3	2
		220	3.4.1-02	2009/4/23	Y	N	N		-	DCD_3.4.1-02	3	2
		220	3.4.1-03	2009/4/8	Y	N	N		-	DCD_3.4.1-03	3	2

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		220	3.4.1-04	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-04	3	2
		220	3.4.1-05	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-05	3	2
		220	3.4.1-06	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-06	3	2
		220	3.4.1-07	2009/4/23	N	N	N		-	-		
				2009/5/21	N	N	N		-	-	N/A	N/A
		220	3.4.1-08	2009/4/23	N	N	N		-	-		
				2009/5/21	N	N	N		-	-	N/A	N/A
		220	3.4.1-09	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-09	3	2
		220	3.4.1-10	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-10	3	2
		220	3.4.1-11	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-11	3	2
		220	3.4.1-12	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-12	3	2
		220	3.4.1-13	2009/4/23	Y	N	N		-			
				2009/5/21	N	N	N		-	-	N/A	N/A
		220	3.4.1-14	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-14	3	2
		220	3.4.1-15	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-15	3	2
		220	3.4.1-16	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-16	3	2
		220	3.4.1-17	2009/4/23	Y	N	N		-			
				2009/5/21	Y	N	N		-	DCD_3.4.1-17	3	2
		220	3.4.1-18	2009/4/8	Y	N	N		-	DCD_3.4.1-18	3	2
		220	3.4.1-19	2009/4/8	Y	N	N		-	DCD_3.4.1-19	3	2
		220	3.4.1-20	2009/4/8	N	N	N		-	-	N/A	N/A
		579	03.04.01-21	2010/5/27	Y	Y	N		-	DCD_03.04.01-21	4	3
		579	03.04.01-22	2010/5/27	Y	N	N		-	DCD_03.04.01-22	4	3
				2010/12/9	Y	N	N		-		6	3
		579	03.04.01-23	2010/5/27	Y	N	N		-	DCD_03.04.01-23	4	3
		579	03.04.01-24	2010/6/21	Y	N	N		-	DCD_03.04.01-24	4	3
		579	03.04.01-25	2010/5/27	Y	N	N		-	DCD_03.04.01-25	4	3
		579	03.04.01-26	2010/6/21	Y	N	N		-	DCD_03.04.01-26	4	3
		579	03.04.01-27	2010/6/21	Y	N	N		-	DCD_03.04.01-27	4	3
		579	03.04.01-28	2010/6/21	Y	N	N		-	DCD_03.04.01-28	4	3
		842	03.04.01-31	12/19/2011	Y	N	N		-	DCD_03.04.01-31	1	
		842	03.04.01-32	12/19/2011	Y	N	N		-	DCD_03.04.01-32	1	
3.4.2	Analysis Procedures	219	3.4.2-01	2009/4/9	N	N	N		-	-	N/A	N/A
		219	3.4.2-02	2009/4/9	N	N	N		-	-	N/A	N/A
		219	3.4.2-03	2009/4/9	N	N	N		-	-	N/A	N/A
		219	3.4.2-04	2009/4/9	Y	N	N		-	DCD_3.4.2-04	3	2
			03.04.02-1									
			03.04.02-2									
			03.04.02-3									
			03.04.02-4									
		489	03.04.02-5	12/26/2009	N	N	N		-	-	N/A	N/A
		546	03.04.02-6	2010/4/16	N	N	N		-	-	N/A	N/A
3.5.1.1	Internally Generated Missiles	127	3.5.1.1-01	2009/1/28	Y	N	N		-	DCD_3.5.1.1-01	1	2
	(Outside Containment)	127	3.5.1.1-02	2009/1/28	Y	N	N		-	DCD_3.5.1.1-02	1	2
		127	3.5.1.1-03	2009/1/28	Y	N	N		-	DCD_3.5.1.1-03	1	2
		127	3.5.1.1-04	2009/1/28	Y	Y	N		-	DCD_3.5.1.1-04	1	2
		127	3.5.1.1-05	2009/1/28	Y	N	N		-	DCD_3.5.1.1-05	1	2
		359	3.5.1.1.3-S01	2009/6/5	Y	Y	N		-	DCD_3.5.1.1.3-S01	3	2
3.5.1.2	Internally-Generated Missiles	152	3.5.1.2-01	2009/2/4	Y	N	N		-	DCD_3.5.1.2-01	1	2
	(Inside Containment)	152	3.5.1.2-02	2009/2/4	Y	N	N		-	DCD_3.5.1.2-02	1	2

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		152	3.5.1.2-03	2009/2/4	Y	N	N		-	DCD_3.5.1.2-03	1	2
3.5.1.3	Turbine Missiles	323	03.05.01.03-1/3.5.1.3-1	2009/5/20	N	N	N		-	-	N/A	N/A
		323	03.05.01.03-2/3.5.1.3-2	2009/5/20	Y	N	N		-	D_03.05.01.03-2/3.5.1.	3	2
		323	03.05.01.03-3/3.5.1.3-3	2009/5/20	Y	N	N		-	D_03.05.01.03-3/3.5.1.	3	2
		324	03.05.01.03-1/3.5.1.3-1	2009/5/20	Y	N	N		-	D_03.05.01.03-1/3.5.1.	-	2
		324	03.05.01.03-2/3.5.1.3-2	2009/5/20	N	N	N		-	-	N/A	N/A
		324	03.05.01.03-3/3.5.1.3-3	2009/5/20	N	N	N		-	-	N/A	N/A
		324	03.05.01.03-4/3.5.1.3-4	2009/5/20	N	N	N		-	-	N/A	N/A
		324	03.05.01.03-5/3.5.1.3-5	2009/5/20	N	N	N		-	-	N/A	N/A
		324	03.05.01.03-6/3.5.1.3-6	2009/5/20	N	N	N		-	-	N/A	N/A
		324	03.05.01.03-7/3.5.1.3-7	2009/5/20	N	N	N		-	-	N/A	N/A
		323	03.05.01.03-3	2010/5/24	Y	N	N		-	DCD_03.05.01.03-3	4	3
3.5.1.4	Missiles Generated by	154	3.5.1.4-01	2009/2/4	Y	N	N		-	DCD_3.5.1.4-01	1	2
	Tornadoes and Extreme Winds	154	3.5.1.4-02	2009/2/4	N	N	N		-		N/A	N/A
		154	3.5.1.4-03	2009/2/4	Y	N	N		-	DCD_3.5.1.4-03	1	2
		154	3.5.1.4-04	2009/2/4	Y	N	N		-	DCD_3.5.1.4-04	1	2
		154	3.5.1.4-05	2009/2/4	Y	N	N		-	DCD_3.5.1.4-05	1	2
		357	3.5.1.4-02-S01	2009/6/4	Y	Y	N		-	DCD_3.5.1.4-02-S01	3	2
3.5.1.5	Site Proximity Missiles											
	(Except Aircraft)											
3.5.1.6	Aircraft Hazards											
3.5.2	Structures, Systems, and	153	3.5.2-01	2009/2/4	Y	N	N		-	DCD_3.5.2-01	1	2
	Components to be Protected											
	from Externally-Generated											
	Missiles											
3.5.3	Barrier Design Procedures	221	3.5.3-01	2009/4/8	N	N	N		-	-	N/A	N/A
		221	3.5.3-02	2009/4/8	Y	N	N		-	DCD-3.5.3-02	3	2
		221	3.5.3-03	2009/4/8	Y	N	N		-	DCD-3.5.3-03	3	2
		221	3.5.3-04	2009/4/8	Y	N	N		-	DCD-3.5.3-04	3	2
		221	3.5.3-05	2009/4/8	N	N	N		-	-	N/A	N/A
		221	3.5.3-06	2009/4/8	N	N	N		-	-	N/A	N/A
		482	03.05.03-7	2009/12/9	N	N	N		-	-	N/A	N/A
		482	03.05.03-8	2009/12/9	Y	N	N		-	DCD_03.05.03-8	1	3
		686	03.05.03-9	2011/2/28	Y	N	N		-	DCD_03.05.03-9	TBD	
		758	03.05.03-10	12/09/2011	Y	N	N		-	DCD_03.05.03-10	1	

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3.6.1	Plant Design for Protection	180	3.6.1-1	2009/3/3	Y	N	N		-	DCD_3.6.1-1	2	2
	Against Postulated Piping Failures	180	3.6.1-2	2009/3/3	N	N	N		-	DCD_3.6.1-2	N/A	N/A
	in Fluid Systems	180	3.6.1-3	2009/3/3	N	N	N		-	DCD_3.6.1-3	N/A	N/A
	Outside Containment	180	3.6.1-4	2009/3/3	Y	N	N		-	DCD_3.6.1-4	3	2
		180	3.6.1-5	2009/3/3	Y	N	N		-	DCD_3.6.1-5	3	2
		180	3.6.1-6	2009/3/3	Y	N	N		-	DCD_3.6.1-6	3	2
		795	03.06.01-7	10/26/2011	Y	N	N		-	DCD_3.6.1-7	1	
		795	03.06.01-8	10/26/2011	N	N	N		-	-	N/A	N/A
		795	03.06.01-9	10/26/2011	Y	Y	Y		-	DCD_3.6.1-9	1	
3.6.2	Determination of Rupture Locations	71	03.06.02-1	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
	and Dynamic Effects Associated	71	03.06.02-2	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-2	0	2
	with the Postulated Rupture	71	03.06.02-3	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-3	0	2
	of Piping	71	03.06.02-4	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-5	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-5	0	2
		71	03.06.02-6	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-6	0	2
		71	03.06.02-7	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-7	0	2
		71	03.06.02-8	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-9	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-9	0	2
		71	Intro for 03.06.02-10 thru 15	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-10	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-11	2008/11/7	Y	N	N	fin.	-	DCD_03.06.02-11	0	2
		71	03.06.02-12	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-13	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-14	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-15	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-16	2008/10/7	Y	N	N	fin.	-	DCD_03.06.02-16	0	2
		71	03.06.02-17	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-18	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		71	03.06.02-19	2008/10/7	Y	N	N	fin.	-	-	-	1
		459	03.06.02-20	2009/10/16	Y	N	N		-	DCD_03.06.02-20	-	2
		459	03.06.02-21	2009/10/16	N	N	N		-	-	N\A	N\A
		459	03.06.02-22	2009/10/16	Y	N	N		-	DCD_03.06.02-22	-	2
		459	03.06.02-23	2009/10/16	Y	N	N		-	DCD_03.06.02-23	-	2
		459	03.06.02-24	2009/10/16	Y	N	N		-	DCD_03.06.02-24	-	2
		459	03.06.02-25	2009/10/16	Y	N	N		-	DCD_03.06.02-25	0	3
		459	03.06.02-26	2009/10/16	N	N	N		-	-	N\A	N\A
		459	03.06.02-27	2009/10/16	Y	N	N		-	DCD_03.06.02-27	-	2
		459	03.06.02-28	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-29	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-30	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-31	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-32	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-33	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-34	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-35	2009/12/1	N	N	N		-	-	N\A	N\A
		459	03.06.02-36	2009/10/16	N	N	N		-	-	N\A	N\A

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		459	03.06.02-37	10/16/2009	Y	N	N		-	DCD_03.06.02-37	-	2
		459	03.06.02-38	10/16/2009	Y	N	N		-	DCD_03.06.02-38	-	2
		459	03.06.02-39	2009/12/1	Y	N	N		-	DCD_03.06.02-39	1	3
		636	03.06.02-40	11/24/2010	N	N	N		-	-	N\A	N\A
				12/15/2010	Y	N	N		-	DCD_03.06.02-40	7	3
		636	03.06.02-41	11/24/2010	Y	N	N		-	DCD_03.06.02-41	7	3
				12/15/2010	Y	N	N		-		7	3
		636	03.06.02-42	11/24/2010	Y	N	N		-	DCD_03.06.02-42	7	3
				12/15/2010	Y	N	N		-		7	3
		636	03.06.02-43	11/24/2010	Y	N	N		-	DCD_03.06.02-43	7	3
				12/15/2010	Y	N	N		-		7	3
		636	03.06.02-44	11/24/2010	N	N	N		-	-	N\A	N\A
				12/15/2010	Y	N	N		-	DCD_03.06.02-44	7	3
		636	03.06.02-45	11/24/2010	N	N	N		-	-	N\A	N\A
				12/15/2010	Y	N	N		-	DCD_03.06.02-44	7	3
		636	03.06.02-46	11/24/2010	N	N	N		-	-	N\A	N\A
				12/15/2010	N	N	N		-	-	N\A	N\A
		636	03.06.02-47	11/24/2010	Y	N	N		-	DCD_03.06.02-47	7	3
				12/15/2010	Y	N	N		-	DCD_03.06.02-47	7	3
				11/22/2011	Y	N	N		-	DCD_03.06.02-47	1	
		636	03.06.02-48	11/24/2010	Y	N	N		-	DCD_03.06.02-48	7	3
				12/15/2010	Y	N	N		-		7	3
3.6.3	Leak-Before-Break	210	3.6.3-1	2009/4/9	Y	N	N		-	DCD_3.6.3-1	3	2
	Evaluation Procedures	210	3.6.3-2	2009/4/23	N	N	N		-	-	N/A	N/A
		210	3.6.3-3	2009/4/23	N	N	N		-	-	N/A	N/A
		210	3.6.3-4	2009/4/9	Y	N	N		-	DCD_3.6.3-4	3	2
		210	3.6.3-5	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-6	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-7	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-8	2009/4/9	Y	N	N		-	DCD_3.6.3-8	3	2
		210	3.6.3-9	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-10	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-11	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-12	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-13	2009/4/9	N	N	N		-	-	N/A	N/A
		210	3.6.3-14	2009/4/9	N	N	N		-	-	N/A	N/A
		217	3.6.3-15	2009/3/24	Y	¥ part4	N		-	DCD_3.6.3-15	-	2
		217	3.6.3-16	2009/4/23	Y	¥ part4	N		-	DCD_3.6.3-16	3	2
		415	3.6.3-17	2009/8/3	Y	N	N			DCD_3.6.3-17	4	2
		485	3.6.3-18	2010/1/18	N	N	N		-	-	N/A	N/A
		485	3.6.3-19	2010/1/18	Y	Y	N		-	DCD_3.6.3-19	2	3
		485	3.6.3-20	2010/1/18	N	N	N		-	-	N/A	N/A
		485	3.6.3-21	2010/1/18	Y	N	N		-	DCD_3.6.3-21	2	3
		485	3.6.3-22	2010/1/18	N	N	N		-	-	N/A	N/A
		485	3.6.3-23	2010/1/18	N	N	N		-	-	N/A	N/A
		485	3.6.3-24	2010/1/18	Y	N	N		-	DCD_3.6.3-24	2	3
		485	3.6.3-25	2010/1/18	N	N	N		-	-	N/A	N/A
		849	03.06.03-26	2011/11/21	N	N	N		-	-	N/A	N/A
3.7.1	Seismic Design Parameters	211	3.7.1-1	2009/3/25	N	N	N		-	-	N/A	N/A
		211	3.7.1-2	2009/3/25	N	N	N		-	-	N/A	N/A
		211	3.7.1-3	2009/4/23	N	N	N		-	-	N/A	N/A
		211	3.7.1-4	2009/3/25	Y	N	N		-	DCD_3.7.1-4	2	2
		211	3.7.1-5	2009/4/23	Y	N	N		-	DCD_3.7.1-5	3	2
		211	3.7.1-6	2009/4/23	N	N	N		-	-	N/A	N/A
		211	3.7.1-7	2009/4/23	N	N	N		-	-	N/A	N/A
		494	03.07.01-2	2010/1/29	N	N	N		-	-	N/A	N/A
		494	03.07.01-3	2010/1/29	N	N	N		-	-	N/A	N/A
		494	03.07.01-4	2010/1/29	Y	Y	N		-	DCD_03.07.01-4	2	3
		602	03.07.01-5	2010/7/27	N	N	N		-	-	N/A	N/A
		643	03.07.01-6	XX/YY/2010								

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		643	03.07.01-7	XX/YY/2010								
		643	03.07.01-8	XX/YY/2010								
		643	03.07.01-9	XX/YY/2010								
		643	03.07.01-10	XX/YY/2010								
		643	03.07.01-6	2010/11/11	Y	Y	N		-	DCD_03.07.01-12	6	3
		643	03.07.01-7	2010/11/11	N	N	N		-	-	N/A	N/A
		643	03.07.01-8	2010/11/11	N	N	N		-	-	N/A	N/A
		643	03.07.01-9	2010/11/11	N	N	N		-	-	N/A	N/A
		643	03.07.01-10	2010/11/11	N	N	N		-	-	N/A	N/A
		659	03.07.01-11 RAI 3.7.1-17	2010/12/28	N	N	N		-	-	N/A	N/A
				2011/6/23	N	N	N		-	-	N/A	N/A
		659	03.07.01-12 RAI 3.7.1-18	2010/12/28	N	N	N		-	-	N/A	N/A
		709	03.07.01-13 RAI 3.7.1-17	2011/4/19	Y	N	N		-	DCD_03.07.01-13	0	
		798	03.07.01-14	2011/9/7	Y	N	N		-	DCD_03.07.01-14	TBD	
		798	03.07.01-15	2011/9/7	Y	N	N		-	DCD_03.07.01-15	TBD	
		798	03.07.01-16	2011/9/7	N	N	N		-	-	N/A	N/A
		798	03.07.01-17	2011/12/7	N	N	N		-	-	N/A	N/A
		850	03.07.01-19	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-20	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-21	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-22	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-23	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-24	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-25	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-26	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-27	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-28	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-29	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-30	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-31	12/01/2011	N	N	N		-	-	N/A	N/A
		850	03.07.01-32	12/01/2011	N	N	N		-	-	N/A	N/A
3.7.2	Seismic System Analysis	212	3.7.2-1/ RAI 3.7.2-1	2009/5/7	Y	N	N		-	DCD_3.7.2-1	3	2
		212	3.7.2-1/ RAI 3.7.2-2	2009/3/30	Y	N	N		-	DCD_3.7.2-2	2	2
		212	3.7.2-1/ RAI 3.7.2-3	2009/5/7	Y	N	N		-	DCD_3.7.2-3	6	3
		212	3.7.2-1/ RAI 3.7.2-4	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-5	2009/5/7	Y	N	N		-	DCD_3.7.2-5	3	2
		212	3.7.2-1/ RAI 3.7.2-6	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-7	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-8	2009/3/30	Y	N	N		-	DCD_3.7.2-8	-	2
		212	3.7.2-1/ RAI 3.7.2-9	2009/3/30	Y	N	N		-	DCD_3.7.2-9	2	2
		212	3.7.2-1/ RAI 3.7.2-10	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-11	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-12	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-13	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-14	2009/3/30	N	N	N		-	-	N/A	N/A
		212	3.7.2-1/ RAI 3.7.2-15	2009/5/7	Y	N	N		-	DCD_3.7.2-15	-	2
		212	3.7.2-1/ RAI 3.7.2-16	2009/3/30	N	N	N		-	-	N/A	N/A
		495	03.07.02-2	2010/2/2	N	N	N		-	-	N/A	N/A
		495	03.07.02-3A	2010/2/2	N	N	N		-	-	N/A	N/A
		495	03.07.02-4	2010/2/2	Y	N	N		-	DCD_03.07.02-4	TBD	
		495	03.07.02-5	2010/2/2	Y	N	N		-	DCD_03.07.02-5	2	3
		542	03.07.02-6	2010/3/30	N	N	N		-	-	N/A	N/A
		542	03.07.02-7	2010/3/30	N	N	N		-	-	N/A	N/A
		542	03.07.02-8	2010/3/30	N	N	N		-	-	N/A	N/A
				2011/6/30	Y	N	Y		-	DCD_03.07.02-35	0	
		603	03.07.02-9	2010/7/27	N	N	N		-	-	N/A	N/A
		603	03.07.02-10	2010/8/30	N	N	N		-	-	N/A	N/A
		625	03.07.02-11/RAI 3.7.2-38	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-12/RAI 3.7.2-39	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-13/RAI 3.7.2-40	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-14/RAI 3.7.2-41	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-15/RAI 3.7.2-42	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-16/RAI 3.7.2-43	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-17/RAI 3.7.2-44	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-18/RAI 3.7.2-45	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-19/RAI 3.7.2-46	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-20/RAI 3.7.2-47	2010/11/4	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		625	03.07.02-21/RAI 3.7.2-48	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-22/RAI 3.7.2-49	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-23/RAI 3.7.2-50	2010/11/4	N	N	N		-	-	N/A	N/A
		625	03.07.02-24/RAI 3.7.2-51	2010/11/4	N	N	N		-	-	N/A	N/A
		212	03.07.02-17	2009/5/7	N	N	N		-	-	N/A	N/A
		212	03.07.02-18	2009/5/7	N	N	N		-	-	N/A	N/A
		212	03.07.02-19	2009/5/7	N	N	N		-	-	N/A	N/A
		212	03.07.02-20	2009/5/7	Y	N	N		-	-	3	2
		212	03.07.02-21	2009/3/30	N	N	N		-	-	N/A	N/A
		212	03.07.02-22	2009/3/30	Y	N	N		-	-	2	2
		212	03.07.02-23	2009/3/30	N	N	N		-	-	N/A	N/A
		212	03.07.02-24	2009/5/7	Y	N	N		-	-	3	2
		212	03.07.02-25	2009/3/30	N	N	N		-	-	N/A	N/A
		212	03.07.02-26	2009/3/30	Y	N	N		-	-	2	2
		212	03.07.02-27	2009/5/7	Y	N	N		-	-	3	2
		212	03.07.02-28	2009/3/30	Y	N	N		-	-	2	2
		660	03.07.02-25 /RAI 3.7.2-52	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-26 /RAI 3.7.2-53	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-27 /RAI 3.7.2-54	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-28 /RAI 3.7.2-55	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-29 /RAI 3.7.2-56	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-30 /RAI 3.7.2-57	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-31 /RAI 3.7.2-58	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-32 /RAI 3.7.2-59	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-33 /RAI 3.7.2-60	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-34 /RAI 3.7.2-61	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-35 /RAI 3.7.2-62	2010/12/28	N	N	N		-	-	N/A	N/A
		660	03.07.02-36 /RAI 3.7.2-63	2010/12/28	Y	N	N			DCD_03.07.02-63	7	3
		660	03.07.02-37 /RAI 3.7.2-64	2010/12/28	N	N	N		-		N/A	N/A
		660	03.07.02-38 /RAI 3.7.2-65	2010/12/28	Y	N	N			DCD_03.07.02-65	7	3
		660	09.07.02-39/RAI 3.7.2-68	2010/12/28	N	N	N		-	-	N/A	N/A
		766	03.07.02-40	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/116	N	N	N		-	-	N/A	N/A
		766	03.07.02-41	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.02-42	2011/11/116	N	N	N		-	-	N/A	N/A
		766	03.07.02-43	2011/11/116	N	N	N		-	-	N/A	N/A
		766	03.07.02-44	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/116	N	N	N		-	-	N/A	N/A
		766	03.07.02-45	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-46	2011/8/1	Y	N	N		-	-	TBD	
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-47	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.02-48	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.03-49	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-50	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.03-51	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-52	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-53	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.02-54	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-55	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-56	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.03-57	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-58	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.03-59	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-60	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-61	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-62	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.03-63	2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-64	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.02-65	2011/8/1	N	N	N		-	-	N/A	N/A
		766	03.07.02-66	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
		766	03.07.02-67	2011/8/1	N	N	N		-	-	N/A	N/A
		776	03.07.02-68	2011/8/12	N	N	N		-	-	N/A	N/A

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		776	03.07.02-77	2011/8/12	N	N	N		-	-	N/A	N/A
		776	03.07.02-81	8/12/2011	N	N			-	-	N/A	N/A
		776	03.07.02-83	8/12/2011	N	N			-	-	N/A	N/A
			03.07.02-84									
			03.07.02-85									
		800	03.07.02-86	9/7/2011	N	N	N		-	-	N/A	N/A
		800	03.07.02-87	9/7/2011	N	N	N		-	-	N/A	N/A
		800	03.07.02-88	9/7/2011	Y	Y	N		-	DCD_03.07.02-88	TBD	
		800	03.07.02-89	9/7/2011	N	N	N		-	-	N/A	N/A
		800	03.07.02-90	11/01/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-91	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-92	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-93	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-94	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-95	11/22/2011	Y	N	N		-	DCD_03.07.02-95	TBD	
		810	03.07.02-96	11/22/2011	Y	N	N		-	DCD_03.07.02-96	TBD	
		810	03.07.02-97	2011/9/22	Y	N	N		-	DCD_03.07.02-97	TBD	
		810	03.07.02-98	11/22/2011	Y	N	N		-	DCD_03.07.02-98	TBD	
		810	03.07.02-99	2011/9/22	N	N	N		-	-	N/A	N/A
		810	03.07.02-100	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-101	11/22/2011	Y	N	N		-	DCD_03.07.02-101	TBD	
		810	03.07.02-102	2011/9/22	Y	Y	Y		-	DCD_03.07.02-102	TBD	
		810	03.07.02-103	11/22/2011	Y	N	N		-	DCD_03.07.02-103	TBD	
		810	03.07.02-104	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-105	11/22/2011	N	N	N		-	-	N/A	N/A
		810	03.07.02-106	2011/9/22	Y	N	N		-	DCD_03.07.02-106	TBD	
		810	03.07.02-107	2011/9/22	Y	Y	Y		-	DCD_03.07.02-107	TBD	
			03.07.02-108-1	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-2	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-3	2011/11/30	Y	N	N		-	DCD_03.07.02-108	TBD	
			03.07.02-108-4	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-5	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-6	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-7	2011/11/30	N	N	N		-	-	N/A	N/A
		810	03.07.02-108-8	2011/11/30	Y	N	N		-	DCD_03.07.02-108	TBD	
			03.07.02-108-9	2011/11/30	Y	N	N		-	DCD_03.07.02-108	TBD	
			03.07.02-108-10	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-11	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-12	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-13	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-14	2011/11/30	N	N	N		-	-	N/A	N/A
			03.07.02-108-15	2011/11/30	Y	N	N		-	DCD_03.07.02-108	TBD	
		812	03.07.02-109	9/22/2011	N	N	N		-	-	N/A	N/A
3.7.3	Seismic Subsystem Analysis	213	03.07.03-1 RAI 3.7.3-01	2009/3/27	Y	N	N		-	DCD_3.7.3-01	2	2
		213	03.07.03-1 RAI 3.7.3-02	2009/3/27	N	N	N		-	-	N/A	N/A
		213	03.07.03-1 RAI 3.7.3-03	2009/4/24	Y	N	N		-	DCD_3.7.3-03	3	2
		213	03.07.03-1 RAI 3.7.3-04	2009/4/24	Y	N	N		-	DCD_3.7.3-04	3	2
		213	03.07.03-1 RAI 3.7.3-05	2009/3/27	Y	N	N		-	DCD_3.7.3-05	2	2
		213	03.07.03-1 RAI 3.7.3-06	2009/4/24	N	N	N		-	-	N/A	N/A
		213	03.07.03-1 RAI 3.7.3-07	2009/3/27	N	N	N		-	-	N/A	N/A
		213	03.07.03-1 RAI 3.7.3-08	2009/3/27	Y	N	N		-	DCD_3.7.3-08	2	2
		213	03.07.03-1 RAI 3.7.3-09	2009/3/27	Y	N	N		-	DCD_3.7.3-09	2	2
		213	03.07.03-1 RAI 3.7.3-10	2009/3/27	N	N	N		-	-	N/A	N/A
		213	03.07.03-1 RAI 3.7.3-11	2009/3/27	Y	N	N		-	DCD_3.7.3-11	2	2
		213	03.07.03-1 RAI 3.7.3-12	2009/4/24	Y	N	N		-	DCD_3.7.3-12	3	2
		213	03.07.03-1 RAI 3.7.3-13	2009/3/27	Y	N	N		-	DCD_3.7.3-13	-	2
		213	03.07.03-1 RAI 3.7.3-14	2009/4/24	N	N	N		-	-	N/A	N/A
		213	03.07.03-1 RAI 3.7.3-15	2009/4/24	N	N	N		-	-	N/A	N/A
		493	03.07.03-2	2010/1/28	Y	N	N		-	DCD_03.07.03-2	2	3
		493	03.07.03-3	2010/1/28	N	N	N		-	-	N/A	N/A
		493	03.07.03-4	2010/1/28	N	N	N		-	-	N/A	N/A
		493	03.07.03-5	2010/1/28	Y	N	N		-	DCD_03.07.03-5	2	3
		799	03.07.03-6	2011/9/7	Y	N	N		-	DCD_3.7.3-6	TBD	
		799	03.07.03-7	2011/10/7	Y	N	N		-	DCD_03.07.03-7	TBD	
		799	03.07.03-8	2011/9/7	N	N	N		-	-	N/A	N/A
		799	03.07.03-9	2011/9/7	N	N	N		-	-	N/A	N/A
		799	03.07.03-10	2011/10/7	Y	N	N		-	DCD_03.07.03-7	TBD	

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		799	03.07.03-11	2011/10/7	Y	N	N		-	DCD_03.07.03-7	TBD	
		213	3.7.3-09 SUPP	2010/6/30	Y	N	N		-	DCD_3.7.3-09	4	3
3.7.4	Seismic Instrumentation	55	03.07.04-1	2008/9/1	Y	N	N	fin.	-	DCD_03.07.04-1	0	2
		55	03.07.04-2	2008/9/1	Y	N	N	fin.	-	DCD_03.07.04-2	0	2
		538	03.07.04-03	2010/3/30	Y	N	N		-	DCD_03.07.04-03	6	3
		632	03.07.04-04	2010/10/19	Y	Y	N		-	DCD_03.07.04-04	6	3
		-	-	-	-	-	-	-	COL3.7(15) deleted	MAP-03-001	-	2
		-	-	-	-	-	-	-	COL3.7(18) deleted	MAP-03-002	-	2
3.8.1	Concrete Containment	223	3.8.1-1	2009/4/14	Y	N	N		-	DCD_3.8.1-1	3	2
		223	3.8.1-2	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-3	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-4	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-5	2009/4/14	Y	N	N		-	DCD_3.8.1-5	3	2
		223	3.8.1-6	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-7	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-8	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-9	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-10	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-11	2009/4/14	N	N	N		-	-	N/A	N/A
		223	3.8.1-12	2009/4/24	Y	N	N		-	DCD_3.8.1-12	3	2
		223	3.8.1-13	2009/4/24	Y	N	N		-	DCD_3.8.1-13	3	2
		223	3.8.1-14	2009/4/14	Y	N	N		-	DCD_3.8.1-14	3	2
		-	-	-	-	-	-	-	COL3.8(1) deleted	MAP-03-003	-	2
		-	-	-	-	-	-	-	COL3.8(2) deleted	MAP-03-004	0	2, 3
		-	-	-	-	-	-	-	COL3.8(4) deleted	MAP-03-005	-	2
		-	-	-	-	-	-	-	COL3.8(5) deleted	MAP-03-006	-	2
		-	-	-	-	-	-	-	COL3.8(6) deleted	MAP-03-007	-	2
		-	-	-	-	-	-	-	COL3.8(8) deleted	MAP-03-008	-	2
		-	-	-	-	-	-	-	COL3.8(9) deleted	MAP-03-009	-	2
		-	-	-	-	-	-	-	COL3.8(12) deleted	MAP-03-010	-	2
		-	-	-	-	-	-	-	COL3.8(13) deleted	MAP-03-011	-	2
		490	03.08.01-2	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-3	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-4	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-5	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-6	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-7	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-8	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-9	2010/2/4	N	N	N		-	-	N/A	N/A
		490	03.08.01-10	2010/2/4	N	N	N		-	-	N/A	N/A
		661	03.08.01-11	XX/YY/2010								
		661	03.08.01-12	XX/YY/2010								
		661	03.08.01-13	XX/YY/2010								
		768	03.08.01-14	2011/7/25	Y	N	N		-	DCD_03.08.01-14	1	

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		661	03.08.01-24	2010/12/28	Y	N	N		-	DCD_03.08.01-24	7	3
		661	03.08.01-25	2010/12/28	N	N	N		-	-	N/A	N/A
		661	03.08.01-26	2010/12/28	N	N	N		-	-	N/A	N/A
3.8.3	Concrete and Steel	322	3.8.3-1	2009/6/4	N	N	N		-	-	N/A	N/A
	Internal Structures			2009/9/17	N	N	N		-	-	N/A	N/A
	of Steel or Concrete Containments	322	3.8.3-2	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-3	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-4	2009/5/21	Y	N	N		-	DCD_3.8.3-4	3	2
				2009/9/17	Y	N	N		-	DCD_3.8.3-4	3	2
		322	3.8.3-5	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-6	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-7	2009/6/4	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-8	2009/6/4	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-9	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-10	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-11	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-12	2009/5/21	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-13	2009/6/4	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-14	2009/6/4	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		322	3.8.3-15	2009/6/4	N	N	N		-	-	N/A	N/A
				2009/9/17	N	N	N		-	-	N/A	N/A
		491	03.08.03-16	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-17	2010/3/3	N	N	N		-	-	N/A	N/A
				2011/4/12	N	N	N		-	-	N/A	N/A
				2011/7/5	N	N	N		-	-	N/A	N/A
		491	03.08.03-18	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-19	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-20	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-21	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-22	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-23	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-24	2010/3/3	N	N	N		-	-	N/A	N/A
		491	03.08.03-25	2010/3/3	N	N	N		-	-	N/A	N/A
		662	03.08.03-26	2010/12/28	Y	N	N		-	DCD_03.08.03-26	TBD	
		662	03.08.03-27	2010/12/28	N	N	N		-	-	N/A	N/A
		662	03.08.03-28	2010/12/28	N	N	N		-	-	N/A	N/A
		662	03.08.03-29	2010/12/28	N	N	N		-	-	N/A	N/A
		662	03.08.03-30	2010/12/28	N	N	N		-	-	N/A	N/A
		662	03.08.03-31	2010/12/28	N	N	N		-	-	N/A	N/A
		662	03.08.03-32	2010/12/28	Y	N	N		-	DCD_03.08.03-32	TBD	
		676	03.08.03-33	XX/YY/2010								
		676	03.08.03-34	XX/YY/2010								
		676	03.08.03-35	XX/YY/2010								

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3.8.4	Other Seismic Category I Structures	342	3.8.4-1	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-2	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-3	2009/7/3	Y	N	N		-	DCD_3.8.4-3	4	2
		342	3.8.4-4	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-5	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-6	2009/7/3	Y	N	N		-	DCD_3.8.4-6	4	2
		342	3.8.4-7	2009/7/3	Y	N	N		-	DCD_3.8.4-7	4	2
		342	3.8.4-8	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-9	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-10	2009/7/3	Y	N	N		-	DCD_3.8.4-10	4	2
		342	3.8.4-11	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-12	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-13	2009/7/3	Y	N	N		-	DCD_3.8.4-13	4	2
		342	3.8.4-14	2009/7/3	Y	N	N		-	DCD_3.8.4-14	4	2
		342	3.8.4-15	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-16	2009/7/3	Y	N	N		-	DCD_3.8.4-16	4	2
		342	3.8.4-17	2009/7/3	Y	N	N		-	DCD_3.8.4-17	4	2
		342	3.8.4-18	2009/7/3	Y	N	N		-	DCD_3.8.4-18	4	2
		342	3.8.4-19	2009/7/3	Y	N	N		-	DCD_3.8.4-19	4	2
		342	3.8.4-20	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-21	2009/7/3	Y	Y	N		-	DCD_3.8.4-21	4	2
		342	3.8.4-22	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-23	2009/7/3	Y	N	N		-	DCD_3.8.4-23	4	2
		342	3.8.4-24	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-25	2009/7/3	Y	N	N		-	DCD_3.8.4-25	4	2
		342	3.8.4-26	2009/7/3	N	N	N		-	-	N/A	N/A
		342	3.8.4-27	2009/7/3	Y	N	N		-	DCD_3.8.4-27	4	2
		342	3.8.4-28	2009/7/3	Y	N	N		-	DCD_3.8.4-28	4	2
		342	3.8.4-29	2009/7/3	Y	N	N		-	DCD_3.8.4-29	4	2
		342	3.8.4-30	2009/7/3	Y	N	N		-	DCD_3.8.4-30	4	2
		342	3.8.4-31	2009/7/3	Y	N	N		-	DCD_3.8.4-31	4	2
		497	03.08.04-32	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-33	2010/2/19	Y	N	N		-	DCD_03.08.04-33	TBD	
		497	03.08.04-34	2010/2/19	Y	N	N		-	DCD_03.08.04-34	2	3
		497	03.08.04-35	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-36	2010/2/19	Y	N	N		-	DCD_03.08.04-36	2	3
		497	03.08.04-37	2010/2/19	N	N	N		-	-	N/A	N/A
				2011/1/27	Y	N	N		-	DCD_03.08.04-37	TBD	
		497	03.08.04-38	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-39	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-40	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-41	2010/2/19	Y	N	N		-	DCD_03.08.04-41	2	3
		497	03.08.04-42	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-43	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-44	2010/2/19	N	N	N		-	-	N/A	N/A
				2011/2/27	Y	N	N		-	DCD_03.08.04-44	TBD	
		497	03.08.04-45	2010/2/19	N	N	N		-	-	N/A	N/A
		497	03.08.04-46	2010/2/19	Y	N	N		-	DCD_03.08.04-46	2	3
		497	03.08.04-47	2010/2/19	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL3.8(22) revised	MAP-03-012	-	2
		658	03.08.04-48	2010/12/28	N	N	N		-	-	N/A	N/A
		658	03.08.04-49	2010/12/28	N	N	N		-	-	N/A	N/A
		767	03.08.04-50	2011/11/16	N	N	N		-	-	N/A	N/A
		767	03.08.04-51	2011/8/1	N	N	N		-	-	N/A	N/A
				2011/11/16	N	N	N		-	-	N/A	N/A
3.8.5	Foundations	340	03.08.05-01	2009/7/3	Y	N	N		-	DCD_03.08.05-01	4	2
		340	03.08.05-02	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-03	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-04	2009/7/3	Y	N	N		-	DCD_03.08.05-04	4	2
		340	03.08.05-05	2009/7/3	Y	N	N		-	DCD_03.08.05-05	4	2
		340	03.08.05-06	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-07	2009/7/3	N	N	N		-	-	N/A	N/A

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		340	03.08.05-08	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-09	2009/7/3	Y	N	N		-	DCD_03.08.05-09	4	2
		340	03.08.05-10	2009/7/3	Y	N	N		-	DCD_03.08.05-10	4	2
		340	03.08.05-11	2009/7/3	Y	N	N		-	DCD_03.08.05-11	4	2
		340	03.08.05-12	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-13	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-14	2009/7/3	Y	N	N		-	DCD_03.08.05-14	4	2
		340	03.08.05-15	2009/7/3	Y	N	N		-	DCD_03.08.05-15	4	2
		340	03.08.05-16	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-17	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-18	2009/7/3	Y	N	N		-	DCD_03.08.05-18	4	2
		340	03.08.05-19	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-20	2009/7/3	Y	N	N		-	DCD_03.08.05-20	4	2
		340	03.08.05-21	2009/7/3	N	N	N		-	-	N/A	N/A
		340	03.08.05-22	2009/7/3	Y	N	N		-	DCD_03.08.05-22	4	2
		496	03.08.05-23	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-24	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-25	2010/2/4	Y	N	N		-	DCD_03.08.05-25	6	3
		496	03.08.05-26	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-27	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-28	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-29	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-30	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-31	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-32	2010/2/4	Y	N	N		-	DCD_03.08.05-32	2	3
		496	03.08.05-33	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-34	2010/2/4	N	N	N		-	-	N/A	N/A
		496	03.08.05-35	2010/2/4	Y	Y	N		-	DCD_03.08.05-35	6	3
		657	03.08.05-36	2010/12/28	N	N	N		-	-	N/A	N/A
		657	03.08.05-37	2010/12/28	N	N	N		-	-	N/A	N/A
		657	03.08.05-38	2010/12/28	Y	N	N		-	DCD_03.08.05-38	7	3
		657	03.08.05-39	2010/12/28	N	N	N		-	-	N/A	N/A
		657	03.08.05-40	2010/12/28	N	N	N		-	-	N/A	N/A
		657	03.08.05-41	2010/12/28	Y	Y	N		-	DCD_03.08.05-41	7	3
3.9.1	Special Topics for	296	03.09.01-1	2009/5/14	Y	N	N		-	DCD_03.09.01-1	3	2
	Mechanical Components	296	03.09.01-2	2009/5/14	N	N	N		-	-	N/A	N/A
		296	03.09.01-3	2009/5/14	N	N	N		-	-	N/A	N/A
		296	03.09.01-4	2009/5/14	Y	N	N		-	DCD_03.09.01-4	3	2
		296	03.09.01-5	2009/5/14	Y	N	N		-	DCD_03.09.01-5	3	2
		770	03.09.01-6	201/7/26	Y	N	N		-	DCD_03.09.01-6	TBD	
				2011/12/2	Y	N	N		-	DCD_03.09.01-6	1	
		802	03.09.01-7	11/01/2011	Y	N	N		-	DCD_03.09.01-7	1	
3.9.2	Dynamic Testing and Analysis	204	3.9.2-01	2009/3/25	Y	N	N		-	DCD_3.9.2-01	2	2
	of Systems, Structures,	204	3.9.2-02	2009/3/25	Y	N	N		-	DCD_3.9.2-02	2	2
	and Components	204	3.9.2-03	2009/3/25	Y	N	N		-	DCD_3.9.2-03	2	2
		204	3.9.2-04	2009/3/25	Y	N	N		-	DCD_3.9.2-04	2	2
				12/13/2011	N	N	N		-	-	N/A	N/A
		204	3.9.2-05	2009/3/25	Y	N	N		-	DCD_3.9.2-05	2	2
				12/13/2011	N	N	N		-	-	N/A	N/A
		204	3.9.2-06	2009/3/25	N	N	N		-	-	N/A	N/A
		204	3.9.2-07	2009/3/25	Y	N	N		-	DCD_3.9.2-07	2	2
		204	3.9.2-08	2009/3/25	Y	N	N		-	DCD_3.9.2-08	2	2
		204	3.9.2-09	2009/3/25	Y	N	N		-	DCD_3.9.2-09	2	2
		205	3.9.2-10	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-11	2009/4/30	Y	N	N		-	DCD_3.9.2-11	3	2
		205	3.9.2-12	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-13	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-14	2009/4/30	Y	N	N		-	DCD_3.9.2-14	-	2
		205	3.9.2-15	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-16	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-17	2009/4/30	N	N	N		-	-	N/A	N/A
		205	3.9.2-18	2009/4/30	Y	N	N		-	DCD_3.9.2-18	3	2
		272	3.9.2-19	2009/4/9	Y	N	N		-	DCD_3.9.2-19	-	2
		272	3.9.2-20	2009/4/9	N	N	N		-	-	N/A	N/A

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		272	3.9.2-21	2009/4/9	Y	N	N		-	DCD_3.9.2-21	3	2
		272	3.9.2-22	2009/4/9	Y	N	N		-	DCD_3.9.2-22	3	2
		272	3.9.2-23	2009/4/9	Y	N	N		-	DCD_3.9.2-23	3	2
		272	3.9.2-24	2009/4/9	Y	N	N		-	DCD_3.9.2-24	3	2
		272	3.9.2-25	2009/4/9	Y	N	N		-	DCD_3.9.2-25	3	2
		272	3.9.2-26	2009/4/9	N	N	N		-	-	N/A	N/A
		272	3.9.2-27	2009/4/9	Y	N	N		-	DCD_3.9.2-27	3	2
		272	3.9.2-28	2009/4/9	Y	N	N		-	DCD_3.9.2-28	3	2
		272	3.9.2-29	2009/4/9	Y	N	N		-	DCD_3.9.2-29	3	2
		272	3.9.2-30	2009/4/9	N	N	N		-			
				2009/7/29	N	N	N		-	-	N/A	N/A
		272	3.9.2-31	2009/4/9	N	N	N		-	-	N/A	N/A
		272	3.9.2-32	2009/4/9	N	N	N		-	-	N/A	N/A
		272	3.9.2-33	2009/5/13	N	N	N		-	-	N/A	N/A
		272	3.9.2-34	2009/4/9	N	N	N		-	-	N/A	N/A
		272	3.9.2-35	2009/4/9	N	N	N		-	-	N/A	N/A
		214	3.9.2-34	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-35	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-36	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-37	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-38	2009/4/30	Y	N	N		-	DCD_3.9.2-38	3	2
		214	3.9.2-39	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-40	2009/4/30	N	N	N		-	-	N/A	N/A
		214	3.9.2-41	2009/4/30	N	N	N		-	-	N/A	N/A
		206	3.9.2-40	2009/3/27	Y	N	N		-	DCD_3.9.2-40	-	2
		206	3.9.2-41	2009/3/27	N	N	N		-	-	N/A	N/A
		206	3.9.2-42	2009/3/27	Y	N	N		-	DCD_3.9.2-42	2	2
		206	3.9.2-43	2009/3/27	Y	N	N		-	DCD_3.9.2-43	2	2
		207	3.9.2-50	2009/3/27	Y	N	N		-	DCD_3.9.2-50	2	2
		207	3.9.2-51	2009/3/27	Y	N	N		-	DCD_3.9.2-51	2	2
		207	3.9.2-52	2009/3/27	Y	N	N		-	DCD_3.9.2-52	2	2
		207	3.9.2-53	2009/3/27	Y	N	N		-	DCD_3.9.2-53	2	2
		207	3.9.2-54	2009/3/27	N	N	N		-	-	N/A	N/A
		207	3.9.2-55	2009/3/27	Y	N	N		-	DCD_3.9.2-55	2	2
		207	3.9.2-56	2009/3/27	Y	N	N		-	DCD_3.9.2-56	2	2
		207	3.9.2-57	2009/3/27	Y	N	N		-	DCD_3.9.2-57	2	2
		207	3.9.2-58	2009/3/27	Y	N	N		-	DCD_3.9.2-58	2	2
		207	3.9.2-59	2009/3/27	N	N	N		-	-	N/A	N/A
		208	3.9.2-70	2009/3/27	Y	N	N		-	DCD_3.9.2-70	3	2
3.9.2	Dynamic Testing and Analysis	498	03.09.02-59	2010/1/15	N	N	N		-	-	N/A	N/A
	of Systems, Structures,	498	03.09.02-60	2010/1/15	N	N	N		-	-	N/A	N/A
	and Components	498	03.09.02-61	2010/2/3	Y	N	N		-	DCD_03.09.02-61	TBD	
		498	03.09.02-62	2010/2/3	Y	N	N		-	DCD_03.09.02-62	TBD	
		498	03.09.02-63	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-64	2010/2/3	Y	N	N		-	DCD_03.09.02-64	2	3
		498	03.09.02-65	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-66	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-67	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-68	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-69	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-70	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-71	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-72	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-73	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-74	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-75	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-76	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-77	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-78	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-79	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-80	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-81	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-82	2010/2/3	N	N	N		-	-	N/A	N/A
		498	03.09.02-83	2010/1/15	N	N	N		-	-	N/A	N/A
		498	03.09.02-84	2010/2/3	N	N	N		-	-	N/A	N/A
		614	03.09.02-85	2010/9/16	N	N	N		-	-	N/A	N/A

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		614	03.09.02-86	2010/9/16	N	N	N		-	-	N/A	N/A
		614	03.09.02-87	2010/9/16	N	N	N		-	-	N/A	N/A
		614	03.09.02-88	2010/9/29	N	N	N		-	-	N/A	N/A
		614	03.09.02-89	2010/9/29	Y	N	N		-	DCD_03.09.02-89	6	3
		614	03.09.02-90	2010/9/29	Y	N	N		-	DCD_03.09.02-90	6	3
		614	03.09.02-91	2010/10/28	N	N	N		-	-	N/A	N/A
				2011/12/2	N	N	N		-	-	N/A	N/A
		646	03.09.02-92	2010/11/11	N	N	N		-	-	N/A	N/A
				2010/12/14	N	N	N		-	-	N/A	N/A
				2011/10/14	N	N	N		-	-	N/A	N/A
3.9.3	ASME Code Class 1, 2, and 3	209	03.09.03-1	2009/4/30	N	N	N		-	-	N/A	N/A
	Components,	209	03.09.03-2	2009/4/30	Y	N	N		-	DCD_03.09.03-2	3	2
	and Component Supports,	209	03.09.03-3	2009/4/30	Y	N	N		-	DCD_03.09.03-3	3	2
	and Core Support Structures	209	03.09.03-4	2009/4/30	Y	N	N		-	DCD_03.09.03-4	3	2
		209	03.09.03-5	2009/4/30	Y	N	N		-	DCD_03.09.03-5	3	2
		209	03.09.03-6	2009/4/30	Y	N	N		-	DCD_03.09.03-6	3	2
		209	03.09.03-7	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-8	2009/4/30	Y	N	N		-	DCD_03.09.03-8	3	2
		209	03.09.03-9	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-10	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-11	2009/4/30	Y	N	N		-	DCD_03.09.03-11	3	2
		209	03.09.03-12	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-13	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-14	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-15	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-16	2009/4/30	Y	N	N		-	DCD_03.09.03-16	3	2
		209	03.09.03-17	2009/4/30	Y	N	N		-	DCD_03.09.03-17	3	2
		209	03.09.03-18	2009/4/30	Y	N	N		-	DCD_03.09.03-18	3	2
		209	03.09.03-19	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-20	2009/4/30	Y	N	N		-	DCD_03.09.03-20	3	2
		209	03.09.03-21	2009/4/30	N	N	N		-	-	N/A	N/A
		209	03.09.03-22	2009/4/30	Y	N	N		-	DCD_03.09.03-22	3	2
		209	03.09.03-23	2009/4/30	Y	N	N		-	DCD_03.09.03-23	3	2
		375	03.09.03-24	2009/7/17	N	N	N		-	-	N/A	N/A
		375	03.09.03-25	2009/7/17	N	N	N		-	-	N/A	N/A
		847	03.09.03-27	11/25/2011	Y	N	N		-	DCD_03.09.03-27	1	
		851	03.09.03-28	12/20/2011	Y	N	N		-	DCD_03.09.03-28	TBD	
		870	03.09.03-29	12/26/2011	Y	N	N		-	DCD_03.09.03-29	TBD	
3.9.4	Control Rod Drive Systems	107	1293-01	2008/12/19	Y	N	N	fin.	-	DCD_1293-01	0	2
		107	1293-02	2008/12/19	Y	N	N	fin.	-	DCD_1293-02	0	2
		107	1293-03	2008/12/19	Y	N	N	fin.	-	DCD_1293-03	0	2
		107	1293-04	2008/12/19	N	N	N	fin.	-	N/A	N/A	N/A
		107	1293-05	2008/12/19	N	N	N	fin.	-	N/A	N/A	N/A
		107	1293-06	2008/12/19	N	N	N	fin.	-	N/A	N/A	N/A
				2011/8/11	N	N	N		-	N/A	N/A	N/A
		107	1293-07	2008/12/19	N	N	N	fin.	-	N/A	N/A	N/A
		107	1293-08	2008/12/19	Y	N	N	fin.	-	DCD_1293-08	0	2
		107	1293-09	2008/12/19	N	N	N	fin.	-	N/A	N/A	N/A
		107	1293-10	2008/12/19	Y	N	N	fin.	-	DCD_1293-10	0	2
		569	03.09.04-2	2010/5/13	Y	N	N		-	DCD_03.09.04-2	3	3
		570	03.09.04-3	2010/5/19	Y	N	N		-	DCD_03.09.04-3	4	3
		570	03.09.04-4	2010/5/19	Y	N	N		-	DCD_03.09.04-4	4	3
		570	03.09.04-5	2010/5/19	Y	N	N		-	DCD_03.09.04-5	4	3
		570	03.09.04-6	2010/5/19	N	N	N		-	-	N/A	N/A
		604	03.09.04-7	2010/7/28	Y	N	N		-	DCD_03.09.04-7	4	3
		604	03.09.04-8	2010/7/28	Y	N	N		-	DCD_03.09.04-8	4	3
		604	03.09.04-9	2010/7/28	Y	N	N		-	DCD_03.09.04-9	4	3
				2011/8/11	N	N	N		-	-	N/A	N/A
		679	03.09.04-10	2010/2/9	Y	N	N		-	DCD_03.09.04-10	0	
				2011/4/25	Y	N	N					
		679	03.09.04-11	2010/2/9	Y	N	N		-	DCD_03.09.04-11	0	
				2011/4/25	Y	N	N		-	DCD_03.09.04-11	0	
				2011/7/29	Y	N	N		-	DCD_03.09.04-11	1	
		679	03.09.04-12	2010/2/9	N	N	N		-	-	N/A	N/A
		835	03.09.04-13	11/02/2011	Y	N	N		-	DCD_03.09.04-13	1	

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		848	03.09.04-14	11/18/2011	N	N	N		-	-	N/A	N/A
3.9.5	Reactor Pressure Vessel Internals	374	03.09.05-1	2009/6/19	Y	N	N		-	DCD_03.09.05-1	3	2
		374	03.09.05-2	2009/7/17	Y	N	N		-	DCD_03.09.05-2	4	2
		374	03.09.05-3	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-4	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-5	2009/6/19	Y	N	N		-	DCD_03.09.05-5	3	2
		374	03.09.05-6	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-7	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-8	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-9	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-10	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-11	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-12	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-13	2009/6/19	Y	N	N		-	DCD_03.09.05-13	3	2
		374	03.09.05-14	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-15	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-16	2009/7/17	Y	N	N		-	DCD_03.09.05-16	4	2
		374	03.09.05-17	2009/7/17	N	N	N		-	-	N/A	N/A
			03.09.05-18						-			
		374	03.09.05-19	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-20	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-21	2009/6/19	N	N	N		-	-	N/A	N/A
		374	03.09.05-22	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-23	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-24	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-25	2009/6/19	N	N	N		-	-	N/A	N/A
		374	03.09.05-26	2009/7/17	N	N	N		-	-	N/A	N/A
		374	03.09.05-27	2009/7/17	Y	N	N		-	DCD_03.09.05-27	4	2
		663	03.09.05-28	2011/1/21	N	N	N		-	-	N/A	N/A
		663	03.09.05-29	2011/1/21	N	N	N		-	-	N/A	N/A
		663	03.09.05-30	2011/1/21	Y	N	N		-	DCD_03.09.05-30	0	
		663	03.09.05-31	2011/1/21	N	N	N		-	-	N/A	N/A
		663	03.09.05-32	2011/1/21	Y	N	N		-	DCD_03.09.05-32	0	
		663	03.09.05-33	2011/1/21	Y	N	N		-	DCD_03.09.05-33	0	
		663	03.09.05-34	2011/1/21	N	N	N		-	-	N/A	N/A
3.9.6	Functional Design, Qualification,	288	03.09.06-01	2009/5/23	Y	N	N		-	DCD_03.09.06-01	3	2
	and Inservice Testing Programs	288	03.09.06-02	2009/5/23	Y	N	N		-	DCD_03.09.06-02	3	2
	for Pumps, Valves,	288	03.09.06-03	2009/5/23	Y	N	N		-	DCD_03.09.06-03	3	2
	and Dynamic Restraints	288	03.09.06-04	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-05	2009/5/23	Y	N	N		-	DCD_03.09.06-05	3	2
		288	03.09.06-06	2009/5/23	Y	N	N		-	DCD_03.09.06-06	3	2
		288	03.09.06-07	2009/5/23	Y	N	N		-	DCD_03.09.06-07	3	2
		288	03.09.06-08	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-09	2009/5/23	Y	N	N		-	DCD_03.09.06-09	3	2
		288	03.09.06-10	2009/5/23	Y	N	N		-	DCD_03.09.06-10	3	2
		288	03.09.06-11	2009/5/23	Y	N	N		-	DCD_03.09.06-11	3	2
		288	03.09.06-12	2009/5/23	Y	N	N		-	DCD_03.09.06-12	3	2
		288	03.09.06-13	2009/5/23	Y	N	N		-	DCD_03.09.06-13	3	2
		288	03.09.06-14	2009/5/23	Y	N	N		-	DCD_03.09.06-14	3	2
		288	03.09.06-15	2009/5/23	Y	N	N		-	DCD_03.09.06-15	3	2
		288	03.09.06-16	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-17	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-18	2009/5/23	Y	N	N		-	DCD_03.09.06-18	3	2
		288	03.09.06-19	2009/5/23	Y	N	N		-	DCD_03.09.06-19	3	2
		288	03.09.06-20	2009/5/23	Y	N	N		-	DCD_03.09.06-20	3	2
		288	03.09.06-21	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-22	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-23	2009/5/23	Y	N	N		-	DCD_03.09.06-23	3	2
		288	03.09.06-24	2009/5/23	N	N	N		-	-	N/A	N/A
		3	03.09.06-25	2009/5/23	Y	N	N		-	DCD_03.09.06-25	3	2
		288	03.09.06-26	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-27	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-28	2009/5/23	Y	N	N		-	DCD_03.09.06-28	3	2
		288	03.09.06-29	2009/5/23	Y	N	N		-	DCD_03.09.06-29	3	2
		288	03.09.06-30	2009/5/23	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		288	03.09.06-31	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-32	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-33	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-34	2009/5/23	Y	N	N		-	DCD_03.09.06-34	3	2
		288	03.09.06-35	2009/5/23	Y	N	N		-	DCD_03.09.06-35	3	2
		288	03.09.06-36	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-37	2009/5/23	Y	N	N		-	DCD_03.09.06-37	3	2
		288	03.09.06-38	2009/5/23	Y	N	N		-	DCD_03.09.06-38	3	2
		288	03.09.06-39	2009/5/23	Y	N	N		-	DCD_03.09.06-39	3	2
		288	03.09.06-40	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-41	2009/5/23	Y	N	N		-	DCD_03.09.06-41	3	2
		288	03.09.06-42	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-43	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-44	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-45	2009/5/23	N	N	N		-	-	N/A	N/A
		288	03.09.06-46	2009/5/23	Y	N	N		-	DCD_03.09.06-46	3	2
		288	03.09.06-47	2009/5/23	Y	N	N		-	DCD_03.09.06-47	3	2
		288	03.09.06-48	2009/5/23	N	N	N		-	-	N/A	N/A
		801	03.09.06-49	11/02/2011	Y	N	N		-	DCD_03.09.06-49	1	
		801	03.09.06-50	11/02/2011	Y	N	N		-	DCD_03.09.06-50	1	
		801	03.09.06-51	11/02/2011	Y	N	N		-	DCD_03.09.06-51	1	
		801	03.09.06-52	11/02/2011	Y	N	N		-	DCD_03.09.06-52	1	
		801	03.09.06-53	11/02/2011	Y	Y	N		-	DCD_03.09.06-53	1	
		801	03.09.06-54	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-55	11/02/2011	Y	Y	N		-	DCD_03.09.06-53	1	
		801	03.09.06-56	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-57	11/02/2011	Y	N	N		-	DCD_03.09.06-57	1	
		801	03.09.06-58	11/02/2011	Y	N	N		-	DCD_03.09.06-58	1	
		801	03.09.06-59	11/02/2011	Y	N	N		-	DCD_03.09.06-59	1	
		801	03.09.06-60	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-61	11/02/2011	Y	N	N		-	DCD_03.09.06-59	1	
		801	03.09.06-62	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-63	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-64	11/02/2011	Y	N	N		-	DCD_03.09.06-64	1	
		801	03.09.06-65	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-66	11/02/2011	Y	Y	N		-	DCD_03.09.06-53	1	
		801	03.09.06-67	11/02/2011	N	N	N		-	-	N/A	N/A
		801	03.09.06-68	11/02/2011	Y	Y	N		-	DCD_03.09.06-53	1	
3.10	Seismic/Dynamic Qual	216	USAPWR-3.10-1	2009/3/25	N	N	N		-	-	N/A	N/A
	of Mech/Elec Eqmt	216	USAPWR-3.10-2	2009/3/25	Y	N	N		-	DCD_USAPWR-3.10-2	2	2
		216	USAPWR-3.10-3	2009/4/22	Y	N	N		-	DCD_USAPWR-3.10-3	3	2
		216	USAPWR-3.10-4	2009/3/25	N	N	N		-	-	N/A	N/A
		216	USAPWR-3.10-5	2009/4/22	N	N	N		-	-	N/A	N/A
		216	USAPWR-3.10-6	2009/3/25	Y	N	N		-	DCD_USAPWR-3.10-6	2	2
		216	USAPWR-3.10-7	2009/4/22	N	N	N		-	-	N/A	N/A
		216	USAPWR-3.10-8	2009/3/25	Y	N	N		-	DCD_USAPWR-3.10-8	2	2
		216	USAPWR-3.10-9	2009/4/22	N	N	N		-	-	N/A	N/A
		486	03.10-10	2009/12/9	N	N	N		-	-	N/A	N/A
		486	03.10-11	2009/12/9	Y	N	N		-	DCD_03.10-11	1	3
		486	03.10-12	2009/12/9	Y	N	N		-	DCD_03.10-12	1	3
		486	03.10-13	2009/12/25	Y	N	N		-	DCD_03.10-13	1	3
		486	03.10-14	2009/12/25	N	N	N		-	-	N/A	N/A
		486	03.10-15	2009/12/25	N	N	N		-	-	N/A	N/A
		486	03.10-16	2009/12/25	N	N	N		-	-	N/A	N/A
		486	03.10-17	2009/12/25	N	N	N		-	-	N/A	N/A
3.11	Environmental Qual	358	03.11-1	2009/7/10	Y	N	N		-	DCD_03.11-1	4	2
	of Mech/Elec Eqmt	358	03.11-2	2009/7/10	Y	N	N		-	DCD_03.11-2	4	2
		358	03.11-3	2009/7/10	N	N	N		-	-	N/A	N/A
		358	03.11-4	2009/7/10	N	N	N		-	-	N/A	N/A
		358	03.11-5	2009/7/10	Y	N	N		-	DCD_03.11-5	4	2
		444	03.11-6	2009/9/29	N	N	N		-	-	N/A	N/A

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		444	03.11-7	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-8	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-9	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-10	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-11	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-12	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-13	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-14	2009/9/29	N	N	N		-	-	N/A	N/A
		444	03.11-15	2009/9/29	N	N	N		-	-	N/A	N/A
		445	03.11-16	2009/9/29	Y	~~Y~~ 1.8	N		-	DCD_03.11-16	0	3
		511	03.11-17	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-17 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-18	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-18 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-19	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-19 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-20	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-20 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-21	2010/2/2	Y	N	N		-	DCD_03.11-21	2	3
		511	03.11-21 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-22	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-22 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-23	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-23 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-24	2010/2/2	Y	N	N		-	DCD_03.11-24	2	3
		511	03.11-25	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-25 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-26	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-26 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		511	03.11-27	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-28	2010/2/2	N	N	N		-	-	N/A	N/A
		511	03.11-28 Supp	2010/6/28	N	N	N		-	-	N/A	N/A
		512	03.11-29	2010/1/28	N	N	N		-	-	N/A	N/A
		512	03.11-30	2010/1/28	N	N	N		-	-	N/A	N/A
		512	03.11-31	2010/1/28	N	N	N		-	-	N/A	N/A
		512	03.11-32	2010/1/28	N	N	N		-	-	N/A	N/A
		512	03.11-33	2010/1/28	N	N	N		-	-	N/A	N/A
		512	03.11-34	2010/1/28	Y	N	N		-	DCD_03.11-34	4	3
		512	03.11-35	2010/1/28	N	N	N		-	-	N/A	N/A
		589	03.11-36	2010/7/8	N	N	N		-	-	N/A	N/A
		589	03.11-37	2010/7/8	N	N	N		-	-	N/A	N/A
		589	03.11-38	2010/7/8	Y	N	N		-	DCD_03.11-38	4	3
		650	03.11-39	XX/YY/2010								
		650	03.11-40	XX/YY/2010	-	-	-	-	COL3.10(10) deleted	MAP-03-014	-	2
		650	03.11-40	XX/YY/2010								
3.12	ASME Code Class 1, 2, and 3	259	03.12-1	2009/4/17	Y	N	N		-	DCD_03.12-1	3	2
	Piping Systems,	259	03.12-2	2009/4/17	Y	N	N		-	DCD_03.12-2	3	2
	Piping Components	259	03.12-3	2009/4/17	Y	N	N		-	DCD_03.12-3	3	2
	and their Associated Supports	259	03.12-4	2009/4/17	Y	N	N		-	DCD_03.12-4	3	2
		260	03.12-5	2009/4/17	Y	N	N		-	DCD_03.12-5	3	2
		260	03.12-6	2009/4/17	Y	N	N		-	DCD_03.12-6	3	2
		260	03.12-7	2009/4/17	N	N	N		-	-	N/A	N/A
		260	03.12-8	2009/4/17	Y	N	N		-	DCD_03.12-8	3	2
		260	03.12-9	2009/4/17	N	N	N		-	-	N/A	N/A
		260	03.12-10	2009/4/17	N	N	N		-	-	N/A	N/A
		260	03.12-11	2009/4/17	N	N	N		-	-	N/A	N/A
		260	03.12-12	2009/4/17	N	N	N		-	-	N/A	N/A
		260	03.12-13	2009/4/17	Y	N	N		-	DCD_03.12-13	3	2
		260	03.12-14	2009/4/17	Y	N	N		-	DCD_03.12-14	3	2
		260	03.12-15	2009/4/17	Y	N	N		-	DCD_03.12-15	3	2
		260	03.12-16	2009/4/17	N	N	N		-	-	N/A	N/A
		465	03.12-17	2009/12/2	Y	N	N		-	DCD_O3.12-17	1	3
		465	03.12-18	2009/11/18	N	N	N		-	-	N/A	N/A
		465	03.12-19	2009/11/18	Y	N	N		-	DCD_03.12-19	0	3
		465	03.12-20	2009/11/18	Y	N	N		-	DCD_03.12-20	0	3
		465	03.12-21	2009/11/18	N	N	N		-	-	N/A	N/A
		465	03.12-22	2009/11/18	N	N	N		-	-	N/A	N/A
		465	03.12-23	2009/12/2	Y	N	N		-	DCD_03.12-23	1	3
		465	03.12-24	2009/11/18	Y	N	N		-	DCD_03.12-24	0	3

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		742	03.12-25	2011/7/8	Y	N	N		-	DCD_03.12-25	0	
				10/26/2011	Y	Y	N		-	DCD_03.12-25	1	
		804	03.12-26	11/10/2011	N	N	N		-	-	N/A	N/A
		804	03.12-27	11/10/2011	Y	N	N		-	DCD_03.12-27	1	
		804	03.12-28	11/10/2011	Y	N	N		-	DCD_03.12-28	1	
		804	03.12-29	11/25/2011	Y	N	N		-	DCD_03.12-29	1	
		846	03.12-30	11/18/2011	Y	N	N		-	DCD_03.12-30	1	
3.13	Threaded Fasteners -	273	3.13-1	2009/4/9	Y	N	N		-	DCD_3.13-1	3	2
	ASME Code Class 1, 2, and 3	273	3.13-2	2009/4/9	Y	N	N		-	DCD_3.13-2	3	2
		273	3.13-3	2009/4/9	Y	N	N		-	DCD_3.13-3	3	2
		273	3.13-4	2009/4/9	Y	N	N		-	DCD_3.13-4	3	2
		273	3.13-5	2009/4/9	Y	N	N		-	DCD_3.13-5	3	2
		-	-	-	-	-	-	-	COL3.13(1) deleted	MAP-03-015	-	2
		-	-	-	-	-	-	-	COL3.13(2) deleted	MAP-03-016	-	2

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4.2	Fuel System Design	129	04.02-1	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-2	2009/1/30	Y	N	N		-	DCD_04.02-2	2	2
		129	04.02-3	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-4	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-5	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-6	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-7	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-8	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-9	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-10	2009/1/30	N	N	N		-	-	N/A	N/A
				12/14/2011	N	N	N		-	-	N/A	N/A
		129	04.02-11	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-12	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-13	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-14	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-15	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-16	2009/1/30	N	N	N		-	-	N/A	N/A
		129	04.02-17	2009/1/30	Y	N	N		-	DCD_04.02-17	2	2
		129	04.02-18	2009/1/30	N	N	N		-	-	N/A	N/A
				12/14/2011	Y	N	N			DCD_04.02-18	1	
		129	04.02-19	2009/1/30	N	N	N		-	-	N/A	N/A
				12/14/2011	Y	N	N			DCD_04.02-19	1	
		129	04.02-20	2009/1/30	N	N	N		-	-	N/A	N/A
				12/14/2011	N	N	N			-	N/A	N/A
		476	4.1-***1	2009/12/11	N	N	N		-	-	N/A	N/A
		476	4.1-***2	2009/12/11					-			
		476	4.1-***3	2009/12/11	N	N	N		-	-	N/A	N/A
		477	4.2-***1	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***2	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***3	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***4	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***5	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***6	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***7	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***8	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***9	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***10	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***11	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***12	2009/12/18	N	N	N		-	-	N/A	N/A
		477	4.2-***13	2009/12/18	N	N	N		-	-	N/A	N/A
		519	04.02-37	2/25/2010	N	N	N		-	-	N/A	N/A
		519	04.02-38	2/25/2010	N	N	N		-	-	N/A	N/A
		519	04.02-39	2/25/2010	N	N	N		-	-	N/A	N/A
		519	04.02-40	2/25/2010	N	N	N		-	-	N/A	N/A
		519	04.02-41	2/25/2010	N	N	N		-	-	N/A	N/A
		519	04.02-42	2/25/2010	N	N	N		-	-	N/A	N/A
		572	04.02-43	2010/5/14	N	N	N		-	-	N/A	N/A
		572	04.02-44	2010/5/14	N	N	N		-	-	N/A	N/A
		869	04.02-45	12/14/2011	N	N	N			-	N/A	N/A
4.3	Nuclear Design	202	04.03-1	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-2	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-3	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-4	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-5	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-6	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-7	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-8	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-9	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-10	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-11	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-12	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-13	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-14	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-14A	2009/3/27	N	N	N		-	-	N/A	N/A
		202	04.03-14B	2009/3/27	N	N	N		-	-	N/A	N/A

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		202	04.03-14C	2009/3/27	N	N	N		-	-	N/A	N/A
		256	04.03-15	2009/3/30	N	N	N		-	-	N/A	N/A
		256	04.03-16	2009/3/30	N	N	N		-	-	N/A	N/A
		256	04.03-17	2009/3/30	N	N	N		-	-	N/A	N/A
		256	04.03-18	2009/4/27	N	N	N		-	-	N/A	N/A
		256	04.03-19	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-20	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-21	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-22	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-23	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-24	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-25	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-26	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-27	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-28	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-29	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-30	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-31	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-32	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-33	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-34	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-35	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-36	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-37	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-38	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-39	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-40	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-41	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-42	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-43	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-44	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-45	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-45A	2009/3/30	N	N	N		-	-	N/A	N/A
		257	04.03-45B	2009/3/30	N	N	N		-	-	N/A	N/A
		450	04.03-46	2009/9/24	N	N	N		-	-	N/A	N/A
		450	04.03-47	2009/9/24	N	N	N		-	-	N/A	N/A
		545	04.03-48	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-49	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-50	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-51	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-52	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-53	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-54	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-55	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-56	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-57	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-58	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-59	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-60	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-61	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-62	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-63	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-64	2010/4/2	N	N	N		-	-	N/A	N/A
		545	04.03-65	2010/4/28	N	N	N		-	-	N/A	N/A
		545	04.03-66	2010/4/28	N	N	N		-	-	N/A	N/A
		717	04.03-67	2011/3/29	N	N	N		-	-	N/A	N/A
4.4	Thermal and Hydraulic Design	377	04.04-1	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-2	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-3	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-4	2009/6/25	N	N	N		-	-	N/A	N/A
				2009/12/2	N	N	N		-	-	N/A	N/A
		377	04.04-5	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-6	2009/6/25	N	N	N		-	-	N/A	N/A
		378	04.04-7	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-5	2009/6/25	N	N	N		-	-	N/A	N/A
		377	04.04-6	2009/6/25	N	N	N		-	-	N/A	N/A
		378	04.04-7	2009/6/25	N	N	N		-	-	N/A	N/A
		530	04.04-8	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-9	2010/3/4	N	N	N		-	-	N/A	N/A

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		530	04.04-10	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-11	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-12	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-13	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-14	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-15	2010/3/4	Y	N	N		-	DCD_04.04-15	3	3
		530	04.04-16	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-17	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-18	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-19	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-20	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-21	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-22	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-23	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-24	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-25	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-26	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-27	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-28	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-29	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-30	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-31	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-32	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-33	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-34	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-35	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-36	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-37	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-38	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-39	2010/3/4	N	N	N		-	-	N/A	N/A
		530	04.04-40	2010/3/4	N	N	N		-	-	N/A	N/A
		845	04.04-41	11/11/2011	N	N	N		-	-	N/A	N/A
4.5.1	Control Rod Drive	268	4.5.1-1	2009/4/28	Y	N	N		-	DCD_4.5.1-1	3	2
	Structural Materials	268	4.5.1-2	2009/4/28	Y	N	N		-	DCD_4.5.1-2	3	2
		268	4.5.1-3	2009/4/28	N	N	N		-	-	N/A	N/A
		268	4.5.1-4	2009/4/28	Y	N	N		-	DCD_4.5.1-4	3	2
		268	4.5.1-5	2009/4/28	Y	N	N		-	DCD_4.5.1-5	3	2
		268	4.5.1-6	2009/4/28	Y	N	N		-	DCD_4.5.1-6	3	2
		268	4.5.1-7	2009/4/28	Y	N	N		-	DCD_4.5.1-7	3	2
		457	04.5.01-8	10/29/2009	Y	N	N		-	DCD_04.5.01-8	0	3
				2011/7/15	Y	N	N		-		1	
		457	04.5.01-9	10/29/2009	Y	N	N		-	DCD_04.5.01-9	0	3
		457	04.5.01-10	10/29/2009	Y	N	N		-	DCD_04.5.01-10	0	3
				2010/3/29	Y	N	N		-	DCD_04.5.01-10	3	3
		654	04.05.01-11	12/03/2010	Y	N	N		-	DCD_04.5.01-11	6	3
				7/15/2011	Y	N	N		-	DCD_04.5.01-11	1	
		654	04.05.01-12	12/03/2010	Y	N	N		-	DCD_04.5.01-12	6	3
		654	04.05.01-13	12/03/2010	Y	N	N		-	DCD_04.5.01-13	6	3
		654	04.05.01-14	12/03/2010	Y	N	N		-	DCD_04.5.01-14	6	3
		654	04.05.01-15	12/03/2010	Y	N	N		-	DCD_04.5.01-15	6	3
				7/15/2011	Y	N	N		-	DCD_04.5.01-15	1	
4.5.2	Reactor Internal and Core	269	4.5.2-1	2009/5/13	Y	N	N		-	DCD_4.5.2-1	3	2
	Support Structure Materials	269	4.5.2-2	2009/5/13	Y	N	N		-			
				2009/6/30	N	N	N		-	-	N/A	N/A
		269	4.5.2-3	2009/5/13	Y	N	N		-	DCD_4.5.2-3	3	2
		269	4.5.2-4	2009/5/13	N	N	N		-	-	N/A	N/A
		269	4.5.2-5	2009/5/13	Y	N	N		-	DCD_4.5.2-5	3	2
		414	4.5.2-6	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-7	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-8	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-9	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-10	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-11	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-12	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-13	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-14	2009/8/7	N	N	N		-	-	N/A	N/A

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		414	4.5.2-15	2009/8/7	N	N	N		-	-	N/A	N/A
		414	4.5.2-16	2009/8/7	N	N	N		-	-	N/A	N/A
		502	4.5.2-17	2010/1/18	N	N	N		-	-	N/A	N/A
		502	4.5.2-18	2010/1/18	N	N	N		-	-	N/A	N/A
				2010/1/21	N	N	N		-	-	N/A	N/A
		502	4.5.2-19	2010/1/18	N	N	N		-	-	N/A	N/A
		502	4.5.2-20	2010/1/18	N	N	N		-	-	N/A	N/A
		527	4.5.2-21	2010/3/2	N	N	N		-	-	N/A	N/A
		573	4.5.2-22	2010/5/19	N	N	N		-	-	N/A	N/A
		620	4.5.2-23	2010/9/14	N	N	N		-	-	N/A	N/A
		653	4.5.2-24	2010/12/13	N	N	N		-	-	N/A	N/A
		784	4.5.2-25	2011/9/12	N	N	N		-	-	N/A	N/A
				201/11/21	N	N	N		-	-	N/A	N/A
4.6	Functional Design	316	4.6.1	2009/5/20	N	N	N		-	-	N/A	N/A
	of Control Rod Drive System	316	4.6.2	2009/5/20	Y	N	N		-	DCD_4.6.2	-	2
		316	4.6.3	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.4	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.5	2009/5/20	Y	N	N		-	DCD_4.6.5	-	2
		316	4.6.6	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.7	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.8	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.9	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.10	2009/5/20	N	N	N		-	-	N/A	N/A
		316	4.6.11	2009/5/20	Y	N	N		-	DCD_4.6.11	3	2

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5.2.1.1	Compliance with the Codes	264	05.02.01.01-1	2009/10/2	Y	Y	N		-	DCD_05.02.01.01-1	-	2
	and Standards Rule, 10 CFR 50.55a			2009/4/24	Y	N	N		-	DCD_05.02.01.01-2	3	2
				2009/4/24	Y	N	N		-	DCD_05.02.01.01-3	3	2
				2009/12/15	Y	Y	N		-	DCD_05.02.01.01-1	7	3
5.2.1.2	Applicable Code Cases	253	05.02.01.02-1	2009/4/17	N	N	N		-	-	N/A	N/A
		253	05.02.01.02-2	2009/4/17	Y	N	N		-	DCD_05.02.01.02-2	3	2
		253	05.02.01.02-3	2009/4/17	Y	N	N		-	DCD_05.02.01.02-3	3	2
		291	05.02.01.02-4	2009/4/17	N	N	N		-	-	N/A	N/A
		291	05.02.01.02-5	2009/4/17	Y	N	N		-	DCD_05.02.01.02-5	3	2
		315	05.02.01.02-6	2009/4/28	N	N	N		-	-	N/A	N/A
		575	05.02.01.02-7	2010/5/7	Y	N	N		-	DCD_05.02.01.02-7	7	3
				2011/4/26	Y	N	N		-		0	
5.2.2	Overpressure Protection	103	05.02.02-1	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-2	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-3	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-4	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-5	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-6	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		103	05.02.02-7	2008/12/25	Y	N	N	fin.	-	DCD_05.02.02-7	0	2
		103	05.02.02-8	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
5.2.3	Reactor Coolant Pressure Boundary	224	05.02.03-1	2009/3/24	Y	N	N		-	DCD_05.02.03-1	3	2
	Materials			2009/10/2	Y	Y	N		-	DCD_05.02.03-1	-	2
		224	05.02.03-2	2009/3/24	Y	N	N		-	DCD_05.02.03-2	2	2
		224	05.02.03-3	2009/3/24	Y	N	N		-	DCD_05.02.03-3	3	2
		289	05.02.03-4	2009/5/13	Y	N	N		-	DCD_05.02.03-4	3	2
		289	05.02.03-5	2009/5/13	Y	N	N		-	DCD_05.02.03-5	3	2
		289	05.02.03-6	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-7	2009/5/13	Y	N	N		-	DCD_05.02.03-7	3	2
		289	05.02.03-8	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-9	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-10	2009/5/13	Y	N	N		-	DCD_05.02.03-10	3	2
		289	05.02.03-11	2009/5/13	Y	N	N		-	DCD_05.02.03-11	4	2
		289	05.02.03-12	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-13	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-14	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-15	2009/5/13	N	N	N		-	-	N/A	N/A
		289	05.02.03-16	2009/5/13	N	N	N		-	-	N/A	N/A
		350	05.02.03-17	2009/6/18	Y	N	N		-	DCD_05.02.03-17	3	2
		289	05.02.03-12	2010/3/1	Y	N	N		-	DCD_O5.02.03-12	7	3
		509	05.02.03-18	2010/1/29	N	N	N		-	-	N/A	N/A
		540	05.02.03-19	2010/6/4	Y	N	N		-	DCD_O5.02.03-19	7	3
		540	05.02.03-20	2010/6/4	N	N	N		-	-	N/A	N/A
		540	05.02.03-21	2010/6/4	Y	N	N		-	DCD_O5.02.03-21	7	3
		540	05.02.03-22	2010/6/4	Y	N	N		-	DCD_O5.02.03-22	7	3
		540	05.02.03-23	2010/6/4	Y	N	N		-	DCD_O5.02.03-23	7	3
		540	05.02.03-24	2010/6/4	N	N	N		-	-	N/A	N/A
		540	05.02.03-25	2010/6/4	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL 5.2(4) revised	MAP-05-001	TBD	
		-	-	-	-	-	-	-	COL 5.2(5) revised	MAP-05-002	TBD	
		644	05.02.03-26	2010/11/8	Y	N	N		-	DCD_05.02.03-26	7	3
		644	05.02.03-27	2010/11/8	Y	N	N		-	DCD_05.02.03-27	7	3
				2011/2/20	Y	N	N		-	DCD_05.02.03-27	0	
		644	05.02.03-28	2010/11/8	Y	N	N		-	DCD_05.02.03-28	7	3
		644	05.02.03-29	2010/11/8	Y	N	N		-	DCD_05.02.03-29	7	3
		644	05.02.03-30	2010/11/8	N	N	N		-	-	N/A	N/A
				2011/2/20	N	N	N		-	-	N/A	N/A
		644	05.02.03-31	2010/11/8	N	N	N		-	-	N/A	N/A
				2011/2/20	N	N	N		-	-	N/A	N/A
5.2.4	Reactor Coolant Pressure Boundary	254	05.02.04-1	2009/4/17	Y	N	N		-	DCD_05.02.04-1	3	2
	Inservice Inspection and Testing	254	05.02.04-2	2009/4/17	Y	N	N		-	DCD_05.02.04-2	3	2
		254	05.02.04-3	2009/4/17	Y	N	N		-	DCD_05.02.04-3	3	2
		254	05.02.04-4	2009/4/17	Y	N	N		-	DCD_05.02.04-4	3	2
		254	05.02.04-5	2009/4/17	Y	N	N		-	DCD_05.02.04-5	3	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		254	05.02.04-6	2009/4/17	N	N	N		-	-	N\A	N/A
		254	05.02.04-7	2009/4/17	Y	N	N		-	DCD_05.02.04.-7	3	2
		254	05.02.04-8	2009/4/17	Y	N	N		-	DCD_05.02.04.-8	3	2
				2009/10/2	Y	Y	N		-	DCD_05.02.04-8	-	2
5.2.5	Reactor Coolant Pressure Boundary	165	05.02.05-1	2009/2/20	Y	N	N		-	DCD_05.02.05-1	1	2
	Leakage Detection	165	05.02.05-2	2009/2/20	Y	N	N		-	DCD_05.02.05-2	1	2
		165	05.02.05-3	2009/2/20	Y	N	N		-	DCD_05.02.05-3	1	2
		165	05.02.05-4	2009/2/20	Y	N	N		-	DCD_05.02.05-4	1	2
		165	05.02.05-5	2009/2/20	N	N	N		-	-	N/A	N/A
		165	05.02.05-6	2009/2/20	Y	N	N		-	DCD_05.02.05-6	1	2
		438	05.02.05-7	2009/9/11	Y	Y 1.8	N		-	DCD_05.02.05-7	-	2
		438	05.02.05-8	2009/9/11	Y	N	N		-	DCD_05.02.05-8	-	2
		438	05.02.05-9	2009/9/11	Y	N	N		-	DCD_05.02.05-9	-	2
		438	05.02.05-10	2009/9/11	Y	Y 1.8	N		-	DCD_05.02.05-10	-	2
		478	05.02.05-11	2009/12/2	Y	N	N		-	DCD_05.02.05-11	1	3
		549	05.02.05-12	2010/4/9	Y	N	N		-	DCD_05.02.05-12	3	3
5.3.1	Reactor Vessel Materials	284	05.03.01-1	2009/4/23	N	N	N		-	-	N/A	N/A
		284	05.03.01-2	2009/4/23	Y	N	N		-	DCD_05.03.01.-2	3	2
5.3.2	Pressure-Temperature Limits,	285	05.03.02-1	2009/4/23	N	Y	N		-	-	N/A	N/A
	Upper-Shelf Energy,	588	05.03.02-2	2010/6/14	N	N	N		-	-	N/A	N/A
	and Pressurized Thermal Shock	588	05.03.02-3	2010/6/14	N	N	N		-	-	N/A	N/A
		588	05.03.02-4	2010/6/14	N	N	N		-	-	N/A	N/A
		588	05.03.02-5	2010/6/14	Y	N	N		-	DCD_05.03.02-5	4	3
		588	05.03.02-6	2010/6/14	N	N	N		-	-	N/A	N/A
		588	05.03.02-7	2010/6/14	N	N	N		-	-	N/A	N/A
		588	05.03.02-8	2010/6/14	N	N	N		-	-	N/A	N/A
		693	05.03.02-9	2011/3/22	Y	N	N		-	DCD_05.03.02-9	0	
		693	05.03.02-10	2011/3/22	N	N	N		-	-	N/A	N/A
		694	05.03.02-11	2011/3/11	N	N	N		-	-	N/A	N/A
5.3.3	Reactor Vessel Integrity	225	05.03.03-1	2009/3/26	Y	N	N		-			
				2009/4/17	Y	N	N		-	DCD_05.03.03-1	3	2
5.4	Reactor Coolant System	47	5.4.10-1	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
	Component and Subsystem Design											
		745	05.04-2	2011/7/4	Y	N	N		-	DCD_05.04-2	0	
		745	05.04-3	2011/7/4	N	N	N		-	-	N/A	N/A
5.4.1.1	Pump Flywheel Integrity (PWR)	274	05.04.01.01-1	2009/4/28	Y	N	N		-	DCD_05.04.01.01-1	3	2
		274	05.04.01.01-2	2009/4/28	N	N	N		-	-	N/A	N/A
		274	05.04.01.01-3	2009/4/28	Y	N	N		-	DCD_05.04.01.01-3	3	2
				2011/2/25	Y	N	N		-		TBD	
				2011/4/14	Y	N	N		-	DCD_05.04.01.01-3	0	
		274	05.04.01.01-4	2009/4/28	N	N	N		-	-	N/A	N/A
		274	05.04.01.01-5	2009/4/28	N	N	N		-	-	N/A	N/A
		274	05.04.01.01-6	2009/4/28	N	N	N		-	-	N/A	N/A
		274	05.04.01.01-7	2009/4/28	N	N	N		-	-	N/A	N/A
		738	05.04.01.01-8	2011/5/26	N	N	N		-	-	N/A	N/A
5.4.2.1	Steam Generator Materials	265	05.04.02.01-1	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-2	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-3	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-4	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-5	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-6	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-7	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-8	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-9	2009/3/25	Y	N	N		-	DCD_05.04.02.01-9	2	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		265	05.04.02.01-10	2009/3/25	N	N	N		-	-	N/A	N/A
		265	05.04.02.01-11	2009/3/25	N	N	N		-	-	N/A	N/A
		392	05.04.02.01-12	2009/6/29	N	N	N		-	-	N/A	N/A
5.4.2.2	Steam Generator Program	293	05.04.02.02-1	2009/4/17	Y	N	N		-	DCD_05.04.02.02-1	4	2
		293	05.04.02.02-2	2009/4/17	Y	N	N		-	DCD_05.04.02.02-2	3	2
		293	05.04.02.02-3	2009/4/17	Y	N	N		-	DCD_05.04.02.02-3	4	2
		293	05.04.02.02-4	2009/4/17	Y	N	N		-	DCD_05.04.02.02-4	4	2
		293	05.04.02.02-5	2009/4/17	Y	N	N		-	DCD_05.04.02.02-5	4	2
		293	05.04.02.02-6	2009/4/17	Y	N	N		-	DCD_05.04.02.02-6	3	2
		293	05.04.02.02-7	2009/4/17	Y	N	N		-	DCD_05.04.02.02-7	3	2
		293	05.04.02.02-8	2009/4/17	N	N	N		-	-	N/A	N/A
		393	05.04.02.02-9	2009/6/30	N	N	N		-	-	N/A	N/A
5.4.7	Residual Heat Removal (RHR)	163	05.04.07-1	2009/2/19	N	N	N		-	-	N/A	N/A
	System	163	05.04.07-2	2009/2/19	N	N	N		-	-	N/A	N/A
		163	05.04.07-3	2009/2/19	Y	N	N		-	DCD_05.04.07-3	2	2
		163	05.04.07-4	2009/2/19	Y	N	N		-	DCD_05.04.07-4	1	2
		163	05.04.07-5	2009/2/19	N	N	N		-	-	N/A	N/A
		163	05.04.07-6	2009/2/19	Y	N	N		-	DCD_05.04.07-6	1	2
		464	05.04.07-7	2009/11/4	N	N	N		-	-	N/A	N/A
		464	05.04.07-8	2009/11/4	N	N	N		-	-	N/A	N/A
		464	05.04.07-9	2009/11/4	N	N	N		-	-	N/A	N/A
		464	05.04.07-10	2009/11/4	N	N	N		-	-	N/A	N/A
		464	05.04.07-11	2009/11/4	N	N	N		-	-	N/A	N/A
				2011/10/12	N	N	N		-	-	N/A	N/A
		548	05.04.07-12	2010/4/6	Y	N	N		-	DCD_05.04.07-12	3	3
		617	05.04.07-13	2010/9/14	N	N	N		-	-	N/A	N/A
5.4.10												
5.4.11	Pressurizer Relief Tank	741	05.04.11-1	2011/6/29	Y	N	N		-	DCD_05.04.11-1	0	
		741	05.04.11-2	2011/6/29	N	N	N		-	-	N/A	N/A
		741	05.04.11-3	2011/6/29	N	N	N		-	-	N/A	N/A
5.4.12	Reactor Coolant System	48	5.4.12-1	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
	High Point Vents	48	5.4.12-2	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		48	5.4.12-3	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		48	5.4.12-4	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		48	5.4.12-5	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		48	5.4.12-6	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		OI	05.04.12-1	2009/10/2	N	N	N		-	-	N/A	N/A
		762	05.04.12-2	2011/7/7	Y	N	N		-	DCD_05.04.12-2	0	

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		612	06.01.01-21	2010/8/25	Y	N	N		-	DCD_06.01.01-21	1	
		612	06.01.01-22	2010/8/25	Y	N	N		-		5	3
				2010/10/7	Y	N	N		-	DCD_06.01.01-22	5	3
		612	06.01.01-23	2010/8/25	Y	N	N		-	DCD_06.01.01-23	5	3
		-	-	-	-	-	-	-	COL 6.1(1) deleted	MAP-06-001	-	2
		-	-	-	-	-	-	-	COL 6.1(2) deleted	MAP-06-002	-	2
		-	-	-	-	-	-	-	COL 6.1(3) deleted	MAP-06-003	1	2
		-	-	-	-	-	-	-	COL 6.1(4) deleted	MAP-06-004	1	2
		-	-	-	-	-	-	-	COL 6.1(5) deleted	MAP-06-005	-	2
6.1.2	Protective Coating Systems (Paints)	365	06.01.02-1	2009/6/12	Y	Y	N		-	DCD_06.01.02-1	3	2
	Organic Materials			2009/8/21	Y	Y	N		-	DCD_06.01.02-1	-	2
6.2.1	Containment Functional Design	110	06.02.01-1	2008/12/26	N	N	N	fin.	-	-	N/A	N/A
	Organic Materials	126	06.02.01-2	2009/1/29	Y	N	N		-	DCD_06.02.01-2	1	2
		126	06.02.01-3	2009/3/19	N	N	N		-	-	N/A	N/A
		126	06.02.01-4	2009/3/19	N	N	N		-	-	N/A	N/A
		126	06.02.01-5	2009/3/19	N	N	N		-	-	N/A	N/A
		126	06.02.01-6	2009/4/21	N	N	N		-	-	N/A	N/A
		331	06.02.01-7	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-8	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-9	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-10	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-11	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-12	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-13	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-14	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-15	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-16	2009/5/26	N	N	N		-	-	N/A	N/A
		331	06.02.01-17	2009/5/26	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL 6.2(1) deleted	MAP-06-006	-	2
6.2.1	Containment Functional Design	587	06.02.01.01.A-1	2010/6/7	N	N	N		-	-	N/A	N/A
	Organic Materials	623	06.02.01-18	2010/9/29	N	N	N		-	-	N/A	N/A
		623	06.02.01-19	2010/9/29	Y	N	N		-	-	TBD	
		623	06.02.01-20	2010/9/29	N	N	N		-	-	N/A	N/A
6.2.1.2	Subcompartment Analysis	6	06.02.01.02-1	2008/6/27	Y	N	N	fin.	-	DCD_06.02.01.02-1	1	2
		111	06.02.01.02-2	2009/2/17	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-3	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-4	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-5	2008/1/16	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-6	2008/1/16	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-7	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-8	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-9	2008/1/16	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-10	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-11	2009/2/2	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-12	2008/1/16	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-13	2008/1/16	N	N	N		-	-	N/A	N/A
		111	06.02.01.02-14	2008/1/16	N	N	N		-	-	N/A	N/A
6.2.1.3	Mass and Energy Release											
	Analysis for Postulated											
	Loss-of-Coolant Accidents											
6.2.1.4	Mass and Energy Release	112	06.02.01.04-1	2008/12/26	N	N	N	fin.	-	-	N/A	N/A
	Analysis for Postulated	113	06.02.01.04-2	2009/1/15	N	N	N		-	-	N/A	N/A
	Secondary System Pipe Ruptures	114	06.02.01.04-3	2008/12/26	N	N	N	fin.	-	-	N/A	N/A
	(LOCAs)											

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
6.2.1.5	Min. Containment Pressure	115	06.02.01.05-1	2008/12/25	Y	N	N	fin.	-	DCD_06.02.01.05-1	1	2
	Analysis for	116	06.02.01.05-2	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
	for Emergency Core Cooling Sys.	117	06.02.01.05-3	2009/1/15	N	N	N		-	-	N/A	N/A
	Performance Capability Studies	118	06.02.01.05-4	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		119	06.02.01.05-5	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		120	06.02.01.05-6	2008/12/25	Y	N	N	fin.	-	DCD_06.02.01.05-6	1	2
		121	06.02.01.05-7	2008/12/25	Y	N	N	fin.	-	DCD_06.02.01.05-7	1	2
		122	06.02.01.05-8	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
6.2.2	Containment	45	06.02.02-1	2008/8/26	Y	N	N	fin.	-	DCD_06.02.02-1	-	1
	Heat Removal Systems	45	06.02.02-2	2008/8/26	N	N	N	fin.	-	-	N/A	N/A
		45	06.02.02-3	2008/8/26	N	N	N	fin.	-	-	N/A	N/A
		45	06.02.02-4	2008/8/26	N	N	N	fin.	-	-	N/A	N/A
		84	06.02.02-5	2008/11/7	Y	N	N	fin.	-	DCD_06.02.02-5	1	2
		84	06.02.02-6	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		84	06.02.02-7	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		84	06.02.02-8	2008/11/7	Y	N	N	fin.	-	DCD_06.02.02-8	1	2
		84	06.02.02-9	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
		85	06.02.02-10	2009/11/12	Y	N	N	fin.	-	DCD_06.02.02-10	1	2
		85	06.02.02-11	2009/11/12	N	N	N	fin.	-	-	N/A	N/A
		263	06.02.02-12	2009/3/31	Y	N	N		-	DCD_06.02.02-12	3	2
		263	06.02.02-13	2009/3/31	N	N	N		-	-	N/A	N/A
		263	06.02.02-14	2009/3/31	N	N	N		-	-	N/A	N/A
		263	06.02.02-15	2009/3/31	N	N	N		-	-	N/A	N/A
		278	06.02.02-16	2009/4/10	Y	N	N		-	DCD_06.02.02-16	3	2
		330	06.02.02-17	2009/5/18	N	N	N		-	-	N/A	N/A
		349	06.02.02-18	2009/5/12	N	N	N		-	-	N/A	N/A
		354	06.02.02-19	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-20	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-21	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-22	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-23	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-24	2009/7/7	N	N	N		-	-	N/A	N/A
				10/16/2009	Y	N	N		-	DCD_06.02.02-24	TBD	
		354	06.02.02-25	2009/7/7	Y	N	N		-	DCD_06.02.02-25	4	2
		354	06.02.02-26	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-27	2009/7/7	Y	N	N		-	DCD_06.02.02-27	4	2
		354	06.02.02-28	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-29	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-30	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-31	2009/7/7	Y	Y	N		-	DCD_06.02.02-31	4	2
				10/06/2009	Y	Y	N		-	DCD_06.02.02-31	-	2
		354	06.02.02-32	2009/7/7	Y	Y	N		-	DCD_06.02.02-32	-	2
				10/06/2009	Y	N	N		-	DCD_06.02.02-32	-	2
		354	06.02.02-33	2009/7/7	Y	Y	N		-	DCD_06.02.02-33	-	2
				10/06/2009	Y	N	N		-	DCD_06.02.02-33	-	2
		354	06.02.02-34	2009/7/7	Y	Y	N		-	DCD_06.02.02-34	-	2
				10/06/2009	Y	N	N		-	DCD_06.02.02-34	-	2
		354	06.02.02-35	2009/7/7	Y	Y	N		-	DCD_06.02.02-35	-	2
				10/06/2009	Y	N	N		-	DCD_06.02.02-35	-	2
		354	06.02.02-36	2009/7/7	Y	Y	N		-	DCD_06.02.02-36	-	2
				10/06/2009	Y	N	N		-	DCD_06.02.02-36	-	2
		354	06.02.02-37	2009/7/7	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		354	06.02.02-38	2009/7/7	Y	N	N		-	DCD_06.02.02-38	-	2
		354	06.02.02-39	2009/7/7	N	N	N		-	-	N/A	N/A
		354	06.02.02-40	2009/7/7	Y	N	N		-	DCD_06.02.02-40	4	2
		354	06.02.02-41	2009/7/7	Y	N	N		-	DCD_06.02.02-41	-	2
		354	06.02.02-42	2009/7/7	Y	N	N		-	DCD_06.02.02-42	4	2
		354	06.02.02-43	2009/7/7	Y	N	N		-	DCD_06.02.02-43	4	2
		354	06.02.02-44	2009/7/17	Y	N	N		-	DCD_06.02.02-44	TBD	
		366	06.02.02-45	2009/6/11	N	N	N		-	-	N/A	N/A
		366	06.02.02-46	2009/6/11	Y	N	N		-	DCD_06.02.02-46	3	2
		366	06.02.02-47	2009/6/11	N	N	N		-	-	N/A	N/A
		366	06.02.02-48	2009/6/11	N	N	N		-	-	N/A	N/A
		366	06.02.02-49	2009/6/11	N	N	N		-	-	N/A	N/A
		366	06.02.02-50	2009/6/11	N	N	N		-	-	N/A	N/A
		366	06.02.02-51	2009/6/11	N	N	N		-	-	N/A	N/A
		422	06.02.02-52	2010/1/21	N	N	N		-	-	N/A	N/A
		466	06.02.02-53	2009/11/24	N	N	N		-	-	N/A	N/A
		466	06.02.02-54	2009/11/24	N	N	N		-	-	N/A	N/A
		466	06.02.02-55	2009/11/24	Y	N	N		-	DCD_06.02.02-55	TBD	
		631	06.02.02-56	2010/10/21	N	N	N			-	N/A	N/A
		631	06.02.02-57	2010/10/21	N	N	N			-	N/A	N/A
		637	06.02.02-58	2010/10/21	N	N	N		-	-	N/A	N/A
		637	06.02.02-59	2010/10/21	N	N	N		-	-	N/A	N/A
		637	06.02.02-60	2010/10/21	Y	N	N				TBD	
		645	06.02.02-61	2010/11/10	N	N	N		-	-	N/A	N/A
		652	06.02.02-62	2010/11/30	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL 6.2(9) deleted	MAP-06-007	4	2
		736	06.02.02-63	2011/6/21	Y	N	N		-	DCD_06.02.02-63	0	
				2011/7/13	Y	N	N		-		0	
		740	06.02.02-64	2011/6/14	Y	N	N		-	DCD_06.02.02-64	0	
				2011/8/31	Y	N	N		-		1	
		746	06.02.02-65	2011/6/7	N	N	N		-	-	N/A	N/A
		836	06.02.02-66	11/11/2011	Y	N	N		-	DCD_06.02.02-66	1	
		836	06.02.02-67	11/11/2011	Y	N	N		-	DCD_06.02.02-67	1	
		836	06.02.02-68	11/11/2011	N	N	N		-	-	N/A	N/A
		840	06.02.02-74	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-75	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-76	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-77	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-78	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-79	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-80	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-81	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-82	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-83	11/22/2011	N	N	N			-	N/A	N/A
		840	06.02.02-84	11/22/2011	Y	N	N			DCD_06.02.02-84	1	
		840	06.02.02-85	11/22/2011	N	N	N			-	N/A	N/A
		857	06.02.02-86	11/22/2011	N	N	N			-	N/A	N/A
6.2.4	Containment Isolation System	57	06.02.04-1	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-2	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-3	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-4	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-5	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-5	1	2
		57	06.02.04-6	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-7	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-8	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-8	1	2

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		57	06.02.04-9	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-9	1	2
		57	06.02.04-10	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-11	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-12	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-13	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-14	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-15	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-16	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-16	1	2
		57	06.02.04-17	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-18	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-18	1	2
		57	06.02.04-19	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-19	1	2
		57	06.02.04-20	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-20	1	2
		57	06.02.04-21	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-21	1	2
		57	06.02.04-22	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-22	1	2
		57	06.02.04-23	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-23	1	2
		57	06.02.04-24	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-25	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-26	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-27	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-28	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-29	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-30	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-31	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-31	1	2
		57	06.02.04-32	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		57	06.02.04-33	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-33	1	2
		57	06.02.04-34	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-34	1	2
		57	06.02.04-35	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-35	1	2
		57	06.02.04-36	2008/9/22	Y	N	N	fin.	-	DCD_06.02.04-36	1	2
		279	06.02.04-37	2009/4/8	Y	N	N		-	DCD_06.02.04-37	3	2
		279	06.02.04-38	2009/4/8	Y	N	N		-	DCD_06.02.04-38	3	2
		279	06.02.04-39	2009/4/8	Y	N	N		-	DCD_06.02.04-39	3	2
		279	06.02.04-40	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-41	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-42	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-43	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-44	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-45	2009/4/8	N	N	N		-	-	N/A	N/A
		279	06.02.04-46	2009/4/8	Y	N	N		-	DCD_06.02.04-46	3	2
		279	06.02.04-47	2009/4/8	Y	N	N		-	DCD_06.02.04-47	3	2
		279	06.02.04-48	2009/4/8	Y	N	N		-	DCD_06.02.04-48	3	2
		279	06.02.04-49	2009/4/8	Y	N	N		-	DCD_06.02.04-49	3	2
		376	06.02.04-50	2009/6/16	Y	Y	N		-	DCD_06.02.04-50	4	2
		451	06.02.04-51	2009/9/29	Y	N	N		-	DCD_06.02.04-51	-	2
		451	06.02.04-52	2009/9/29	Y	N	N		-	DCD_06.02.04-52	-	2
		553	06.02.04-53	2010/4/19	Y	N	N		-	DCD_06.02.04-53	3	3
		553	06.02.04-54	2010/4/19	Y	N	N		-	DCD_06.02.04-54	3	3
		-	-	-	-	-	-	-	COL 6.2(6) deleted	MAP-06-008	-	2
		729	06.02.04-55	2011/6/16	Y	N	N	-	-	DCD_06.02.04-55	0	
		790	06.02.04-56	2011/9/1	N	N	N		-	-	N/A	N/A
6.2.5	Combustible Gas Control	62	06.02.05-1	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
	in Containment	62	06.02.05-2	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-3	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-4	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-5	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-6	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-7	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-8	2008/10/1	Y	Y	N	fin.	-			
				2009/1/9	Y	N	N	fin.	-	DCD_06.02.05-8	1	2
		62	06.02.05-9	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-10	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-11	2008/10/1	N	N	N	fin.	-			
				2009/1/9	Y	Y	N	fin.	-	DCD_06.02.05-11	1	2
		62	06.02.05-12	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-13	2008/10/1	N	N	N	fin.	-	-	N/A	N/A

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		62	06.02.05-14	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-15	2008/10/1	N	N	N	fin.	-			
				2009/1/9	Y	N	N	fin.	-	DCD_06.02.05-15	1	2
		62	06.02.05-16	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-17	2008/10/1	Y	N	N	fin.	-	DCD_06.02.05-17	-	2
		62	06.02.05-18	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-19	2008/10/1	N	N	N	fin.	-	-	N/A	N/A
		62	06.02.05-20	2008/10/1	Y	N	N	fin.	-	DCD_06.02.05-20	1	2
		62	06.02.05-21	2008/10/1	Y	N	N	fin.	-	DCD_06.02.05-21	1	2
		270	06.02.05-22	2009/6/5	Y	N	N		-	DCD_06.02.05-22	3	2
		270	06.02.05-23	2009/6/5	Y	N	N		-	DCD_06.02.05-23	3	2
		270	06.02.05-24	2009/6/5	Y	N	N		-	DCD_06.02.05-24	-	2
		270	06.02.05-25	2009/6/5	Y	N	N		-	DCD_06.02.05-25	-	2
		270	06.02.05-26	2009/6/5	Y	N	N		-	DCD_06.02.05-26	3	2
		270	06.02.05-27	2009/6/5	Y	N	N		-	DCD_06.02.05-27	3	2
		270	06.02.05-28	2009/6/5	Y	N	N		-	DCD_06.02.05-28	3	2
		270	06.02.05-29	2009/6/5	Y	N	N		-	DCD_06.02.05-29	3	2
		270	06.02.05-30	2009/6/5	Y	N	N		-	DCD_06.02.05-30	3	2
		270	06.02.05-31	2009/6/5	Y	N	N		-	DCD_06.02.05-31	3	2
		270	06.02.05-32	2009/6/5	Y	N	N		-	DCD_06.02.05-32	-	2
		270	06.02.05-33	2009/6/5	Y	N	N		-	DCD_06.02.05-33	3	2
		270	06.02.05-34	2009/6/5	Y	N	N		-	DCD_06.02.05-34	3	2
		471	6.2.5-35	11/6/2009	Y	N	N		-	DCD_6.2.5-35	0	3
		471	6.2.5-36	2010/5/28	N	N	N		-	-	N/A	N/A
		551	6.2.5-37	2010/4/20	Y	N	N		-	DCD_6.2.5-37	3	3
		551	6.2.5-38	2010/4/20	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL 6.2(7) deleted	MAP-06-009	1	2
		635	6.2.5-39	2010/10/20	Y	N	N		-	DCD_6.2.5-39	6	3
		635	6.2.5-40	2010/10/20	Y	N	N		-	DCD_6.2.5-40	6	3
		696	6.2.5-41	2011/3/7	Y	N	N		-	DCD_6.2.5-41	0	
		748	6.2.5-42	2011/5/27	N	N	N		-	-	N/A	N/A
		751	6.2.5-43	2011/6/3	Y	N	N		-	DCD_6.2.5-43	0	
		803	06.02.05-44	9/9/2011	Y	N	N		-	DCD_6.2.5-44	1	
		803	06.02.05-45	9/9/2011	Y	Y	Y		-	DCD_6.2.5-45	1	
6.2.6	Containment Leakage Testing	50	06.02.06-1	2008/9/17	N	N	N	fin.	-	-	N/A	N/A
		50	06.02.06-2	2008/9/17	N	N	N	fin.	-			
				2009/1/9	Y	Y	N	fin.	-	DCD_06.02.06-2	1	2
		50	06.02.06-3	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-3	-	2
		50	06.02.06-4	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-4	3	2
		50	06.02.06-5	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-5	3	2
		50	06.02.06-6	2008/9/17	N	N	N	fin.	-	-	N/A	N/A
		50	06.02.06-7	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-7	3	2
		50	06.02.06-8	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-8	3	2
		50	06.02.06-9	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-9	1	2
		50	06.02.06-10	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-10	-	2
		50	06.02.06-11	2008/9/17	N	N	N	fin.	-	-	N/A	N/A
		50	06.02.06-12	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-12	-	2
		50	06.02.06-13	2008/9/17	Y	N	N	fin.	-	DCD_06.02.06-13	2	2
		267	06.02.06-14	2009/4/6	Y	N	N		-	DCD_06.02.06-14	3	2
		267	06.02.06-15	2009/4/6	Y	N	N		-	DCD_06.02.06-15	3	2
		267	06.02.06-16	2009/4/6	Y	N	N		-	DCD_06.02.06-16	3	2
		267	06.02.06-17	2009/4/6	Y	N	N		-	DCD_06.02.06-17	3	2
		267	06.02.06-18	2009/4/6	Y	N	N		-	DCD_06.02.06-18	3	2
		267	06.02.06-19	2009/4/6	N	N	N		-	-	N/A	N/A
		267	06.02.06-20	2009/4/6	-	-	-	-	-	Question Deleted	-	-
		267	06.02.06-21	2009/4/6	N	N	N		-	-	N/A	N/A
		267	06.02.06-22	2009/4/6	N	N	N		-	-	N/A	N/A
		472	06.02.06-23	2009/11/13	Y	N	N		-	DCD_06.02.06-23	1	3
		472	06.02.06-24	2009/11/13	Y	N	N		-	DCD_06.02.06-24	1	3
		472	06.02.06-25	2009/11/13	N	N	N		-	-	N/A	N/A
		472	06.02.06-26	2009/11/27	Y	N	N		-	DCD_06.02.06-26	1	3
		472	06.02.06-27	2009/11/27	Y	N	N		-	DCD_06.02.06-27	1	3
		552	06.02.06-28	2010/4/16	N	N	N		-	-	N/A	N/A

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		552	06.02.06-29	2010/4/16	N	N	N		-	-	N/A	N/A
		552	06.02.06-30	2010/4/16	Y	N	N		-	DCD_06.02.06-30	3	3
		-	-	-	-	-	-	-	COL 6.2(8) revised	MAP-06-010	-	2
		648	06.02.06-31	2010/11/11	Y	N	N		-	DCD_06.02.06-31	6	3
		648	06.02.06-32	2010/11/11	Y	N	N		-	DCD_06.02.06-32	6	3
		648	06.02.06-33	2010/11/11	Y	N	N		-	DCD_06.02.06-33	6	3
6.2.7	Fracture Prevention	347	06.02.07-1	2009/6/11	Y	Y	N		-	DCD_06.02.07-1	-	2
6.2.7	of											
	Containment Pressure Boundary											
6.3	Emergency Core Cooling System	391	06.03-1	2009/7/27	Y	N	N		-	DCD_06.03-1	4	2
		391	06.03-2	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-3	2009/7/27	Y	N	N		-	DCD_06.03-3	4	2
		391	06.03-4	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-5	2009/7/27	Y	N	N		-	DCD_06.03-5	4	2
		391	06.03-6	2009/7/27	Y	N	N		-	DCD_06.03-6	4	2
		391	06.03-7	2009/7/27	Y	N	N		-	DCD_06.03-7	4	2
		391	06.03-8	2009/7/27	Y	N	N		-	DCD_06.03-8	4	2
		391	06.03-9	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-10	2009/7/27	Y	N	N		-	DCD_06.03-10	4	2
		391	06.03-11	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-12	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-13	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-14	2009/7/27	Y	N	N		-	DCD_06.03-14	4	2
		391	06.03-15	2009/7/27	Y	N	N		-	DCD_06.03-15	4	2
		391	06.03-16	2009/7/27	Y	N	N		-	DCD_06.03-16	4	2
		391	06.03-17	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-18	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-19	2009/7/27	Y	N	N		-	DCD_06.03-19	4	2
		391	06.03-20	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-21	2009/7/27	Y	N	N		-	DCD_06.03-21	4	2
		391	06.03-22	2009/7/27	Y	N	N		-	DCD_06.03-22	4	2
		391	06.03-23	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-24	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-25	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-26	2009/7/27	Y	N	N		-	DCD_06.03-26	4	2
		391	06.03-27	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-28	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-29	2009/7/27	Y	N	N		-	DCD_06.03-29	4	2
		391	06.03-30	2009/7/27	Y	N	N		-	DCD_06.03-30	4	2
		391	06.03-31	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-32	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-33	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-34	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-35	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-36	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-37	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-38	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-39	2009/7/27	Y	N	N		-	DCD_06.03-39	4	2
		391	06.03-40	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-41	2009/7/27	Y	N	N		-	DCD_06.03-41	4	2
		391	06.03-42	2009/7/27	Y	N	N		-	DCD_06.03-42	4	2
		391	06.03-43	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-44	2009/7/27	Y	N	N		-	DCD_06.03-44	4	2
		391	06.03-45	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-46	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-47	2009/7/27	Y	N	N		-	DCD_06.03-47	4	2
		391	06.03-48	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-49	2009/7/27	Y	N	N		-	DCD_06.03-49	4	2
		391	06.03-50	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-51	2009/7/27	Y	N	N		-	DCD_06.03-51	4	2
		391	06.03-52	2009/7/27	Y	N	N		-	DCD_06.03-52	4	2
		391	06.03-53	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-54	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-55	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-56	2009/7/27	N	N	N		-	-	N/A	N/A
		391	06.03-57	2009/7/27	Y	N	N		-	DCD_06.03-57	4	2
		391	06.03-58	2009/7/27	Y	N	N		-	DCD_06.03-58	4	2

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		407	06.03-59	2009/8/5	Y	Y	N		-	DCD_06.03-59	4	2
		407	06.03-60	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-61	2009/8/5	Y	Y	N		-	DCD_06.03-61	4	2
		407	06.03-62	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-63	2009/8/5	N	N	N		-	-	N/A	N/A
				2009/9/28	N	N	N		-	-	N/A	N/A
		407	06.03-64	2009/8/5	Y	N	N		-	DCD_06.03-64	4	2
		407	06.03-65	2009/8/5	Y	N	N		-	DCD_06.03-65	4	2
		407	06.03-66	2009/8/5	Y	N	N		-	DCD_06.03-66	4	2
		407	06.03-67	2009/8/5	Y	N	N		-	DCD_06.03-67	4	2
		407	06.03-68	2009/8/5	Y	N	N		-	DCD_06.03-68	4	2
		407	06.03-69	2009/8/5	Y	N	N		-	DCD_06.03-69	4	2
		407	06.03-70	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-71	2009/8/5	Y	N	N		-	DCD_06.03-71	4	2
		407	06.03-72	2009/8/5	Y	N	N		-	DCD_06.03-72	4	2
		407	06.03-73	2009/8/5	Y	N	N		-	DCD_06.03-73	-	2
		407	06.03-74	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-75	2009/8/5	Y	N	N		-	DCD_06.03-75	4	2
		407	06.03-76	2009/8/5	Y	N	N		-	DCD_06.03-76	4	2
		407	06.03-77	2009/8/5	Y	N	N		-	DCD_06.03-77	4	2
		407	06.03-78	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-79	2009/8/5	Y	N	N		-	DCD_06.03-79	4	2
		407	06.03-80	2009/8/5	Y	Y	N		-	DCD_06.03-80	4	2
		407	06.03-81	2009/8/5	Y	N	N		-	DCD_06.03-81	4	2
		407	06.03-82	2009/8/5	N	N	N		-	-	N/A	N/A
		407	06.03-83	2009/8/5	N	N	N		-	-	N/A	N/A
		597	06.03-84	2010/7/8	N	N	N		-	-	N/A	N/A
		597	06.03-85	2010/7/8	N	N	N		-	-	N/A	N/A
		597	06.03-86	2010/7/8	N	N	N		-	-	N/A	N/A
		597	06.03-84	2010/7/8	N	N	N		-	-	N/A	N/A
		597	06.03-85	2010/7/8	N	N	N		-	-	N/A	N/A
		597	06.03-86	2010/7/8	N	N	N		-	-	N/A	N/A
		626	06.03-87	2010/10/14	N	N	N		-	-	N/A	N/A
		695	06.03-88	2011/3/18	Y	N	N		-	DCD_06.03-88	0	
		695	06.03-89	2011/3/18	N	N	N		-	-	N/A	N/A
		695	06.03-90	2011/3/18	N	N	N		-	-	N/A	N/A
		695	06.03-91	2011/3/18	Y	N	N		-	DCD_06.03-91	0	
		695	06.03-92	2011/3/18	Y	N	N		-	DCD_06.03-92	TBD	
		695	06.03-93	2011/3/18	N	N	N		-	-	N/A	N/A
		695	06.03-94	2011/3/18	N	N	N		-	-	N/A	N/A
		695	06.03-95	2011/3/18	Y	N	N		-	DCD_06.03-95	0	
		695	06.03-96	2011/3/18	N	N	N		-	-	N/A	N/A
		695	06.03-97	2011/3/18	N	N	N		-	-	N/A	N/A
		716	06.03-98	2011/3/24	N	N	N		-	-	N/A	N/A
		716	06.03-99	2011/3/24	N	N	N		-	-	N/A	N/A
		737	06.03-100	2011/5/30	N	N	N		-	-	N/A	N/A
		737	06.03-101	2011/5/30	N	N	N		-	-	N/A	N/A
		815	06.03-102	2011/9/22	N	N	N		-	-	N/A	N/A
6.4	Control Room Habitability System	26	06.04-1	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		26	06.04-2	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-1	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-2	2008/9/16	Y	N	N	fin.	-	DCD_06.04-2	1	2
		49	06.04-3	2008/9/16	Y	N	N	fin.	-	DCD_06.04-3	1	2
		99	06.04-3	2008/12/8	Y	N	N	fin.	-			
		49	06.04-4	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-5	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-6	2008/9/16	Y	N	N	fin.	-	DCD_06.04-6	1	2
		49	06.04-7	2008/9/16	Y	N	N	fin.	-	DCD_06.04-7	3	2
		49	06.04-8	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-9	2008/9/16	Y	N	N	fin.	-	DCD_06.04-9	(1)	2
		473		11/13/2009	Y	N	N		-	DCD_06.04-9	0	3
		49	06.04-10	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-11	2008/9/16	Y	N	N	fin.	-	DCD_06.04-11	1	2
		49	06.04-12	2008/9/16	Y	N	N	fin.	-	DCD_06.04-12	1	2
		49	06.04-13	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-14	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-15	2008/9/16	Y	N	N	fin.	-	DCD_06.04-15	1	2

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		49	06.04-16	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-17	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-18	2008/9/16	Y	Y	N	fin.	-	-		
				2009/1/9	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-19	2008/9/16	Y	N	N	fin.	-	DCD_06.04-19	1	2
		49	06.04-20	2008/9/16	Y	N	N	fin.	-	DCD_06.04-20	1	2
		49	06.04-21	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-22	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		49	06.04-23	2008/9/16	Y	N	N	fin.	-	DCD_06.04-23	1	2
		49	06.04-24	2008/9/16	N	N	N	fin.	-	-	N/A	N/A
		338	06.04-4	2009/6/17	N	N	N		-	-	N/A	N/A
		338	06.04-5	2009/6/17	Y	N	N		-	DCD_06.04-5	3	2
		338	06.04-6A	2009/6/17	Y	N	N		-	DCD_06.04-6A	3	2
		338	06.04-7A	2009/6/17	Y	N	N		-	DCD_06.04-7A	3	2
		338	06.04-8	2009/6/17	Y	N	N		-	DCD_06.04-8	-	2
		501	06.04-10	2010/1/21	N	N	N		-	-	N/A	N/A
		-	-	-	-	-	-	-	COL 6.4(2) revised	MAP-06-014	1	2
		-	-	-	-	-	-	-	COL 6.4(4) deleted	MAP-06-015	1	2
		559	06.04-11	2010/5/20	Y	N	N		-	DCD_06.04-11	4	3
		559	06.04-12	2010/5/20	Y	N	N		-	DCD_06.04-12	4	3
		559	06.04-13	2010/5/20	Y	N	N		-	DCD_06.04-13	4	3
		691	06.04-14	2011/3/9	Y	N	N		-	DCD_06.04-14	0	
6.5.1	ESF Atmosphere Cleanup Systems	73	06.05.01-1/6.5.1-1	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-1	4	2
		73	06.05.01-1/6.5.1-2	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-3	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-4	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-5	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-5	4	2
		73	06.05.01-1/6.5.1-6	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-6	-	2
		73	06.05.01-1/6.5.1-7	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-7	4	2
		73	06.05.01-1/6.5.1-8	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-9	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-10	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-11	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-12	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-12	4	2
		73	06.05.01-1/6.5.1-13	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-13	4	2
		73	06.05.01-1/6.5.1-14	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-14	4	2
		73	06.05.01-1/6.5.1-15	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-16	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-16	4	2
		73	06.05.01-1/6.5.1-17	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-17	4	2
		73	06.05.01-1/6.5.1-18	2008/10/24	Y	N	N	fin.	-	DCD_06.05.01-18	4	2
		73	06.05.01-1/6.5.1-19	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		73	06.05.01-1/6.5.1-20	2008/10/24	N	N	N	fin.	-	-	N/A	N/A
		300	06.05.01-3	2009/5/15	Y	N	N		-	DCD_06.05.01-3	-	2
		300	06.05.01-4	2009/5/15	Y	N	N		-	DCD_06.05.01-4	4	2
		300	06.05.01-5	2009/5/15	Y	N	N		-	DCD_06.05.01-5	4	2
		300	06.05.01-6	2009/5/15	N	N	N		-	-	N/A	N/A
		300	06.05.01-7	2009/5/15	Y	N	N		-	DCD_06.05.01-7	4	2
		449	06.05.01-8	2009/9/29	Y	N	N		-	DCD_06.05.01-8	-	2
		558	06.05.01-9	2010/5/27	Y	N	N		-	DCD_06.05.01-9	4	3
		558	06.05.01-10	2010/4/22	N	N	N		-	-	N/A	N/A
		558	06.05.01-11	2010/4/22	Y	N	N		-	DCD_06.05.01-11	3	3
		558	06.05.01-12	2010/4/22	Y	N	N		-	DCD_06.05.01-12	3	3
		558	06.05.01-13	2010/4/22	Y	N	N		-	DCD_06.05.01-13	3	3
		558	06.05.01-14	2010/4/22	Y	N	N		-	DCD_06.05.01-14	3	3
		558	06.05.01-15	2010/4/22	Y	N	N		-	DCD_06.05.01-15	3	3
		558	06.05.01-16	2010/5/27	Y	N	N		-	DCD_06.05.01-16	4	3
		558	06.05.01-17	2010/5/27	Y	N	N		-	DCD_06.05.01-17	4	3
		558	06.05.01-18	2010/4/22	Y	N	N		-	DCD_06.05.01-18	3	3
		-	-	-	-	-	-	-	COL 6.5(4) deleted	MAP-06-016	2	2
		615	06.05.01-19	2010/9/29	Y	N	N		-	DCD_06.05.01-19	5	3
		615	06.05.01-20	2010/9/29	Y	N	N		-	DCD_06.05.01-20	5	3
		826	06.05.01-21	2011/10/6	Y	N	N		-	DCD_06.05.01-21	1	
		826	06.05.01-22	2011/10/6	Y	N	N		-	DCD_06.05.01-22	1	
6.5.2	Containment Spray	234	06.05.02-1	2009/4/22	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
	as a Fission Product	234	06.05.02-2	2009/3/24	N	N	N		-	-	N/A	N/A
	Cleanup System	234	06.05.02-3	2009/4/22	N	N	N		-	-	N/A	N/A
		234	06.05.02-4	2009/3/24	N	N	N		-	-	N/A	N/A
		416	06.05.02-5	2009/7/28	N	N	N		-	-	N/A	N/A
		416	06.05.02-6	2009/7/28	Y	N	N		-	DCD_06.05.02-6	-	2
		460	06.05.02-7	11/13/2009	N	N	N		-	-	N/A	N/A
		517	06.05.02-8	2010/2/25	N	N	N		-	-	N/A	N/A
		715	06.05.02-9	2011/4/18	N	N	N		-	-	N/A	N/A
		794	06.05.02-10	8/31/2011	N	N	N		-	-	N/A	N/A
		794	06.05.02-11	8/31/2011	N	N	N		-	-	N/A	N/A
		794	06.05.02-12	8/31/2011	N	N	N		-	-	N/A	N/A
		794	06.05.02-13	8/31/2011	N	N	N		-	-	N/A	N/A
6.5.3	Fission Product	37	06.05.03-1	2008/9/5	Y	N	N	fin.	-	DCD_06.05.03-1	1	2
	Control Systems and Structures	83	06.05.03-2	2008/11/7	N	N	N	fin.	-	-	N/A	N/A
	Fission Product											
6.5.5	Pressure Suppression Pool											
	as a											
	Fission Product Cleanup System											
6.6	Inservice Inspection and Testing	232	06.06-1	2009/3/26	Y	N	N		-	DCD_06.06-1	2	2
	of Class 2 and 3 Components											
		-	-	-	-	-	-	-	COL 6.6(1) revised	MAP-06-017	-	2
		-	-	-	-	-	-	-	COL 6.6(2) revised	MAP-06-018	4	2
6.6.2	Inservice Inspection and Testing	233	06.06-2	2009/4/16	Y	N	N		-	DCD_06.06-2	3	2
	of Class 2 and 3 Components											
6.6.3	Inservice Inspection and Testing	241	06.06-3	2009/4/16	Y	N	N		-	DCD_06.06-3	3	2
	of Class 2 and 3 Components											
6.6.4	Inservice Inspection and Testing	258	06.06-4	2009/4/16	Y	N	N		-	DCD_06.06-4	3	2
6.6.4	Inservice Inspection and Testing											
	of Class 2 and 3 Components											

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
7.1	Instrumentation and Controls --	244	07-14-1	2009/4/1	N	N	N		-	-	N/A	N/A
	Introduction	244	07-14-2	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-3	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-4	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-5	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-6	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-7	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-8	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-9	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-10	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-11	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-12	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-13	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-14	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-15	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-16	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-17	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-18	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-19	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-20	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-21	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-22	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-23	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-24	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-25	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-26	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-27	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-28	2009/4/1	N	N	N		-	-	N/A	N/A
		244	07-14-29	2009/4/1	N	N	N		-	-	N/A	N/A
		229	07.01-1	2009/4/28	Y	N	N		-	DCD_07.01-1	3	2
		229	07.01-2	2009/4/28	Y	N	N		-	DCD_07.01-2	3	2
		229	07.01-3	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-4	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-5	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-6	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-7	2009/4/28	Y	N	N		-	DCD_07.01-7	3	2
		229	07.01-8	2009/4/28	Y	N	N		-	DCD_07.01-8	3	2
		229	07.01-9	2009/4/28	Y	N	N		-	DCD_07.01-9	3	2
		229	07.01-10	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-11	2009/4/28	Y	N	N		-	DCD_07.01-11	3	2
		229	07.01-12	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-13	2009/4/28	Y	N	N		-	DCD_07.01-13	3	2
		229	07.01-14	2009/4/28	Y	N	N		-	DCD_07.01-14	3	2
		229	07.01-15	2009/4/28	Y	N	N		-	DCD_07.01-15	3	2
		229	07.01-16	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-17	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-18	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-19	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-20	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-21	2009/4/28	Y	N	N		-	DCD_07.01-21	3	2
		229	07.01-22	2009/4/28	N	N	N		-	-	N/A	N/A
		229	07.01-23	2009/4/28	N	N	N		-	-	N/A	N/A
		516	07.01-C Appendix-1	2010/2/15	N	N	N		-	-	N/A	N/A
		680	07.01-24	XX/YY/2011								
		692	07.01-25	2011/4/28	Y	N	N		-	DCD_07.01-25	0	
		698	07.01-26	2011/4/28	Y	N	N		-	DCD_07.01-26	0	
		705	07.01-27	5/31/2011	Y	N	N		-	DCD_07.01-27	0	
		720	07.01-28	2011/4/28	Y	N	N		-	DCD_07.01-26	0	
		722	07.01-29	5/31/2011	Y	N	N		-	DCD_07.01-29	0	
		722	07.01-30	5/31/2011	Y	N	N		-	DCD_07.01-30	0	
		730	07.01-31	5/31/2011	N	N	N		-	-	N/A	N/A
		730	07.01-32	5/31/2011	N	N	N		-	-	N/A	N/A
		731	07.01-33	5/31/2011	N	N	N		-	-	N/A	N/A
		732	07.01-34	5/31/2011	N	N	N		-	-	N/A	N/A
		733	07.01-35	5/31/2011	N	N	N		-	-	N/A	N/A
				8/12/2011	Y	N	N		-	DCD_07.01-35	1	
		733	07.01-36	5/31/2011	N	N	N		-	-	N/A	N/A
		734	07.01-37	5/31/2011	N	N	N		-	-	N/A	N/A
				10/04/2011	N	N	N		-	-	N/A	N/A
		734	07.01-38	5/31/2011	N	N	N		-	-	N/A	N/A
				10/04/2011	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		734	07.01-39	5/31/2011	N	N	N		-	-	N/A	N/A
				10/04/2011	N	N	N		-	-	N/A	N/A
		771	07.01-40	8/1/2011	N	N	N		-	-	N/A	N/A
		771	07.01-41	8/1/2011	N	N	N		-	-	N/A	N/A
		771	07.01-42	8/1/2011	Y	N	N		-	DCD_07.01-42	1	
		771	07.01-43	8/1/2011	N	N	N		-	-	N/A	N/A
7.2	Reactor Trip System	226	07.02-1	2009/4/28	Y	N	N		-	DCD_07.02-1	3	2
		226	07.02-2	2009/4/28	N	N	N		-	-	N/A	N/A
		672	07.02-3	2011/1/7	Y	N	N		-	DCD_07.02-3	TBD	
				2011/5/31	Y	N	N		-		0	
				2011/7/1	Y	N	N		-		0	
		672	07.02-4	2011/1/7	Y	N	N		-	DCD_07.02-4	TBD	
		727	07.02-5	5/31/2011	Y	N	N		-	DCD_07.02-5	0	
		727	07.02-6	5/31/2011	N	N	N		-	-	N/A	N/A
				2011/7/1	N	N	N		-	-	N/A	N/A
				2011/5/31	N	N	N		-	-	N/A	N/A
		727	07.02-7	5/31/2011	Y	N	N		-	DCD_07.02-7	0	
7.3	Engineered Safety	230	07.03-1	2009/4/28	Y	N	N		-	DCD_07.03-1	3	2
	Features Systems	230	07.03-2	2009/4/28	Y	N	N		-	DCD_07.03-2	3	2
		230	07.03-3	2009/4/28	Y	N	N		-	DCD_07.03-3	3	2
		230	07.03-4	2009/4/28	Y	N	N		-	DCD_07.03-4	3	2
		230	07.03-5	2009/4/28	Y	N	N		-	DCD_07.03-5	3	2
		230	07.03-6	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-7	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-8	2009/4/28	Y	N	N		-	DCD_07.03-8	3	2
		230	07.03-9	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-10	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-11	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-12	2009/4/28	Y	N	N		-	DCD_07.03-12	3	2
		230	07.03-13	2009/4/28	N	N	N		-	-	N/A	N/A
		230	07.03-14	2009/4/28	Y	N	N		-	DCD_07.03-14	3	2
		230	07.03-15	2009/4/28	N	N	N		-	-	N/A	N/A
7.4	Safe Shutdown Systems	227	07.04-1	2009/4/28	Y	N	N		-	DCD_07.04-1	3	2
		227	07.04-2	2009/4/28	Y	N	N		-	DCD_07.04-2	3	2
		227	07.04-3	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-4	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-5	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-6	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-7	2009/4/28	Y	N	N		-	DCD_07.04-7	3	2
		227	07.04-8	2009/4/28	Y	N	N		-	DCD_07.04-8	3	2
		227	07.04-9	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-10	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-11	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-12	2009/4/28	Y	N	N		-	DCD_07.04-12	3	2
		227	07.04-13	2009/4/28	Y	N	N		-	DCD_07.04-13	3	2
		227	07.04-14	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-15	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-16	2009/4/28	Y	N	N		-	DCD_07.04-16	3	2
		227	07.04-17	2009/4/28	Y	N	N		-	DCD_07.04-17	3	2
		227	07.04-18	2009/4/28	N	N	N		-	-	N/A	N/A
		227	07.04-19	2009/4/28	N	N	N		-	-	N/A	N/A
		671	07.04-20	2010/12/28	Y	N	N		-	DCD_07.04-20	0	
		671	07.04-21	2010/12/28	Y	N	N		-	DCD_07.04-21	0	
		671	07.04-22	2010/12/28	Y	N	N		-	DCD_07.04-22	0	
7.5	Information Systems	238	07.05-1	2009/4/28	Y	N	N		-	DCD_07.05-1	3	2
	Important to Safety	238	07.05-2	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-3	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-4	2009/4/28	Y	N	N		-	DCD_07.05-4	3	2
		238	07.05-5	2009/4/28	Y	N	N		-	DCD_07.05-5	3	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		238	07.05-6	2009/4/28	Y	N	N		-	DCD_07.05-6	3	2
		238	07.05-7	2009/4/28	Y	N	N		-	DCD_07.05-7	3	2
		238	07.05-8	2009/4/28	Y	N	N		-	DCD_07.05-8	3	2
		238	07.05-9	2009/4/28	Y	N	N		-	DCD_07.05-9	3	2
		238	07.05-10	2009/4/28	Y	N	N		-	DCD_07.05-10	3	2
		238	07.05-11	2009/4/28	Y	N	N		-	DCD_07.05-11	3	2
		238	07.05-12	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-13	2009/4/28	Y	N	N		-	DCD_07.05-13	3	2
		238	07.05-14	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-15	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-16	2009/4/28	N	N	N		-	-	N/A	N/A
		238	07.05-17	2009/4/28	Y	Y	N		-	DCD_07.05-17	3	2
		568	07.05-18	2010/4/28	Y	N	N		-	DCD_07.05-18	3	3
				2011/4/28	Y	N	N		-	DCD_07.05-18	0	
		656	07.05-19	12/16/2010	N	N	N		-	-	N/A	N/A
				5/31/2011	Y	N	N		-	DCD_07.05-19	0	
		656	07.05-20	12/16/2010	N	N	N		-	-	N/A	N/A
				2011/4/8	Y	N	N		-	DCD_07.05-20	0	
7.6	Interlock Systems	239	07.06-1	2009/4/28	Y	N	N		-	DCD_07.06-1	3	2
	Important to Safety	239	07.06-2	2009/4/28	Y	N	N		-	DCD_07.06-2	3	2
		239	07.06-3	2009/4/28	N	N	N		-	-	N/A	N/A
				2011/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-4	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-5	2009/4/28	Y	N	N		-	DCD_07.06-5	3	2
		239	07.06-6	2009/4/28	Y	N	N		-	DCD_07.06-6	3	2
		239	07.06-7	2009/4/28	Y	N	N		-	DCD_07.06-7	3	2
		239	07.06-8	2009/4/28	Y	N	N		-	DCD_07.06-8	3	2
		239	07.06-9	2009/4/28	Y	N	N		-	DCD_07.06-9	3	2
		239	07.06-10	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-11	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-12	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-13	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-14	2009/4/28	Y	N	N		-	DCD_07.06-14	3	2
		239	07.06-15	2009/4/28	N	N	N		-	-	N/A	N/A
		239	07.06-16	2009/4/28	Y	N	N		-	DCD_07.06-16	0	
				2011/4/28	Y	N	N		-	DCD_07.06-17	0	
		638	07.06-17	10/26/2010	Y	N	N		-	DCD_07.06-17	6	3
		638	07.06-18	10/26/2010	Y	N	N		-	DCD_07.06-18	6	3
		638	07.06-19	10/26/2010	Y	N	N		-	DCD_07.06-19	6	3
		638	07.06-20	10/26/2010	N	N	N		-	-	N/A	N/A
		638	07.06-21	10/26/2010	N	N	N		-	-	N/A	N/A
				04/28/2011	Y	N	N		-	DCD_07.06-21	0	
		638	07.06-22	10/26/2010	Y	N	N		-	DCD_07.06-22	6	3
		638	07.06-23	10/26/2010	Y	N	N		-	DCD_07.06-23	6	3
		638	07.06-24	10/26/2010	Y	N	N		-	DCD_07.06-24	6	3
		702	07.06-25	5/31/2011	Y	N	N		-	DCD_07.06-25	0	
		702	07.06-26	5/31/2011	Y	N	N		-	DCD_07.06-26	0	
7.7	Control Systems	240	07.07-1	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-2	2009/4/28	Y	N	N		-	DCD_07.07-2	3	2
		240	07.07-3	2009/4/28	Y	N	N		-	DCD_07.07-3	3	2
		240	07.07-4	2009/4/28	Y	N	N		-	DCD_07.07-4	3	2
		240	07.07-5	2009/4/28	Y	N	N		-	DCD_07.07-5	3	2
		240	07.07-6	2009/4/28	Y	N	N		-	DCD_07.07-6	3	2
		240	07.07-7	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-8	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-9	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-10	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-11	2009/4/28	Y	N	N		-	DCD_07.07-11	3	2
		240	07.07-12	2009/4/28	Y	N	N		-	DCD_07.07-12	3	2
		240	07.07-13	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-14	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-15	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-16	2009/4/28	Y	N	N		-	DCD_07.07-16	3	2
		240	07.07-17	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-18	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-19	2009/4/28	Y	N	N		-	DCD_07.07-19	3	2
		240	07.07-20	2009/4/28	N	N	N		-	-	N/A	N/A

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		240	07.07-21	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-22	2009/4/28	Y	N	N		-	DCD_07.07-22	3	2
		240	07.07-23	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-24	2009/4/28	Y	N	N		-	3DCD_07.07-24	3	2
		240	07.07-25	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-26	2009/4/28	N	N	N		-	-	N/A	N/A
		240	07.07-27	2009/4/28	N	N	N		-	-	N/A	N/A
		655	07.07-28	11/30/2010	N	N	N		-	-	N/A	N/A
		655	07.07-29	11/30/2010	N	N	N		-	-	N/A	N/A
		688	07.07-30	04/28/2011	Y	N	N		-	DCD_07.07-30	0	
		688	07.07-31	04/28/2011	Y	N	N		-	DCD_07.07-31	0	
		688	07.07-32	5/31/2011	Y	N	N		-	DCD_07.07-32	TBD	
				10/11/2011	Y	N	N		-			
7.8	Diverse I&C Systems	228	07.08-1	2009/4/28	Y	N	N		-	DCD_07.08-1	3	2
		228	07.08-2	2009/4/28	N	N	N		-	-	N/A	N/A
		228	07.08-3	2009/4/28	N	N	N		-	-	N/A	N/A
		228	07.08-4	2009/4/28	Y	N	N		-	DCD_07.08-4	3	2
		228	07.08-5	2009/4/28	N	N	N		-	-	N/A	N/A
		677	07.08-6	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
				2011/8/1								
		677	07.08-7	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		677	07.08-8	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		677	07.08-9	2/9/2011	Y	N	N		-	DCD_07.08-9	1	
				2/10/2011	Y	N	N		-	DCD_07.08-9	0	
				5/31/2011	Y	N	N		-	DCD_07.08-9	1	
		677	07.08-10	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		677	07.08-11	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				2011/4/28								
				201/5/31								
				2011/8/12								
		677	07.08-12	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
				8/12/2011								
		677	07.08-13	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		677	07.08-14	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		677	07.08-15	2/9/2011	N	N	N		-	-	N/A	N/A
				2/10/2011								
				5/31/2011								
		700	07.08-16	2011/4/28	Y	N	N		-	DCD_07.08-16	0	
				2011/5/31					-			
		753	07.08-17	9/30/2011	Y	N	N		-	DCD_07.08-17	1	
		753	07.08-18	9/30/2011	N	N	N		-	-	N/A	N/A
		753	07.08-19	9/30/2011	N	N	N		-	-	N/A	N/A
		753	07.08-20	9/30/2011	N	N	N		-	-	N/A	N/A
		753	07.08-21	9/30/2011	N	N	N		-	-	N/A	N/A
		753	07.08-22	9/30/2011	N	N	N		-	-	N/A	N/A
		775	07.08-23	9/13/2011	Y	N	N		-	DCD_07.08-23	1	
				11/29/2011	Y	N	N		-	DCD_07.08-23	TBD	
		775	07.08-24	9/13/2011	Y	N	N		-	DCD_07.08-24	1	
				11/29/2011	Y	N	N		-	DCD_07.08-24	1	
		829	07.08-25	11/29/2011	Y	N	N		-	DCD_07.08-25	1	
7.9	Data Communication Systems	277	8455/7/9	2009/3/31	N	N	N		-	-	N/A	N/A
		277	8456/7/9	2009/3/31	N	N	N		-	-	N/A	N/A
		277	8457/7/9	2009/3/31	N	N	N		-	-	N/A	N/A
		231	07.09-1	2009/4/28	Y	N	N		-	DCD_07.09-1	3	2

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		231	07.09-2	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-3	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-4	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-5	2009/4/28	Y	N	N		-	DCD_07.09-5	3	2
		231	07.09-6	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-7	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-8	2009/4/28	Y	N	N		-	DCD_07.09-8	3	2
		231	07.09-9	2009/4/28	N	N	N		-	-	N/A	N/A
		231	07.09-10	2009/4/28	Y	N	N		-	DCD_07.09-10	3	2
		231	07.09-11	2009/4/28	Y	N	N		-	DCD_07.09-11	3	2
		231	07.09-12	2009/4/28	N	N	N		-	-	N/A	N/A
				5/31/2011	Y	N	N		-	DCD_07.09-12	0	
		231	07.09-13	2009/4/28	Y	N	N		-	DCD_07.09-13	3	2
		231	07.09-14	2009/4/28	Y	N	N		-	DCD_07.09-14	3	2
		231	07.09-15	2009/4/28	Y	N	N		-	DCD_07.09-15	3	2
			07.09-16									
			07.09-17									
			07.09-18									
		701	07.09-19	2011/4/28	Y	N	N		-	DCD_07.09-19	0	
		701	07.09-20	2011/4/28	Y	N	N		-	DCD_07.09-20	0	
		701	07.09-21	2011/4/28	Y	N	N		-	DCD_07.09-20	0	
				5/31/2011	Y	N	N		-	DCD_07.09-21	0	
		701	07.09-22	2011/4/28	Y	N	N		-	DCD_07.09-20	0	
		710	07.09-23	2011/4/28	N	N	N		-	-	N/A	N/A
				2011/6/20					-			
				2011/9/13	Y	Y	N		-	DCD_07.09-23	1	
		778	07.09-24	2011/8/1	Y	N	N		-	DCD_7.09-24	1	
7-8	Branch Technical Position -											
	Guidance for Application	830	07-08BTP-1	2011/11/29	N	N	N		-	-	N/A	N/A
	of Regulatory Guide 1.22	830	07-08BTP-2	2011/11/29	N	N	N		-	-	N/A	N/A
		830	07-08BTP-3	2011/11/29	N	N	N		-	-	N/A	N/A
		830	07-08BTP-4	2011/11/29	N	N	N		-	-	N/A	N/A
		830	07-08BTP-5	2011/11/29	N	N	N		-	-	N/A	N/A
7-14	Branch Technical Position -											
	Guidance on Software Reviews for	525	07-14BTP-30	2010/3/3	N	N	N		-	-	N/A	N/A
	Digital Computer Based Instrument	525	07-14BTP-31	2010/3/3	N	N	N		-	-	N/A	N/A
	and Control Systems	525	07-14BTP-32	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-33	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-34	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-35	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-36	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-37	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-38	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-39	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-40	2010/3/3	N	N	N		-	-	N/A	N/A
		525	07-14BTP-41	2010/3/3	N	N	N		-	-	N/A	N/A
		665	07-14BTP-42	2010/12/22	N	N	N		-	-	N/A	N/A
				2011/4/28	N	N	N		-	-	N/A	N/A
		772	07-14BTP-43	2011/8/1	N	N	N		-	-	N/A	N/A
		772	07-14BTP-44	2011/8/1	N	N	N		-	-	N/A	N/A
		833	07-14BTP-47	2011/11/29	N	N	N		-	-	N/A	N/A
		833	07-14BTP-48	2011/11/29	N	N	N		-	-	N/A	N/A
		833	07-14BTP-49	xx/yy/2011								
		833	07-14BTP-50	2011/11/29	N	N	N			-	N/A	N/A
		833	07-14BTP-51	xx/yy/2011								
		833	07-14BTP-52	2011/11/29	N	N	N			-	N/A	N/A
		833	07-14BTP-53	xx/yy/2011								
		833	07-14BTP-54	2011/11/29	N	N	N			-	N/A	N/A
7-21	Branch Technical Position -	593	07-21BTP-1	2010/7/16	N	N	N		-	-	N/A	N/A
	Guidance on Digital Computer			2011/4/28	N	N	N		-	-	N/A	N/A
	Real-Time Performance	593	07-21BTP-2	2010/11/24	N	N	N		-	-	N/A	N/A
				2011/4/28	N	N	N		-	-	N/A	N/A
		593	07-21BTP-3	2010/11/24	N	N	N		-	-	N/A	N/A
		593	07-21BTP-4	2010/11/24	Y	N	N		-	DCD_07-21BTP-5	6	3
				2011/4/28	Y	N	N		-		0	

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		593	07-21BTP-5	2010/11/24	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
8.1	Electric Power - Introduction											
8.2	Offsite Power System	4	08.02-1	2008/5/30	Y	Y	N	fin.	-	DCD_08.02-1	-	1
		4	08.02-2	2008/5/30	N	Y	N	fin.	-	-	N/A	N/A
		4	08.02-3	2008/5/30	Y	Y	N	fin.	-	DCD_08.02-3	-	1
		4	08.02-4	2008/5/30	Y	N	N	fin.	-	DCD_08.02-4	-	1
		4	08.02-5	2008/5/30	N	N	N	fin.	-	-	N/A	N/A
		4	08.02-6	2008/5/30	Y	N	N	fin.	-	DCD_08.02-6	-	1
		4	08.02-7	2008/5/30	Y	Y	N	fin.	-	DCD_08.02-7	-	1
		4	08.02-8	2008/5/30	Y	N	N	fin.	-	DCD_08.02-8	-	1
		4	08.02-9	2008/5/30	N	N	N	fin.	-	-	N/A	N/A
		432	08.02-10	2009/9/18	Y	N	N		-	DCD_08.02-10	0	3
		432	08.02-11	2009/9/18	N	N	N		-	-	N/A	N/A
		432	08.02-12	2009/9/18	Y	N	N		-	DCD_08.02-12	0	3
		432	08.02-13	2009/9/18	Y	N	N		-	DCD_08.02-13	0	3
		432	08.02-14	2009/9/18	N	N	N		-	-	N/A	N/A
		432	08.02-15	2009/9/18	N	N	N		-	-	N/A	N/A
		432	08.02-16	2009/9/18	N	N	N		-	-	N/A	N/A
8.3.1	A-C Power Systems (Onsite)	5	08.03.01-1	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		5	08.03.01-2	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		5	08.03.01-3	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		5	08.03.01-4	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		5	08.03.01-5	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		5	08.03.01-6	2008/6/6	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-7	2008/7/18	Y	N	N	fin.	-	DCD_08.03.01-7	0	2
		10	08.03.01-8	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-9	2008/7/18	Y	N	N	fin.	-	DCD_08.03.01-9	0	2
		10	08.03.01-10	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-11	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-12	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-13	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-14	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-15	2008/7/18	Y	N	N	fin.	-	DCD_08.03.01-15	0	2
		10	08.03.01-16	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-17	2008/7/18	Y	N	N	fin.	-	DCD_08.03.01-17	0	2
		10	08.03.01-18	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-19	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-20	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		10	08.03.01-21	2008/7/18	Y	N	N	fin.	-	DCD_08.03.01-21	0	2
				2011/1/9	Y	N	N		-	DCD_08.03.01-21	1	
		10	08.03.01-22	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		386	08.03.01-23	2009/7/22	Y	N	N		-	DCD_08.03.01-23	4	2
		386	08.03.01-24	2009/7/22	Y	N	N		-	DCD_08.03.01-24	4	2
		386	08.03.01-25	2009/7/22	N	N	N		-	-	N/A	N/A
		386	08.03.01-26	2009/7/22	Y	N	N		-	DCD_08.03.01-26	4	2
		386	08.03.01-27	2009/7/22	Y	N	N		-	DCD_08.03.01-27	4	2
		386	08.03.01-28	2009/7/22	N	N	N		-	-	N/A	N/A
		386	08.03.01-29	2009/7/22	Y	N	N		-	DCD_08.03.01-29	4	2
		386	08.03.01-30	2009/7/22	Y	N	N		-	DCD_08.03.01-30	4	2
		386	08.03.01-31	2009/7/22	N	N	N		-	-	N/A	N/A
		386	08.03.01-32	2009/7/22	Y	N	N		-	DCD_08.03.01-32	4	2
		386	08.03.01-33	2009/7/22	Y	N	N		-	DCD_08.03.01-33	4	2
		394	08.03.01-34	2009/7/23	Y	N	N		-	DCD_08.03.01-34	4	2
		394	08.03.01-35	2009/7/23	N	N	N		-	-	N/A	N/A
		394	08.03.01-36	2009/7/23	N	N	N		-	-	N/A	N/A
		394	08.03.01-37	2009/7/23	N	N	N		-	-	N/A	N/A
		394	08.03.01-38	2009/7/23	N	N	N		-	-	N/A	N/A
				201/11/22	Y	Y	N		-	DCD_08.03.01-38	1	
		703	08.03.01-39	2011/3/31	N	N	N		-	-	N/A	N/A
		726	08.03.01-40	2011/6/13	N	N	N		-	-	N/A	N/A
		726	08.03.01-41	2011/6/13	N	N	N		-	-	N/A	N/A
		818	08.03.01-42	2011/10/7	N	N	N		-	-	N/A	N/A
8.3.2	D-C Power Systems (Onsite)	3	01-1	2008/5/30	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-2	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-3	2008/7/10	Y	N	N	fin.	-	DCD_08.03.02-3	-	1
		8	08.03.02-4	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-5	2008/7/10	N	N	N	fin.	-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		8	08.03.02-6	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-7	2008/7/10	Y	N	N	fin.	-	DCD_08.03.02-7	-	1
		8	08.03.02-8	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-9	2008/7/10	Y	N	N	fin.	-	DCD_08.03.02-9	-	1
		8	08.03.02-10	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-11	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-12	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-13	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		8	08.03.02-14	2008/7/10	N	N	N	fin.	-	-	N/A	N/A
		388	08.03.02-15	2009/7/13	Y	N	N		-	DCD_08.03.02-15	4	2
		388	08.03.02-16	2009/7/13	Y	N	N		-	DCD_08.03.02-16	4	2
		388	08.03.02-17	2009/7/13	N	N	N		-	-	N/A	N/A
		388	08.03.02-18	2009/7/13	Y	N	N		-	DCD_08.03.02-18	4	2
		388	08.03.02-19	2009/7/13	Y	N	N		-	DCD_08.03.02-19	4	2
		388	08.03.02-20	2009/7/13	Y	N	N		-	DCD_08.03.02-20	4	2
		388	08.03.02-21	2009/7/13	Y	N	N		-	DCD_08.03.02-21	4	2
		388	08.03.02-22	2009/7/13	Y	N	N		-	DCD_08.03.02-22	4	2
				11/22/2011	Y	N	N		-	DCD_08.03.02-22	1	
8.4	Station Blackout	11	08.04-1	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-2	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-3	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-4	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-5	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-6	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		11	08.04-7	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		419	08.04.-8	2009/8/20	Y	N	N		-	DCD_08.04-8	-	2
		419	08.04.-9	2009/8/20	Y	Y	N		-	DCD_08.04-9	-	2
		419	08.04.-10	2009/8/20	Y	N	N		-	DCD_08.04-10	-	2
		419	08.04.-11	2009/8/20	Y	N	N		-	DCD_08.04-11	-	2
		419	08.04.-12	2009/8/20	Y	N	N		-	DCD_08.04-12	-	2
				11/22/2011	Y	N	N		-	DCD_08.04-12	1	
		510	08.04-13	2010/1/18	N	N	N		-	-	N/A	N/A
		683	08.04-14	XX/YY/2011								

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
9.1.1	Criticality Safety of Fresh and	155	09.01.01.-1	2009/2/10	N	N	N		-	-	N/A	N/A
	Spent Fuel Storage and Handling	155	09.01.01-2	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-3	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-4	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-5	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-6	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-7	2009/2/10	N	N	N		-	-	N/A	N/A
		155	09.01.01-8	2009/2/10	N	N	N		-	-	N/A	N/A
		247	09.01.01-9	2009/3/30	Y	N	N		-	DCD_09.01.01-9	-	2
		247	09.01.01-10	2009/3/30	Y	Y	N		-	DCD_09.01.01-10	-	2
		382	09.01.01-11	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-12	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-13	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-14	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-15	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-16	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-17	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-18	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-19	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-20	2009/7/7	N	N	N		-	-	N/A	N/A
		382	09.01.01-21	2009/7/7	N	N	N		-	-	N/A	N/A
		647	09.01.01-22	2010/11/11	N	N	N		-	-	N/A	N/A
				2011/3/23	N	N	N		-	-	N/A	N/A
		647	09.01.01-23	2010/11/11	N	N	N		-	-	N/A	N/A
				2011/3/23	N	N	N		-	-	N/A	N/A
9.1.2	New and Spent Fuel Storage	132	09.01.02-01	2009/1/29	Y	N	N		-	DCD_09.01.02-01	2	2
		132	09.01.02-02	2009/1/29	N	N	N		-	-	N/A	N/A
		132	09.01.02-03	2009/1/29	N	N	N		-	-	N/A	N/A
		132	09.01.02-04	2009/1/29	Y	N	N		-	DCD_09.01.02-04	1	2
		132	09.01.02-05	2009/1/29	Y	N	N		-	DCD_09.01.02-05	1	2
		132	09.01.02-06	2009/1/29	N	N	N		-	-	N/A	N/A
		132	09.01.02-07	2009/1/29	Y	N	N		-	DCD_09.01.02-07	-	2
		132	09.01.02-08	2009/1/29	Y	N	N		-	DCD_09.01.02-08	2	2
		132	09.01.02-09	2009/1/29	Y	N	N		-	DCD_09.01.02-09	2	2
		132	09.01.02-10	2009/1/29	N	N	N		-	-	N/A	N/A
		132	09.01.02-11	2009/1/29	Y	N	N		-	DCD_09.01.02-11	1	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		132	09.01.02-12	2009/1/29	N	N	N		-	-	N/A	N/A
		132	09.01.02-13	2009/1/29	Y	N	N		-	DCD_09.01.02-13	1	2
		132	09.01.02-14	2009/1/29	Y	N	N		-	DCD_09.01.02-14	1	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		132	09.01.02-15	2009/1/29	Y	N	N		-	DCD_09.01.02-15	-	2
		132	09.01.02-16	2009/1/29	Y	N	N		-	DCD_09.01.02-16	-	2
		132	09.01.02-17	2009/1/29	Y	N	N		-	DCD_09.01.02-17	-	2
		248	09.01.02-18	2009/3/30	Y	N	N		-	DCD_09.01.02-18	2	2
		248	09.01.02-19	2009/3/30	Y	N	N		-	DCD_09.01.02-19	2	2
		248	09.01.02-20	2009/3/30	N	N	N		-	-	N/A	N/A
		387	09.01.02-21	2009/7/10	Y	Y	N		-	DCD_09.01.02-21	-	2
		387	09.01.02-22	2009/7/10	Y	N	N		-	DCD_09.01.02-22	3	2
		387	09.01.02-23	2009/8/11	Y	N	N		-	DCD_09.01.02-23	-	2
		389	09.01.02-24	2009/7/14	Y	N	N		-	DCD_09.01.02-24	-	2
		806	09.01.02-25	2011/9/2	Y	N	N		-	DCD_09.01.02-25	1	
9.1.3	Spent Fuel Pool Cooling and	131	09.01.03-01	2009/1/29	Y	N	N		-	DCD_09.01.03-01	1	2
	Cleanup System	131	09.01.03-02	2009/1/29	Y	N	N		-	DCD_09.01.03-02	1	2
		131	09.01.03-03	2009/1/29	Y	N	N		-	DCD_09.01.03-03	1	2
		201	09.01.03-04	2009/3/26	N	N	N		-	-	N/A	N/A
		201	09.01.03-05	2009/3/26	Y	N	N		-	DCD_09.01.03-05	2	2
		360	09.01.03-6	2009/5/27	Y	N	N		-	DCD_09.01.03-6	-	2
		735	09.01.03-7	2011/6/22	Y	N	N		-	DCD_09.01.03-7	0	
		756	09.01.03-8	8/10/2011	Y	N	N		-	DCD_09.01.03-8	1	
		763	09.01.03-9	8/23/2012	Y	N	N		-	DCD_09.01.03-9	TBD	
9.1.4	Light Load Handling System	200	09.01.04-01	2009/4/23	Y	N	N		-	DCD_09.01.04-01	3	2
	(Related to Refueling)	200	09.01.04-02	2009/4/23	Y	N	N		-	DCD_09.01.04-02	3	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		200	09.01.04-03	2009/4/23	Y	N	N		-	DCD_09.01.04-03	3	2
		200	09.01.04-04	2009/4/23	Y	N	N		-	DCD_09.01.04-04	3	2
		200	09.01.04-05	2009/4/23	Y	N	N		-	DCD_09.01.04-05	3	2
		200	09.01.04-06	2009/4/23	Y	N	N		-	DCD_09.01.04-06	3	2
		200	09.01.04-07	2009/4/23	N	N	N		-	-	N/A	N/A
		200	09.01.04-08	2009/4/23	Y	N	N		-	DCD_09.01.04-08	3	2
		200	09.01.04-09	2009/4/23	Y	N	N		-	DCD_09.01.04-09	3	2
		200	09.01.04-10	2009/4/23	N	N	N		-	-	N/A	N/A
		200	09.01.04-11	2009/4/23	Y	N	N		-	DCD_09.01.04-11	3	2
		200	09.01.04-12	2009/4/23	Y	N	N		-	DCD_09.01.04-12	3	2
		200	09.01.04-13	2009/4/23	Y	N	N		-	DCD_09.01.04-13	-	2
		200	09.01.04-14	2009/4/23	N	N	N		-	-	N/A	N/A
		200	09.01.04-15	2009/4/23	N	N	N		-	-	N/A	N/A
		507	09.01.04-16	2010/2/15	Y	N	N		-	DCD_09.01.04-16	2	3
		555	09.01.04-17	2010/6/4	Y	N	N		-			
				2010/6/16	Y	N	N		-	DCD_09.01.04-17	4	3
		555	09.01.04-18	2010/6/4	Y	N	N		-			
				2010/6/16	Y	N	N		-	DCD_09.01.04-18	4	3
		555	09.01.04-19	2010/6/4	Y	N	N		-			
				2010/6/16	Y	N	N		-	DCD_09.01.04-19	4	3
		555	09.01.04-20	2010/6/4	Y	N	N		-			
				2010/6/16	Y	N	N		-	DCD_09.01.04-20	4	3
		633	09.01.04-21	2010/10/21	Y	N	N		-	DCD_09.01.04-21	5	3
		721	09.01.04-22	2011/4/20	Y	N	N		-	DCD_09.01.04-22	0	
9.1.5	Overhead Heavy Load	292	9.1.5-01	2009/5/25	Y	N	N		-	DCD_9.1.5-01	3	2
	Handling Systems	292	9.1.5-02	2009/5/25	Y	N	N		-	DCD_9.1.5-02	3	2
		292	9.1.5-03	2009/5/25	Y	N	N		-	DCD_9.1.5-03	3	2
		292	9.1.5-04	2009/5/25	Y	N	N		-	DCD_9.1.5-04	3	2
		292	9.1.5-05	2009/5/25	N	N	N		-	-	N/A	N/A
		292	9.1.5-06	2009/5/25	Y	N	N		-	DCD_9.1.5-06	3	2
		292	9.1.5-07	2009/5/25	Y	N	N		-	DCD_9.1.5-07	4	2
		292	9.1.5-08	2009/5/25	Y	N	N		-	DCD_9.1.5-08	3	2
		292	9.1.5-09	2009/5/25	Y	N	N		-	DCD_9.1.5-09	3	2
		292	9.1.5-10	2009/5/25	Y	N	N		-	DCD_9.1.5-10	-	2
		292	9.1.5-11	2009/5/25	Y	N	N		-	DCD_9.1.5-11	3	2
		292	9.1.5-12	2009/5/25	Y	Y	N		-	DCD_9.1.5-12	3	2
		292	9.1.5-13	2009/5/25	N	N	N		-	-	N/A	N/A
		563	09.01.05-14	2010/6/15	Y	N	N		-	DCD_09.01.05-14	4	3
		563	09.01.05-15	2010/6/15	Y	N	N		-	DCD_09.01.05-15	4	3
		563	09.01.05-16	2010/6/15	Y	N	N		-	DCD_09.01.05-16	4	3
		563	09.01.05-17	2010/6/15	Y	N	N		-	DCD_09.01.05-17	4	3
		616	09.01.05-18	2010/9/22	Y	N	N		-	DCD_09.01.05-18	5	3
				2011/6/7	Y	N	N		-		0	
		616	09.01.05-19	2010/9/22	N	N	N		-	-	N/A	N/A
9.2.1	Station Service Water System	203	09.02.01-1	2009/3/25	N	N	N		-	-	N/A	N/A
		203	09.02.01-2	2009/3/25	Y	N	N		-	DCD_09.02.01-2	-	2
		326	09.02.01-3	2009/6/19	Y	N	N		-	DCD_09.02.01-3	-	2
		326	09.02.01-4	2009/6/19	Y	Y	N		-	DCD_09.02.01-4	3	2
		326	09.02.01-5	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-6	2009/6/19	Y	N	N		-	DCD_09.02.01-6	3	2
		326	09.02.01-7	2009/6/19	Y	N	N		-	DCD_09.02.01-7	3	2
		326	09.02.01-8	2009/6/19	Y	N	N		-	DCD_09.02.01-8	3	2
		326	09.02.01-9	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-10	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-11	2009/6/19	Y	N	N		-	DCD_09.02.01-11	3	2
		326	09.02.01-12	2009/6/19	Y	Y	N		-	DCD_09.02.01-12	3	2
		326	09.02.01-13	2009/6/19	Y	Y	N		-	DCD_09.02.01-13	3	2
		326	09.02.01-14	2009/6/19	Y	Y	N		-	DCD_09.02.01-14	3	2
		326	09.02.01-15	2009/6/19	Y	N	N		-	DCD_09.02.01-15	3	2
		326	09.02.01-16	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-17	2009/6/19	Y	Y	N		-	DCD_09.02.01-17	3	2
		326	09.02.01-18	2009/6/19	Y	N	N		-	DCD_09.02.01-18	3	2
		326	09.02.01-19	2009/6/19	Y	N	N		-	DCD_09.02.01-19	3	2
		326	09.02.01-20	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-21	2009/6/19	Y	N	N		-	DCD_09.02.01-21	3	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		326	09.02.01-22	2009/6/19	Y	N	N		-	DCD_09.02.01-22	3	2
		326	09.02.01-23	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-24	2009/6/19	N	N	N		-	-	N/A	N/A
		326	09.02.01-25	2009/6/19	Y	N	N		-	DCD_09.02.01-25	3	2
		326	09.02.01-26	2009/6/19	Y	N	N		-	DCD_09.02.01-26	-	2
		326	09.02.01-27	2009/6/19	Y	Y	N		-	DCD_09.02.01-27	3	2
		326	09.02.01-28	2009/6/19	Y	N	N		-	DCD_09.02.01-28	3	2
		326	09.02.01-29	2009/6/19	Y	N	N		-	DCD_09.02.01-29	-	2
		326	09.02.01-30	2009/6/19	Y	Y	N		-	DCD_09.02.01-30	3	2
		361	09.02.01-31	2009/6/19	Y	Y	N		-	DCD_09.02.01-31	3	2
		585	09.02.01-32	2010/9/24	Y	Y	N		-	DCD_09.02.01-32	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-33	2010/9/24	Y	Y	N		-	DCD_09.02.01-33	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-34	2010/9/24	Y	Y	N		-	DCD_09.02.01-34	6	3
		585	09.02.01-35	2010/9/24	Y	Y	N		-	DCD_09.02.01-35	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-36	2010/9/24	Y	Y	N		-	DCD_09.02.01-36	6	3
				2011/7/27	N	Y	N		-		TBD	
		585	09.02.01-37	2010/9/24	Y	Y	N		-	DCD_09.02.01-37	6	3
				2011/7/27	N	Y	N		-	-	N/A	N/A
		585	09.02.01-38	2010/9/24	Y	Y	N		-	DCD_09.02.01-38	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-39	2010/9/24	Y	Y	N		-	DCD_09.02.01-39	6	3
		585	09.02.01-40	2010/9/24	Y	N	N		-	DCD_09.02.01-40	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-41	2010/9/24	Y	Y	N		-	DCD_09.02.01-41	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-42	2010/9/24	Y	N	N		-	DCD_09.02.01-42	6	3
		585	09.02.01-43	2010/9/24	Y	Y	N		-	DCD_09.02.01-43	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-44	2010/9/24	Y	N	N		-	DCD_09.02.01-44	6	3
				2011/7/27	Y	N	N		-		TBD	
		585	09.02.01-45	2010/9/24	Y	Y	N		-	DCD_09.02.01-45	6	3
		585	09.02.01-46	2010/9/24	Y	Y	N		-	DCD_09.02.01-46	6	3
		585	09.02.01-47	2010/9/24	N	N	N		-	-	N/A	N/A
		585	09.02.01-48	2010/9/24	N	N	N		-	-	N/A	N/A
		585	09.02.01-49	2010/9/24	Y	Y	N		-	DCD_09.02.01-49	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-50	2010/9/24	N	N	N		-	-	N/A	
		585	09.02.01-51	2010/9/24	Y	Y	N		-	DCD_09.02.01-51	6	3
		585	09.02.01-52	2010/9/24	Y	Y	N		-	DCD_09.02.01-52	6	3
				2011/7/27	Y	Y	N		-		TBD	
		585	09.02.01-53	2010/9/24	N	N	N		-	-	N/A	N/A
		585	09.02.01-54	2010/9/24	N	N	N		-	-	N/A	N/A
		585	09.02.01-55	2010/9/24	Y	Y	N		-	DCD_09.02.01-55	6	3
		585	09.02.01-56	2010/9/24	N	N	N		-	-	N/A	N/A
		585	09.02.01-57	2010/9/24	Y	Y	N		-	DCD_09.02.01-57	6	3
		585	09.02.01-58	2010/9/24	Y	Y	N		-	DCD_09.02.01-58	6	3
		585	09.02.01-59	2010/9/24	Y	Y	N		-	DCD_09.02.01-59	6	3

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9.2.2	Reactor Auxiliary	252	09.02.02-1	2009/3/30	N	N	N		-	-	N/A	N/A
	Cooling Water Systems	252	09.02.02-2	2009/3/30	Y	N	N		-	DCD_09.02.02-2	-	2
		343	09.02.02-3	2009/7/17	Y	N	N		-	DCD_09.02.02-3	-	2
		343	09.02.02-4	2009/7/17	Y	N	N		-			
				2009/7/31	Y	N	N			DCD_09.02.02-4	-	2
		343	09.02.02-5	2009/7/17	Y	N	N		-	DCD_09.02.02-5	-	2
		343	09.02.02-6	2009/7/17	Y	N	N		-	DCD_09.02.02-6	-	2
		343	09.02.02-7	2009/7/17	Y	N	N		-	DCD_09.02.02-7	-	2
		343	09.02.02-8	2009/7/17	Y	N	N		-	DCD_09.02.02-8	-	2
		343	09.02.02-9	2009/7/17	Y	N	N		-	DCD_09.02.02-9	-	2
		343	09.02.02-10	2009/7/17	Y	N	N		-	DCD_09.02.02-10	-	2
		343	09.02.02-11	2009/7/17	Y	Y	N		-	DCD_09.02.02-11	-	2
		343	09.02.02-12	2009/7/17	Y	N	N		-	DCD_09.02.02-12	-	2
		343	09.02.02-13	2009/7/17	Y	N	N		-	DCD_09.02.02-13	-	2
		343	09.02.02-14	2009/7/17	N	N	N		-	-	N/A	N/A
		343	09.02.02-15	2009/7/17	Y	N	N		-	DCD_09.02.02-15	-	2
		343	09.02.02-16	2009/7/17	N	N	N		-	-	N/A	N/A
		343	09.02.02-17	2009/7/17	N	N	N		-	-	N/A	N/A
		343	09.02.02-18	2009/7/17	Y	N	N		-	DCD_09.02.02-18	-	2
		343	09.02.02-19	2009/7/17	Y	N	N		-	DCD_09.02.02-19	-	2
		343	09.02.02-20	2009/7/17	Y	N	N		-	DCD_09.02.02-20	-	2
		343	09.02.02-21	2009/7/17	Y	N	N		-	DCD_09.02.02-21	-	2
		362	09.02.02-22	2009/6/19	N	N	N		-	-	N/A	N/A
		362	09.02.02-23	2009/6/19	Y	N	N		-	DCD_09.02.02-23	3	2
		362	09.02.02-24	2009/6/19	Y	N	N		-	DCD_09.02.02-24	3	2
		362	09.02.02-25	2009/6/19	Y	N	N		-	DCD_09.02.02-25	3	2
		362	09.02.02-26	2009/7/16	Y	Y	N		-	DCD_09.02.02-26	3	2
		362	09.02.02-27	2009/7/16	Y	N	N		-	DCD_09.02.02-27	-	2
		362	09.02.02-28	2009/7/16	Y	N	N		-	DCD_09.02.02-28	3	2
		362	09.02.02-29	2009/6/19	Y	N	N		-	DCD_09.02.02-29	3	2
		362	09.02.02-30	2009/6/19	Y	N	N		-	DCD_09.02.02-30	3	2
		362	09.02.02-31	2009/7/16	Y	N	N		-	DCD_09.02.02-31	3	2
		362	09.02.02-32	2009/6/19	Y	N	N		-	DCD_09.02.02-32	-	2
		362	09.02.02-33	2009/7/16	Y	N	N		-	DCD_09.02.02-33	3	2
		362	09.02.02-34	2009/6/19	Y	N	N		-	DCD_09.02.02-34	3	2
		362	09.02.02-35	2009/6/19	N	N	N		-	-	N/A	N/A
		362	09.02.02-36	2009/6/19	Y	N	N		-	DCD_09.02.02-36	3	2
		362	09.02.02-37	2009/7/16	Y	Y	N		-	DCD_09.02.02-37	3	2
		362	09.02.02-38	2009/7/16	N	N	N		-	-	N/A	N/A
		362	09.02.02-39	2009/6/19	Y	N	N		-	DCD_09.02.02-39	3	2
		362	09.02.02-40	2009/6/19	N	N	N		-	-	N/A	N/A
		362	09.02.02-41	2009/6/19	N	N	N		-	-	N/A	N/A
		362	09.02.02-42	2009/6/19	N	N	N		-	-	N/A	N/A
		362	09.02.02-43	2009/6/19	Y	N	N		-	DCD_09.02.02-43	4	2
		362	09.02.02-44	2009/7/16	Y	N	N		-	DCD_09.02.02-44	3	2
		362	09.02.02-45	2009/6/19	Y	N	N		-	DCD_09.02.02-45	4	2
		567	09.02.02-46	2010/5/7	Y	N	N		-	DCD_09.02.02-46	3	3
		571	09.02.02-47	2010/6/8	N	N	N		-	-	N/A	N/A
		571	09.02.02-48	2010/6/8	Y	N	N		-	DCD_09.02.02-48	0	
				2011/7/29	Y	N	Y		-	DCD_09.02.02-48	1	
				2011/10/27	Y	N	N		-	DCD_09.02.02-48	1	
		571	09.02.02-49	2010/6/8	N	N	N		-	-	N/A	N/A
				2011/7/29	Y	N	N		-	DCD_09.02.02-49	0	
				2011/10/27	Y	N	N		-	DCD_09.02.02-49	1	
		571	09.02.02-50	2010/6/8	Y	N	N		-	DCD_09.02.02-50	0	
				2011/7/29	Y	N	N		-			
		571	09.02.02-51	2010/6/8	Y	N	N		-	DCD_09.02.02-51	0	
				2011/7/29	Y	N	N		-			
		571	09.02.02-52	2010/6/8	Y	N	N		-	DCD_09.02.02-52	0	
				2011/7/29	Y	N	N		-			
		571	09.02.02-53	2010/6/8	Y	N	N		-	DCD_09.02.02-53	0	
				2011/7/29	Y	N	N		-		TBD	
		571	09.02.02-54	2010/6/8	N	N	N		-	-	N/A	N/A
				201/7/29	Y	N	N		-	DCD_09.02.02-54	TBD	
		571	09.02.02-55	2010/6/8	Y	N	N		-	DCD_09.02.02-55	0	

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		571	09.02.02-55	2011/7/29	Y	N	N			DCD_09.02.02-55	0	
		571	09.02.02-56	2010/6/8	Y	N	N		-	DCD_09.02.02-56	0	
				2011/7/29	Y	N	N					
		571	09.02.02-57	2010/6/8	Y	N	N		-	DCD_09.02.02-57	0	
				2011/7/29	Y	N	N		-		TBD	
		571	09.02.02-58	2010/6/8	Y	N	N		-	DCD_09.02.02-58	0	
				2011/7/29	Y	N	N		-			
		571	09.02.02-59	2010/6/8	Y	N	N		-	DCD_09.02.02-59	0	
				2011/7/29	Y	N	N		-		TBD	
		571	09.02.02-60	2010/6/8	N	N	N		-	-	N/A	N/A
				2011/7/29	Y	N	N		-	DCD_09.02.02-60	TBD	
		571	09.02.02-61	2010/6/8	N	N	N		-	-	N/A	N/A
				2011/10/27	N	N	N		-	-	N/A	N/A
		571	09.02.02-62	2010/6/8	Y	N	N		-	DCD_09.02.02-62	1	
		571	09.02.02-63	2010/6/8	Y	N	N		-	DCD_09.02.02-63	TBD	
		571	09.02.02-64	2010/6/8	Y	N	N		-	DCD_09.02.02-64	1	
		571	09.02.02-65	2010/6/8	Y	N	N		-	DCD_09.02.02-65	1	
		571	09.02.02-66	2010/6/8	Y	N	N		-	DCD_09.02.02-66	1	
		571	09.02.02-67	2010/6/8	Y	N	N		-	DCD_09.02.02-67	TBD	
				2011/7/29	Y	N	N		-			
		571	09.02.02-68	2010/6/8	Y	N	N		-	DCD_09.02.02-68	0	
				2011/7/29	Y	N	N		-	DCD_09.02.02-68	0	
				2011/10/27	Y	N	N		-	DCD_09.02.02-68	1	
		576	09.02.02-69	2010/6/8	N	N	N		-	-	N/A	N/A
				2011/7/29	Y	N	N		-	DCD_09.02.02-69	0	
		584	09.02.02-70	2010/6/10	Y	N	N		-	DCD_09.02.02-70	0	
				2011/7/15	Y	N	N		-			
		584	09.02.02-71	2010/6/10	Y	N	N		-	DCD_09.02.02-71	0	
				2011/7/15	Y	N	N		-			
		584	09.02.02-72	2010/6/10	Y	N	N		-	DCD_09.02.02-72	0	
				2011/7/15	Y	N	N		-			
		584	09.02.02-73	2010/6/10	N	N	N		-	-	N/A	N/A
				2011/7/15	Y	N	N		-	DCD_09.02.02-73	0	
		584	09.02.02-74	2010/6/10	N	N	N		-	-	N/A	N/A
				2011/7/15	Y	N	N		-	DCD\09.02.02-74	0	
		584	09.02.02-75	2010/6/10	N	N	N		-	-	N/A	N/A
		584	09.02.02-76	2010/6/10	Y	N	N		-	DCD_09.02.02-76	0	
				2011/7/15	Y	N	N		-			
		584	09.02.02-77	2010/6/10	Y	N	N		-	DCD_09.02.02-77	0	
				2011/7/15	Y	N	N	N	-			
		584	09.02.02-78	2010/6/10	Y	N	N		-	DCD_09.02.02-78	0	
				2011/7/15	Y	N	N	N	-			
		584	09.02.02-79	2010/6/10	N	N	N		-	-	N/A	N/A
				2011/7/15	Y	N	N		-	DCD_09.02.02-79	TBD	
		697	09.02.02-80	2011/5/12	Y	N	N		-	DCD_09.02.02-80	0	
				2011/7/29	Y	N	N		-		1	
		699	09.02.02-81	2011/6/6	Y	N	N		-	DCD_09.02.02-81	0	

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		699	09.02.02-81	2011/7/29	Y	N	N		-	DCD_09.02.02-81	0	
			09.02.02-82									
		765	09.02.02-83	2011/6/27	N	N	N		-	-	N/A	N/A
		774	09.02.02-84	2011/8/12	Y	N	N			-	1	
9.2.4	Potable and Sanitary Water Systems	125	09.02.04-1	2009/1/20	Y	Y	N		-	DCD_09.02.04-1	1	2
		125	09.02.04-2	2009/1/20	Y	Y	N		-	DCD_09.02.04-2	1	2
		125	09.02.04-3	2009/1/20	Y	N	N		-	DCD_09.02.04-3	1	2
9.2.5	Ultimate Heat Sink	286	09.02.05-1	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-1	4	3
		286	09.02.05-2	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-2	4	3
				2011/7/25	Y	N	N		-		0	
		286	09.02.05-3	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-3	4	3
		286	09.02.05-4	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-4	4	3
		286	09.02.05-5	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	N	N	N		-	-	N/A	N/A
		286	09.02.05-6	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-6	4	3
		286	09.02.05-7	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-7	4	3
		286	09.02.05-8	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-8	4	3
				2011/7/25	Y	N	N		-		0	
		286	09.02.05-9	2009/5/12	N	N	N		-	-	N/A	N/A
				2010/7/7	Y	N	N		-	DCD_09.02.05-9	4	3
		363	09.02.01-10	2009/6/19	Y	N	N		-	DCD_09.02.01-10	3	2
9.2.6	Condensate Storage Facilities	157	09.02.06-1	2009/2/5	Y	N	N		-	DCD_09.02.06-1	1	2
		157	09.02.06-2	2009/2/5	Y	N	N		-	DCD_09.02.06-2	1	2
		351	09.02.06-2	2009/6/9	N	N	N		-	-	N/A	N/A
		863	09.02.06-3	12/15/2011	Y	N	N		-	DCD_09.02.06-3	1	
9.3.1	Compressed Air System	109	09.03.01-1	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		109	09.03.01-2	2008/12/25	Y	N	N	fin.	-	DCD_09.03.01-2	3	2
		109	09.03.01-3	2008/12/25	Y	N	N	fin.	-	DCD_09.03.01-3	-	2
		109	09.03.01-4	2008/12/25	N	N	N	fin.	-	-	N/A	N/A
		109	09.03.01-5	2008/12/25	Y	N	N	fin.	-	DCD_09.03.01-5	1	2
9.3.2	Process and Post-accident	294	09.03.02-1	2009/5/13	Y	N	N		-	DCD_09.03.02-1	3	2
	Sampling Systems	294	09.03.02-2	2009/5/13	N	N	N		-	-	N/A	N/A
		294	09.03.02-3	2009/5/13	N	N	N		-	-	N/A	N/A
		294	09.03.02-4	2009/5/13	Y	N	N		-	DCD_09.03.02-4	3	2
		294	09.03.02-5	2009/5/13	N	N	N		-	-	N/A	N/A
		294	09.03.02-6	2009/5/13	Y	N	N		-	DCD_09.03.02-6	0	3
		294	09.03.02-7	2009/5/13	N	N	N		-	-	N/A	N/A
		294	09.03.02-8	2009/5/13	Y	N	N		-	DCD_09.03.02-8	3	2
		325	09.03.02-9	2009/5/19	Y	N	N			DCD_09.03.02-9	4	2
		346	09.03.02-10	2009/6/8	N	N	N		-	-	N/A	N/A
		294	09.03.02-7	2009/5/13	N	N	N		-	-	N/A	N/A
		294	09.03.02-8	2009/5/13	Y	N	N		-	DCD_09.03.02-8	0	3
		346	09.03.02-10	2009/6/8	N	N	N		-	-	N/A	N/A
		448	09.03.02-11	2009/9/28	Y	N	N		-	DCD_09.03.02-11	0	3
		461	09.03.02-12	2009/11/17	Y	N	N		-	DCD_09.03.02-12	1	3
		526	09.03.02-13	2010/4/7	Y	Y	N		-	DCD_09.03.02-13	3	3
		526	09.03.02-14	2010/4/7	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		526	09.03.02-15	2010/4/7	Y	N	N		-	DCD_09.03.02-15	3	3
		526	09.03.02-16	2010/4/7	N	N	N		-	-	N/A	N/A
9.3.3	Equipment and Floor	299	09.03.03-1	2009/5/13	Y	N	N		-	DCD_09.03.03-1	3	2
	Drainage System	299	09.03.03-2	2009/5/13	Y	N	N		-	DCD_09.03.03-2	3	2
		299	09.03.03-3	2009/5/13	Y	N	N		-	DCD_09.03.03-3	3	2
		299	09.03.03-4	2009/5/13	N	N	N		-	-	N/A	N/A
		299	09.03.03-5	2009/5/13	N	N	N		-	-	N/A	N/A
		299	09.03.03-6	2009/5/13	Y	N	N		-	DCD_09.03.03-6	3	2
		299	09.03.03-7	2009/5/13	Y	N	N		-	DCD_09.03.03-7	3	2
		299	09.03.03-8	2009/5/13	Y	N	N		-	DCD_09.03.03-8	3	2
		299	09.03.03-9	2009/5/13	Y	N	N		-	DCD_09.03.03-9	3	2
		299	09.03.03-10	2009/5/13	Y	N	N		-	DCD_09.03.03-10	3	2
		299	09.03.03-11	2009/5/13	Y	N	N		-	DCD_09.03.03-11	3	2
		299	09.03.03-12	2009/5/13	Y	N	N		-	DCD_09.03.03-12	3	2
		299	09.03.03-13	2009/5/13	N	N	N		-	-	N/A	N/A
		299	09.03.03-14	2009/5/13	N	N	N		-	-	N/A	N/A
		426	09.03.03-15	2009/9/14	Y	N	N		-	DCD_09.03.03-15	-	2
		426	09.03.03-16	2009/9/14	Y	N	N		-	DCD_09.03.03-16	0	3
		426	09.03.03-17	2009/9/14	Y	N	N		-	DCD_09.03.03-17	-	2
		591	09.03.03-18	2010/7/7	N	N	N		-	-	N/A	N/A
		591	09.03.03-19	2010/7/7	Y	N	N		-	DCD_09.03.03-19	4	3
9.3.4	Chemical and Volume Control Syst	280	09.03.04-1	2009/4/14	N	N	N		-	-	N/A	N/A
	(PWR)	280	09.03.04-2	2009/4/14	N	N	N		-	-	N/A	N/A
	(Including Boron Recovery System)	280	09.03.04-3	2009/4/14	N	N	N		-	-	N/A	N/A
		280	09.03.04-4	2009/4/14	N	N	N		-	-	N/A	N/A
		280	09.03.04-5	2009/4/14	N	N	N		-	-	N/A	N/A
		280	09.03.04-6	2009/4/14	N	N	N		-	-	N/A	N/A
		380	09.03.04-7	2009/6/26	N	N	N		-	-	N/A	N/A
		380	09.03.04-8	2009/6/26	Y	N	N		-	DCD_09.03.04-8	3	2
		384	09.03.04-9	2009/7/17	N	N	N		-	-	N/A	N/A
		384	09.03.04-10	2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	Y	N	N		-	DCD_09.03.04-11	4	2
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	Y	N	N		-	DCD_09.03.04-14	4	2
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	Y	N	N		-	DCD_09.03.04-17	4	2
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	N	N	N		-	-	N/A	N/A
				2009/7/17	Y	N	N		-	DCD_09.03.04-24	4	2
				2010/4/7	Y	Y	N		-	DCD_09.03.04-10	3	3
		828	09.03.04-25	9/22/2011	Y	N	N		-	DCD_09.03.04-25	1	
9.4.1	Control Room Area	63	09.04.01-1 RAI 9.4.1-1	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
	Ventilation System	63	09.04.01-1 RAI 9.4.1-2	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-2	1	2
		63	09.04.01-1 RAI 9.4.1-3	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-3	1	2
		63	09.04.01-1 RAI 9.4.1-4	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-5	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-6	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-7	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-8	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-8	1	2
		63	09.04.01-1 RAI 9.4.1-9	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-10	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-10	1	2
		63	09.04.01-1 RAI 9.4.1-11	2008/10/3	N	N	N	fin.	-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		63	09.04.01-1 RAI 9.4.1-12	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-13	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-15	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-16	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-16	1	2
		63	09.04.01-1 RAI 9.4.1-17	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-18	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-19	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-19	-	2
		63	09.04.01-20 RAI 9.4.1-20	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		582		2011/6/7	N	N	N		-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-21	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-21	1	2
		63	09.04.01-1 RAI 9.4.1-22	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-22	-	2
		63	09.04.01-1 RAI 9.4.1-23	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-23	1	2
		63	09.04.01-1 RAI 9.4.1-24	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-24	-	2
		63	09.04.01-1 RAI 9.4.1-25	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-25	1	2
		63	09.04.01-1 RAI 9.4.1-26	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-26	1	2
		63	09.04.01-1 RAI 9.4.1-27	2008/10/3	Y	Y	N	fin.	-	DCD_09.04.01-27	1	2
		63	09.04.01-1 RAI 9.4.1-28	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-28	-	2
		63	09.04.01-1 RAI 9.4.1-29	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-30	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		63	09.04.01-1 RAI 9.4.1-31	2008/10/3	Y	N	N	fin.	-	DCD_09.04.01-31	1	2
		63	09.04.01-1 RAI 9.4.1-32	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		327	09.04.01-2A	2009/6/19	Y	N	N		-	DCD_09.04.01-2A	4	2
		327	09.04.01-3A	2009/6/19	Y	N	N		-	DCD_09.04.01-3A	-	2
		327	09.04.01-4	2009/6/19	N	N	N		-	-	N/A	N/A
		327	09.04.01-6A	2009/6/19	Y	N	N		-	DCD_09.04.01-6A	4	2
		327	09.04.01-7	2009/6/19	N	N	N		-	-	N/A	N/A
		327	09.04.01-8	2009/6/19	N	N	N		-	-	N/A	N/A
		327	09.04.01-9A	2009/6/19	Y	N	N		-	DCD_09.04.01-9A	4	2
		442	09.04.01-10	2009/9/18	N	N	N		-	-	N/A	N/A
		442	09.04.01-11A	2009/9/18	Y	N	N		-	DCD_09.04.01-11A	-	2
		63	09.04.01-14	2008/10/3	N	N	N	fin.	-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		327	09.04.01-5	2009/6/19	N	N	N		-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		327	09.04.01-9	2010/1/29	Y	N	N		-	DCD_09.04.01-9	2	3
		475	09.04.01-12A	2009/11/20	Y	Y	N		-	DCD_09.04.01-12A	1	3
		475	09.04.01-13A	2009/11/20	Y	N	N		-	DCD_09.04.01-13A	1	3
		475	09.04.01-14A	2009/11/20	N	N	N		-	-	N/A	N/A
		484	09.04.01-15A	2009/12/9	N	N	N		-	-	N/A	N/A
		582	09.04.01-16	2010/7/16	Y	N	N		-	DCD_09.04.01-16	4	3
		582	09.04.01-17	2010/7/16	Y	N	N		-	DCD_09.04.01-17	4	3
		582	09.04.01-18	2010/7/16	N	N	N		-	-	N/A	N/A
		582	09.04.01-19	2010/7/16	N	N	N		-	-	N/A	N/A
		582	09.04.01-20	2010/7/16	Y	N	N		-	DCD_09.04.01-20	4	3
		582	09.04.01-21	2010/7/16	Y	N	N		-	DCD_09.04.01-21	4	3
		582	09.04.01-22	2010/7/16	Y	N	N		-	DCD_09.04.01-22	4	3
		582	09.04.01-23	2010/7/16	N	N	N		-	-	N/A	N/A
		642	09.04.01-24	2010/11/5	Y	N	N		-	DCD_09.04.01-24	5	3
		689	09.04.01-25	2011/3/15	N	N	N		-	-	N/A	N/A
		689	09.04.01-26	2011/3/15	Y	N	N		-	DCD_09.04.01-26	0	
		689	09.04.01-27	2011/3/15	N	N	N		-	-	N/A	N/A
		827	09.04.01-28	2011/10/7	Y	N	N		-	DCD_09.04.01-28	1	
9.4.2	Spent Fuel Pool Area	65	09.04.02-1/9.4.2-1	2008/10/3	Y	N	N	fin.	-	DCD_09.04.02-1	4	2
	Ventilation System	65	09.04.02-1/9.4.2-2	2008/10/3	Y	N	N	fin.	-	DCD_09.04.02-2	4	2
		65	09.04.02-1/9.4.2-3	2008/10/3	Y	N	N	fin.	-	DCD_09.04.02-3	4	2
		65	09.04.02-1/9.4.2-4	2008/10/3	Y	N	N	fin.	-	DCD_09.04.02-4	4	2
		65	09.04.02-1/9.4.2-5	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		65	09.04.02-1/9.4.2-6	2008/10/3	N	N	N	fin.	-	-	N/A	N/A
		328	09.04.02-2	2009/5/21	N	N	N		-	-	N/A	N/A
		328	09.04.02-3	2009/5/21	Y	N	N		-	DCD_09.04.02-3	4	2
		539	09.04.02-4	2010/4/1	Y	N	N		-	DCD_09.04.02-4	3	3

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		539	09.04.02-5	2010/4/1	Y	N	N		-	DCD_09.04.02-5	3	3
		592	09.04.02-6	2010/7/7	Y	N	N		-	DCD_09.04.02-6	4	3
		824	09.04.02-7	2011/10/6	Y	N	N		-	DCD_09.04.02-7	1	
9.4.3	Auxiliary and Radwaste Area	68	09.04.03-1/9.4.3-1	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-1	-	2
	Ventilation System	68	09.04.03-1/9.4.3-2	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		68	09.04.03-1/9.4.3-3	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-3	-	2
		68	09.04.03-1/9.4.3-4	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		68	09.04.03-1/9.4.3-5	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-5	-	2
		68	09.04.03-1/9.4.3-6	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		68	09.04.03-1/9.4.3-7	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-7	4	2
		68	09.04.03-1/9.4.3-8	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-8	4	2
		68	09.04.03-1/9.4.3-9	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-9	4	2
		68	09.04.03-1/9.4.3-10	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-10	-	2
		68	09.04.03-1/9.4.3-11	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		68	09.04.03-1/9.4.3-12	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-12	-	2
		68	09.04.03-1/9.4.3-13	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		68	09.04.03-1/9.4.3-14	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-14	-	2
		68	09.04.03-1/9.4.3-15	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-15	4	2
		68	09.04.03-1/9.4.3-16	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-16	4	2
		68	09.04.03-1/9.4.3-17	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-17	4	2
		68	09.04.03-1/9.4.3-18	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-18	-	2
		68	09.04.03-1/9.4.3-19	2008/10/8	Y	N	N	fin.	-	DCD_09.04.03-19	4	2
		355	09.04.03-1	2009/7/17								
		355	09.04.03-2	2009/7/17	Y	N	N		-	DCD_09.04.03-2	-	2
		355	09.04.03-3	2009/7/17	Y	N	N		-	DCD_09.04.03-3	4	2
		355	09.04.03-4	2009/7/17	Y	N	N		-	DCD_09.04.03-4	-	2
		355	09.04.03-5	2009/7/17	N	N	N		-	-	N/A	N/A
		355	09.04.03-6	2009/7/17	Y	N	N		-	DCD_09.04.03-6	4	2
		355	09.04.03-7	2009/7/17	Y	N	N		-	DCD_09.04.03-7	4	2
		483	09.04.03-08	2010/2/5	Y	N	N		-	DCD_09.04.03-08	2	3
		483	09.04.03-09	2010/2/5	Y	N	N		-	DCD_09.04.03-09	2	3
		483	09.04.03-10	2010/2/5	N	N	N		-	-	N/A	N/A
		634	09.04.03-11	2010/10/15	Y	N	N		-	DCD_09.04.03-11	5	3
		634	09.04.03-12	2010/10/15	Y	N	N		-	DCD_09.04.03-12	5	3
		634	09.04.03-13	2010/10/15	Y	N	N		-	DCD_09.04.03-13	5	3
		779	09.04.03-14	2011/8/11	Y	N	N		-	DCD_09.04.03-14	1	
		779	09.04.03-15	2011/8/11	Y	N	N		-	DCD_09.04.03-15	1	
		779	09.04.03-16	2011/8/11	Y	N	N		-	DCD_09.04.03-16	1	
9.4.4	Turbine Area Ventilation System	66	09.04.04-1/9.4.4.1	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		66	09.04.04-1/9.4.4-2	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		66	09.04.04-1/9.4.4-3	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		66	09.04.04-1/9.4.4-4	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		66	09.04.04-1/9.4.4-5	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		66	09.04.04-1/9.4.4-6	2008/9/22	N	N	N	fin.	-	-	N/A	N/A
		67	09.04.04-2/9.4.4-7	2008/10/6	Y	N	N	fin.	-	DCD_09.04.04-7	1	2
		67	09.04.04-2/9.4.4-8	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		67	09.04.04-2/9.4.4-9	2008/10/6	Y	N	N	fin.	-	DCD_09.04.04-9	1	2
		67	09.04.04-2/9.4.4-10	2008/10/6	Y	N	N	fin.	-	DCD_09.04.04-10	2	2
		67	09.04.04-2/9.4.4-11	2008/10/6	Y	N	N	fin.		DCD_09.04.04-11	1	2
		67	09.04.04-2/9.4.4-12	2008/10/6	Y	N	N	fin.	-	DCD_09.04.04-12	1	2
		341	09.04.04-3	2009/6/1	N	N	N		-	-	N/A	N/A
		541	09.04.03-4	2010/3/30	N	N	N		-	-	N/A	N/A
		541	09.04.04-5	2010/3/30	Y	N	N		-	DCD_09.04.04-5	3	3
		586	09.04.04-6	2010/6/10	N	N	N		-	-	N/A	N/A
		713	09.04.04-7	2011/4/6	N	N	N		-	-	N/A	N/A
9.4.5	Engineered Safety Feature	64	09.04.05-1/9.4.5-1	2008/10/6	N	N	N	fin.	-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
	Ventilation System	64	09.04.05-1/9.4.5-2	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-5	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-6	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-6	4	2
		64	09.04.05-1/9.4.5-7	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-7	-	2
		64	09.04.05-1/9.4.5-8	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-8	4	2
		64	09.04.05-1/9.4.5-9	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-10	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-10	-	2
		64	09.04.05-1/9.4.5-11	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-11	4	2
		64	09.04.05-1/9.4.5-12	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-12	4	2
		64	09.04.05-1/9.4.5-13	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-13	4	2
		64	09.04.05-1/9.4.5-14	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-14	4	2
		64	09.04.05-1/9.4.5-15	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-15	4	2
		64	09.04.05-1/9.4.5-16	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-16	-	2
		64	09.04.05-1/9.4.5-17	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-17	-	2
		64	09.04.05-1/9.4.5-18	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-19	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-19	4	2
		64	09.04.05-1/9.4.5-20	2008/10/6	Y	N	N	fin.	-	DCD_09.04.05-20	4	2
		64	09.04.05-1/9.4.5-21	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-23	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		64	09.04.05-1/9.4.5-24	2008/10/6	N	N	N	fin.	-	-	N/A	N/A
		356	09.04.05-2	2009/7/17	Y	N	N		-	DCD_09.04.05-2	-	2
		356	09.04.05-5	2009/7/17	Y	N	N		-	DCD_09.04.05-5	4	2
		356	09.04.05-6	2009/7/17	Y	N	N		-	DCD_09.04.05-6	4	2
		356	09.04.05-7	2009/7/17	N	N	N		-	-	N/A	N/A
		356	09.04.05-8	2009/7/17	Y	N	N		-	DCD_09.04.05-8	4	2
		64	09.04.05-1/9.4.5-3	2008/10/6	N	N	N	fin.	-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		64	09.04.05-1/9.4.5-4	2008/10/6	N	N	N	fin.	-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		64	09.04.05-1/9.4.5-22	2008/10/6	N	N	N	fin.	-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		356	09.04.05-3	2009/7/17	N	N	N		-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		356	09.04.05-4	2009/7/17	N	N	N		-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		356	09.04.05-9	2009/7/17	N	N	N		-			
				2010/6/29	N	N	N		-	-	N/A	N/A
		474	09.04.05-10	11/13/2009	Y	N	N		-	DCD_09.04.05-10	0	3
		583	09.04.05-11	2010/6/22	Y	N	N		-	DCD_09.04.05-11	4	3
		583	09.04.05-12	2010/6/22	Y	N	N		-	DCD_09.04.05-12	4	3
		666	09.04.05-13	2010/12/20	N	N	N		-	-	N/A	N/A
		670	09.04.05-14	2010/12/28	Y	N	N		-	DCD_09.04.05-14	7	3
		670	09.04.05-15	2010/12/28	N	N	N		-	-	N/A	N/A
		670	09.04.05-16	2010/12/28	Y	N	N		-	DCD_09.04.05-16	7	3
		670	09.04.05-17	2010/12/28	Y	N	N		-	DCD_09.04.05-17	7	3
		670	09.04.05-18	2010/12/28	N	N	N		-	-	N/A	N/A
		690	09.04.05-19	2011/3/15	N	N	N		-	-	N/A	N/A
		825	09.04.05-20	2011/10/6	N	N	N		-	-	N/A	N/A
		825	09.04.05-21	2011/10/6	Y	N	N		-		1	
		825	09.04.05-22	2011/10/6	N	N	N		-	-	N/A	N/A
9.5.1	Fire Protection Program	30	09.05.01-1	2008/9/3	N	N	N	fin.	-	-	N/A	N/A
		30	09.05.01-2	2008/9/3	Y	N	N	fin.	-	DCD_09.05.01-2	1	2
		30	09.05.01-3	2008/9/3	N	N	N	fin.	-	-	N/A	N/A
		30	09.05.01-4	2008/9/3	Y	N	N	fin.	-	DCD_09.05.01-4	1	2
		30	09.05.01-5	2008/9/3	Y	Y	N	fin.	-	DCD_09.05.01-5	1	2

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		30	09.05.01-6	2008/9/3	Y	Y	N	fin.	-	DCD_09.05.01-6	1	2
		30	09.05.01-7	2008/9/3	Y	Y	N	fin.	-	DCD_09.05.01-7	1	2
		30	09.05.01-8	2008/9/3	Y	N	N	fin.	-	DCD_09.05.01-8	2	2
		30	09.05.01-9	2008/9/3	Y	N	N	fin.	-	DCD_09.05.01-9	3	2
		30	09.05.01-10	2008/9/3	N	N	N	fin.	-	-	N/A	N/A
		30	09.05.01-11	2008/9/3	Y	N	N	fin.	-	DCD_09.05.01-11	3	2
		30	09.05.01-12	2008/9/3	N	N	N	fin.	-	-	N/A	N/A
		30	09.05.01-13	2008/9/3	N	N	N	fin.	-	-	N/A	N/A
		87	09.05.01-14	2008/11/26	Y	N	N	fin.	-	DCD_09.05.01-14	3	2
		87	09.05.01-15	2008/11/26	Y	Y	N	fin.	-	DCD_09.05.01-15	1	2
		87	09.05.01-16	2008/11/26	N	N	N	fin.	-	-	N/A	N/A
		87	09.05.01-17	2008/11/26	Y	N	N	fin.	-	DCD_09.05.01-17	1	2
		537	09.05.01-18	04/13/2010	Y	N	N		-	DCD_09.05.01-18	3	3
		537	09.05.01-19	04/13/2010	Y	N	N		-	DCD_09.05.01-19	3	3
9.5.2	Communications Systems	74	09.05.02-1	2008/10/22	N	N	N	fin.	-	-	N/A	N/A
		74	09.05.02-2	2008/10/22	N	N	N	fin.	-	-	N/A	N/A
		74	09.05.02-3	2008/10/22	N	N	N	fin.	-	-	N/A	N/A
		74	09.05.02-4	2008/10/22	Y	N	N	fin.	-	DCD_09.05.02-4	2	2
		74	09.05.02-5	2008/10/22	Y	N	N	fin.	-	DCD_09.05.02-5	1	2
		139	09.05.02-6	2009/2/20	Y	N	N		-	DCD_09.05.02-6	1	2
				2011/7/26	Y	Y	N		-	DCD_09.05.02-6	1	
		139	09.05.02-7	2009/2/20	Y	N	N		-	DCD_09.05.02-7	1	2
		139	09.05.02-8	2009/2/20	Y	N	N		-	DCD_09.05.02-8	1	2
		139	09.05.02-9	2009/2/20	Y	N	N		-	DCD_09.05.02-9	1	2
		139	09.05.02-10	2009/2/20	Y	N	N		-	DCD_09.05.02-10	1	2
		859	09.05.02-11	11/30/2011	Y	N	N		-	DCD_09.05.02-11	1	
		860	09.05.02-12	12/02/2011	N	N	N		-	-	N/A	N/A
9.5.3	Lighting Systems	34	09.05.03-1	2008/9/8	N	N	N	fin.	-	-	N/A	N/A
		34	09.05.03-2	2008/9/8	Y	N	N	fin.	-	DCD_09.05.03-2	1	2
		34	09.05.03-3	2008/9/8	Y	N	N	fin.	-	DCD_09.05.03-3	1	2
		34	09.05.03-4	2008/9/8	Y	N	N	fin.	-	DCD_09.05.03-4	2	2
		34	09.05.03-5	2008/9/8	N	N	N	fin.	-	-	N/A	N/A
		34	09.05.03-6	2008/9/8	Y	N	N	fin.		DCD_09.05.03-6	2	2
		80	09.05.03-7/9.5.3-05 S02	2008/11/5	Y	N	N	fin.	-	CD_09.05.03-7(05_S02	2	2
		80	09.05.03-7/9.5.3-08 S02	2008/11/5	Y	N	N	fin.	-	CD_09.05.03-7(08_S02	2	2
		80	09.05.03-7/9.5.3-10 S02	2008/11/5	Y	N	N	fin.	-	CD_09.05.03-7(10_S02	2	2
9.5.4	Emergency Diesel Engine Fuel	317	09.05.04-1	2009/6/9	Y	N	N		-	DCD_09.05.04-1	4	2
	Oil Storage and Transfer System	317	09.05.04-2	2009/6/9	N	N	N		-	-	N/A	N/A
		317	09.05.04-3	2009/6/9	N	N	N		-	-	N/A	N/A
		317	09.05.04-4	2009/6/9	N	N	N		-	-	N/A	N/A
		317	09.05.04-5	2009/6/9	Y	N	N		-	DCD_09.05.04-5	4	2
		318	09.05.04-6	2009/6/9	Y	N	N		-	DCD_09.05.04-6	-	2
		318	09.05.04-7	2009/6/9	Y	N	N		-	DCD_09.05.04-7	4	2
		318	09.05.04-8	2009/6/9	Y	N	N		-	DCD_09.05.04-8	4	2
		318	09.05.04-9	2009/6/9	Y	N	N		-	DCD_09.05.04-9	4	2
		318	09.05.04-10	2009/6/9	Y	N	N		-	DCD_09.05.04-10	4	2
		318	09.05.04-11	2009/6/9	Y	N	N		-	DCD_09.05.04-11	-	2
		318	09.05.04-12	2009/6/9	Y	N	N		-	DCD_09.05.04-12	-	2
		318	09.05.04-13	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-14	2009/6/9	Y	N	N		-	DCD_09.05.04-14	4	2

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		318	09.05.04-15	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-16	2009/6/9	Y	N	N		-	DCD_09.05.04-16	4	2
		318	09.05.04-17	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-18	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-19	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-20	2009/6/9	Y	N	N		-	DCD_09.05.04-20	-	2
		318	09.05.04-21	2009/6/9	Y	N	N		-	DCD_09.05.04-21	4	2
		318	09.05.04-22	2009/6/9	Y	N	N		-	DCD_09.05.04-22	-	2
		318	09.05.04-23	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-24	2009/6/9	Y	N	N		-	DCD_09.05.04-24	4	2
		318	09.05.04-25	2009/6/9	Y	N	N		-	DCD_09.05.04-25	-	2
		318	09.05.04-26	2009/6/9	Y	N	N		-	DCD_09.05.04-26	-	2
		318	09.05.04-27	2009/6/9	Y	N	N		-	DCD_09.05.04-27	-	2
		318	09.05.04-28	2009/6/9	Y	N	N		-	DCD_09.05.04-28	4	2
		318	09.05.04-29	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-30	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-31	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-32	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-33	2009/6/9	Y	N	N		-	DCD_09.05.04-33	4	2
		318	09.05.04-34	2009/6/9	Y	N	N		-	DCD_09.05.04-34	4	2
		318	09.05.04-35	2009/6/9	Y	N	N		-	DCD_09.05.04-35	4	2
		318	09.05.04-36	2009/6/9	Y	N	N		-	DCD_09.05.04-36	4	2
		318	09.05.04-37	2009/6/9	Y	N	N		-	DCD_09.05.04-37	4	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		318	09.05.04-38	2009/6/9	Y	N	N		-	DCD_09.05.04-38	4	2
		318	09.05.04-39	2009/6/9	Y	N	N		-	DCD_09.05.04-39	4	2
		318	09.05.04-40	2009/6/9	Y	N	N		-	DCD_09.05.04-40	4	2
		318	09.05.04-41	2009/6/9	N	N	N		-	-	N/A	N/A
		318	09.05.04-42	2009/6/9	Y	N	N		-	DCD_09.05.04-42	4	2
		467	09.05.04-43	11/10/2009	Y	Y	N		-	DCD_09.05.04-43	1	3
		468	09.05.04-44	2009/12/10	Y	Y	N		-	DCD_09.05.04-44	1	3
		468	09.05.04-45	2009/12/10	Y	N	N		-	DCD_09.05.04-45	1	3
		468	09.05.04-46	2009/12/10	Y	N	N		-	DCD_09.05.04-46	1	3
		468	09.05.04-47	2009/12/10	Y	N	N		-	DCD_09.05.04-47	1	3
		468	09.05.04-48	2009/12/10	Y	N	N		-	DCD_09.05.04-48	1	3
		468	09.05.04-49	2009/12/10	N	N	N		-	-	N/A	N/A
		565	09.05.04-50	2010/6/15	Y	N	N		-	DCD_09.05.04-50	4	3
		565	09.05.04-51	2010/6/15	Y	N	N		-	DCD_09.05.04-51	4	3
9.5.5	Emergency Diesel Engine											
	Cooling Water System											
9.5.6	Emergency Diesel Engine	319	09.05.06-1	2009/6/9	Y	N	N		-	DCD_09.05.06-1	4	2
	Starting System	319	09.05.06-2	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-3	2009/6/9	Y	N	N		-	DCD_09.05.06-3	4	2
		319	09.05.06-4	2009/6/9	Y	N	N		-	DCD_09.05.06-4	4	2

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		319	09.05.06-5	2009/6/9	Y	N	N		-	DCD_09.05.06-5	4	2
		319	09.05.06-6	2009/6/9	Y	N	N		-	DCD_09.05.06-6	4	2
		319	09.05.06-7	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-8	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-9	2009/6/9	Y	N	N		-	DCD_09.05.06-9	4	2
		319	09.05.06-10	2009/6/9	Y	N	N		-	DCD_09.05.06-10	4	2
		319	09.05.06-11	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-12	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-13	2009/6/9	Y	N	N		-	DCD_09.05.06-13	-	2
		319	09.05.06-14	2009/6/9	Y	N	N		-	DCD_09.05.06-14	4	2
		319	09.05.06-15	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-16	2009/6/9	Y	N	N		-	DCD_09.05.06-16	-	2
		319	09.05.06-17	2009/6/9	Y	N	N		-	DCD_09.05.06-17	4	2
		319	09.05.06-18	2009/6/9	Y	N	N		-	DCD_09.05.06-18	4	2
		319	09.05.06-19	2009/6/9	Y	N	N		-	DCD_09.05.06-19	4	2
		319	09.05.06-20	2009/6/9	N	N	N		-	-	N/A	N/A
		319	09.05.06-21	2009/6/9	Y	N	N		-	DCD_09.05.06-21	4	2
		319	09.05.06-22	2009/6/9	Y	N	N		-	DCD_09.05.06-22	4	2
		319	09.05.06-23	2009/6/9	N	N	N		-	-	N/A	N/A
		504	09.05.06-24	12/23/09	Y	N	N		-	DCD_09.05.06-24	1	3
		504	09.05.06-25	12/23/09	Y	N	N		-	DCD_09.05.06-25	1	3
9.5.7	Emergency Diesel Engine	320	09.05.07-1	2009/6/9	Y	N	N		-	DCD_09.05.07-1	4	2
	Lubrication System	320	09.05.07-2	2009/6/9	N	N	N		-	-	N/A	N/A
		320	09.05.07-3	2009/6/9	Y	N	N		-	DCD_09.05.07-3	4	2
		320	09.05.07-4	2009/6/9	Y	N	N		-	DCD_09.05.07-4	-	2
		320	09.05.07-5	2009/6/9	Y	N	N		-	DCD_09.05.07-5	4	2
		320	09.05.07-6	2009/6/9	Y	N	N		-	DCD_09.05.07-6	4	2
		320	09.05.07-7	2009/6/9	Y	N	N		-	DCD_09.05.07-7	4	2
		320	09.05.07-8	2009/6/9	Y	N	N		-	DCD_09.05.07-8	-	2
		320	09.05.07-9	2009/6/9	Y	N	N		-	DCD_09.05.07-9	4	2
		320	09.05.07-10	2009/6/9	Y	N	N		-	DCD_09.05.07-10	-	2
		320	09.05.07-11	2009/6/9	Y	N	N		-	DCD_09.05.07-11	4	2
		320	09.05.07-12	2009/6/9	Y	N	N		-	DCD_09.05.07-12	4	2
		320	09.05.07-13	2009/6/9	N	N	N		-	-	N/A	N/A
		320	09.05.07-14	2009/6/9	Y	N	N		-	DCD_09.05.07-14	3	2
		320	09.05.07-15	2009/6/9	Y	N	N		-	DCD_09.05.07-15	4	2
		320	09.05.07-16	2009/6/9	Y	N	N		-	DCD_09.05.07-16	4	2
		320	09.05.07-17	2009/6/9	Y	N	N		-	DCD_09.05.07-17	4	2
		469	09.05.07-18	11/6/2009	N	N	PRA		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		469	09.05.07-19	11/6/2009	N	N	N		-	-	N/A	N/A
		506	09.05.07-20	2010/1/29	Y	N	N		-	DCD_09.05.07-20	2	3
		506	09.05.07-21	2010/1/29	N	N	N		-	-	N/A	N/A
		506	09.05.07-22	2010/1/29	Y	N	N		-	DCD_09.05.07-22	2	3
		506	09.05.07-23	2010/1/29	Y	N	N		-	DCD_09.05.07-23	2	3
		556	09.05.07-24	2010/4/27	Y	N	N		-	DCD_09.05.07-24	3	3
9.5.8	Emergency Diesel Engine	321	09.05.08-1	2009/6/9	Y	N	N		-	DCD_09.05.08-1	4	2
	Combustion Air Intake and	321	09.05.08-2	2009/6/9	Y	N	N		-	DCD_09.05.08-2	-	2
	Exhaust System	321	09.05.08-3	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-4	2009/6/9	Y	N	N		-	DCD_09.05.08-4	-	2
		321	09.05.08-5	2009/6/9	Y	N	N		-	DCD_09.05.08-5	4	2
		321	09.05.08-6	2009/6/9	Y	N	N		-	DCD_09.05.08-6	4	2
		321	09.05.08-7	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-8	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-9	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-10	2009/6/9	Y	N	N		-	DCD_09.05.08-10	4	2
		321	09.05.08-11	2009/6/9	Y	N	N		-	DCD_09.05.08-11	4	2
		321	09.05.08-12	2009/6/9	Y	N	N		-	DCD_09.05.08-12	4	2
		321	09.05.08-13	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-14	2009/6/9	N	N	N		-	-	N/A	N/A
		321	09.05.08-15	2009/6/9	Y	N	N		-	DCD_09.05.08-15	4	2
		321	09.05.08-16	2009/6/9	Y	N	N		-	DCD_09.05.08-16	4	2
		321	09.05.08-17	2009/6/9	Y	N	N		-	DCD_09.05.08-17	3	2
		470	09.05.08-18	2009/12/2	Y	N	N		-	DCD_09.05.08-18	1	3
		470	09.05.08-19	2009/12/2	N	N	N		-	-	N/A	N/A
		470	09.05.08-20	2009/12/2	Y	N	N		-	DCD_09.05.08-20	1	3
		470	09.05.08-21	2009/12/2	Y	N	N		-	DCD_09.05.08-21	1	3
		470	09.05.08-22	2009/12/2	Y	N	N		-	DCD_09.05.08-22	1	3
		505	09.05.08-23	2010/2/1	N	N	N		-	-	N/A	N/A
		505	09.05.08-24	2010/2/1	N	N	N		-	-	N/A	N/A
		505	09.05.08-25	2010/2/1	Y	N	N		-	DCD_09.05.08-25	2	3
		557	09.05.08-26	2010/6/14	Y	N	N		-	DCD_09.05.08-26	5	3
		618	09.05.08-27	2010/11/4	Y	N	N		-	DCD_09.05.08-27	5	3
		704	09.05.08-28	2011/7/4	Y	Y	N		-	DCD_09.05.08-28	0	

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
10.2	Turbine Generator	237	10.02-1	2009/3/25	N	N	N		-	-	N/A	N/A
		237	10.02-2	2009/3/25	N	N	N		-	-	N/A	N/A
		237	10.02-3	2009/3/25	N	N	N		-	-	N/A	N/A
		237	10.02-4	2009/3/25	Y	N	N		-	DCD_10.02-4	-	2
		435	10.02-2/10.2-1	2009/8/24	N	N	N		-	-	N/A	N/A
		598	10.02-3	2010/7/20	N	N	N		-	-	N/A	N/A
				201/6/7	Y	N	N		-	DCD_10.02.3	0	
		598	10.02-4	2010/7/20	Y	N	N		-	DCD_10.2-4	4	3
				2011/6/7	Y	N	N		-		0	
10.2.3	Turbine Rotor Integrity	199	10.02.03-1,10.2.3-1	2009/3/10	Y	N	N		-	DCD_10.02.03-1	2	2
		199	10.02.03-2,10.2.3-2	2009/3/10	Y	N	N		-	DCD_10.02.03-2	2	2
		199	10.02.03-3,10.2.3-3	2009/3/10	Y	N	N		-	DCD_10.02.03-3	3	2
		199	10.02.03-4,10.2.3-4	2009/3/10	Y	N	N		-	DCD_10.02.03-4	2	2
		199	10.02.03-5,10.2.3-5	2009/3/10	Y	N	N		-	DCD_10.02.03-5	2	2
		199	10.02.03-6,10.2.3-6	2009/3/10	Y	N	N		-	DCD_10.02.03-6	2	2
		199	10.02.03-7,10.2.3-7	2009/3/10	Y	N	N		-	DCD_10.02.03-7	2	2
		574	10.02.03-8	2010/6/10	N	N	N		-	-	N/A	N/A
		574	10.02.03-9	2010/6/10	N	N	N		-	-	N/A	N/A
		574	10.02.03-10	2010/6/10	Y	N	N		-	DCD_10.02.03-10	4	3
		574	10.02.03-11	2010/6/10	N	N	N		-	-	N/A	N/A
10.3	Main Steam Supply System	329	10.3-1	2009/5/26	Y	Y	N		-	DCD_10.3-1	3	2
		431	10.03-4/10.3-1	2009/8/28	N	N	N		-	-	N/A	N/A
		329	10.3-2	2009/5/26	N	N	N		-	-	N/A	N/A
		329	10.3-3	2009/5/26	N	N	N		-	-	N/A	N/A
10.3.6	Steam and	250	10.03.06-1	2009/4/1	Y	N	N		-	DCD_10.03.06-1	2	2
	Feedwater System Materials	250	10.03.06-2	2009/4/1	Y	N	N		-	DCD_10.03.06-2	2	2
		250	10.03.06-3	2009/4/1	Y	N	N		-	DCD_10.03.06-3	4	2
		250	10.03.06-4	2009/4/1	Y	N	N		-	DCD_10.03.06-4	2	2
		250	10.03.06-5	2009/4/1	Y	N	N		-	DCD_10.03.06-5	2	2
		250	10.03.06-6	2009/4/1	Y	Y	N		-	DCD_10.03.06-6	2	2
		250	10.03.06-7	2009/4/1	Y	N	N		-	DCD_10.03.06-7	2	2
		397	10.03.06-8	2009/7/17	Y	N	N		-	DCD_10.03.06-8	3	2
		397	10.03.06-9	2009/7/17	Y	N	N		-	DCD_10.03.06-9	3	2
			10.03.06-1									

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
			10.03.06-2									
			10.03.06-3									
			10.03.06-4									
			10.03.06-5									
			10.03.06-6									
			10.03.06-7									
			10.03.06-8									
			10.03.06-9									
		500	10.03.06-10	12/24/2009	Y	N	N		-	DCD_10.03.06-10	1	3
		500	10.03.06-11	12/24/2009	N	N	N		-	-	N/A	N/A
		500	10.03.06-12	12/24/2009	Y	N	N		-	DCD_10.03.06-12	1	3
				12/17/2010	Y	N	N		-	DCD_10.03.06-12	0	
				4/4/2011	Y	N	N		-		0	
10.4.1	Main Condensers	245	10.4.1-1	2009/3/30	Y	N	N		-	DCD_10.4.1-1	2	2
		434	10.04.01-2/10.4.1-1	2009/8/26	Y	N	N		-	CD_10.04.01-2/10.4.1-	4	2
		245	10.4.1-2	2009/3/30	N	N	N		-	-	N/A	N/A
		245	10.4.1-3	2009/3/30	N	N	N		-	-	N/A	N/A
10.4.2	Main Condenser Evacuation Systen	246	10.4.2-1	2009/3/30	N	N	N		-	-	N/A	N/A
		436	10.04.02-2/10.4.2-1	2009/8/26	Y	N	N		-	CD_10.04.02-2/10.4.2-	4	2
10.4.2	Main Condenser Evacuation System											
10.4.3	Turbine Gland Sealing System	236	10.4.3-1	2009/3/24	Y	N	N		-	DCD_10.4.3-1	2	2
		437	10.04.03-2/10.4.3-1	2009/8/26	Y	N	N		-	CD_10.04.03-2/10.4.3-	4	2
		236	1..4.3-2	2009/3/24	N	N	N		-	-	N/A	N/A
10.4.4	Turbine Bypass System	159	10.4.4-1	2009/2/20	N	N	N		-	-	N/A	N/A
		430	10.03.04-3/10.4.4-1	2009/8/28	Y	N	N		-	CD_10.03.04-3/10.4.4-	4	2
10.4.5	Circulating Water System											
10.4.6	Condensate Cleanup System	235	10.04.06-1	2009/3/25	N	N	N		-	-	N/A	N/A
		235	10.04.06-2	2009/3/25	N	N	N		-	-	N/A	N/A
		235	10.04.06-3	2009/3/25	N	N	N		-	-	N/A	N/A
		235	10.04.06-4	2009/3/25	Y	N	N		-	DCD_10.04.06-4	2	2
		235	10.04.06-5	2009/3/25	N	N	N		-	-	N/A	N/A
		383	10.04.06-6	2009/7/6	N	N	N		-	-	N/A	N/A
		383	10.04.06-7	2009/7/6	N	N	N		-	-	N/A	N/A
		441	10.04.06-8	2009/9/16	Y	N	N		-	DCD_10.04.06-8	0	3
		441	10.04.06-9	2009/9/16	N	N	N		-	-	N/A	N/A
		441	10.04.06-10	2009/9/16	N	N	N		-	-	N/A	N/A
		543	10.04.06-11/OI 10.04.06-1	2010/4/26	N	N	N		-	-	N/A	N/A
		543	10.04.06-12/OI 10.04.06-2	2010/4/26	N	N	N		-	-	N/A	N/A
		543	10.04.06-13/OI 10.04.06-3	2010/4/26	N	N	N		-	-	N/A	N/A
		543	10.04.06-14/OI 10.04.06-4	2010/4/26	N	N	N		-	-	N/A	N/A
		543	10.04.06-15/OI 10.04.06-5	2010/4/26	N	N	N		-	-	N/A	N/A
		630	10.04.06-16	2010/10/6	Y	N	N		-	DCD_10.04.06-16	5	3
		807	10.04.06-17	2011/9/12	Y	Y	N		-	DCD_10.04.06-17	TBD	
				2011/9/29	Y	Y	N		-	DCD_10.04.06-17	1	

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
10.4.7	Condensate and Feedwater System	124	10.4.7-1	2008/12/25	N	N	N	fin.	-	-		
				2009/6/1	Y	Y	N		-	DCD_10.4.7-1	3	2
10.4.8	Steam Generator Blowdown System (PWR)	251	10.04.08-1	2009/4/1	Y	N	N		-	DCD_10.04.08-1	2	2
		251	10.04.08-2	2009/4/1	N	N	N		-	-	N/A	N/A
		251	10.04.08-3	2009/4/1	N	N	N		-	-	N/A	N/A
		251	10.04.08-4	2009/4/1	Y	N	N		-	DCD_10.04.08-4	2	2
		251	10.04.08-5	2009/4/1	Y	N	N		-	DCD_10.04.08-5	2	2
		251	10.04.08-6	2009/4/1	Y	N	N		-	DCD_10.04.08-6	2	2
		251	10.04.08-7	2009/4/1	Y	N	N		-	DCD_10.04.08-7	2	2
		251	10.04.08-8	2009/4/1	Y	N	N		-	DCD_10.04.08-8	3	2
		862	10.04.08-9	12/12/2011	Y	N	N		-	DCD_10.04.08-9	1	
		862	10.04.08-10	12/12/2011	N	N	N		-	-	N/A	N/A
		862	10.04.08-11	12/12/2011	Y	N	N		-	DCD_10.04.08-11	1	
10.4.9	Auxiliary Feedwater System (PWR)	160	10.04.09-1	2009/2/20	Y	N	N		-	DCD_10.04.09-1	1	2
		160	10.04.09-2	2009/2/20	N	N	N		-	-	N/A	N/A
		160	10.04.09-3	2009/2/20	Y	N	N		-	DCD_10.04.09-3	-	2
		160	10.04.09-4	2009/2/20	Y	N	N		-			
				2009/6/1	Y	Y	N		-	DCD_10.04.09-4	3	2
		160	10.04.09-5	2009/2/20	Y	N	N		-	DCD_10.04.09-5	1	2
		160	10.04.09-6	2009/2/20	Y	N	N		-	DCD_10.04.09-6	1	2
		160	10.04.09-7	2009/2/20	Y	N	N		-	DCD_10.04.09-7	1	2
		160	10.04.09-8	2009/2/20	Y	N	N		-	DCD_10.04.09-8	1	2
		160	10.04.09-9	2009/2/20	Y	N	N		-	DCD_10.04.09-9	1	2
		160	10.04.09-10	2009/2/20	Y	N	N		-	DCD_10.04.09-10	1	2
		160	10.04.09-11	2009/2/20	Y	N	N		-	DCD_10.04.09-11	1	2
		160	10.04.09-12	2009/2/20	N	N	N		-	-	N/A	N/A
		160	10.04.09-13	2009/2/20	Y	N	N		-	DCD_10.04.09-13	1	2
		160	10.04.09-14	2009/2/20	Y	N	N		-	DCD_10.04.09-14	1	2
		160	10.04.09-15	2009/2/20	Y	N	N		-	DCD_10.04.09-15	1	2
		160	10.04.09-16	2009/2/20	N	N	N		-	-	N/A	N/A
		160	10.04.09-17	2009/2/20	N	N	N		-	-	N/A	N/A
		160	10.04.09-18	2009/2/20	Y	N	N		-	DCD_10.04.09-18	-	2
		160	10.04.09-19	2009/2/20	Y	N	N		-	DCD_10.04.09-19	-	2
		160	10.04.09-20	2009/2/20	Y	N	N		-	DCD_10.04.09-20	-	2
		160	10.04.09-21	2009/2/20	Y	N	N		-	DCD_10.04.09-21	1	2
		160	10.04.09-22	2009/2/20	N	N	N		-	-	N/A	N/A
		408	10.04.09-23	2009/7/28	Y	N	N		-	DCD_10.04.09-23	3	2
		408	10.04.09-24	2009/7/28	Y	N	N		-	DCD_10.04.09-24	3	2
		408	10.04.09-25	2009/7/28	Y	N	N		-	DCD_10.04.09-25	3	2
		408	10.04.09-26	2009/7/28	N	N	N		-	-	N/A	N/A
		408	10.04.09-27	2009/7/28	Y	N	N		-	DCD_10.04.09-27	3	2
		408	10.04.09-28	2009/7/28	Y	N	N		-	DCD_10.04.09-28	-	2
		408	10.04.09-29	2009/7/28	Y	N	N		-	DCD_10.04.09-29	-	2
		408	10.04.09-30	2009/7/28	Y	N	N		-	DCD_10.04.09-30	-	2
		408	10.04.09-31	2009/7/28	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		711	11.02-34	2011/3/30	Y	Y	N		-	DCD_11.02-34	TBD	
11.3	Gaseous Waste	188	11.03-1	2009/3/10	N	N	N		-	-	N/A	N/A
	Management System	188	11.03-2	2009/3/10	N	N	N		-	-	N/A	N/A
		188	11.03-3	2009/3/10	Y	N	N		-	DCD_11.03-3	2	2
		188	11.03-4	2009/3/10	Y	N	N		-	DCD_11.03-4	2	2
		188	11.03-5	2009/3/10	N	N	N		-	-	N/A	N/A
		189	11.03-6	2009/3/10	N	N	N		-	-	N/A	N/A
		189	11.03-7	2009/3/10	N	N	N		-	-	N/A	N/A
		189	11.03-8	2009/3/10	N	N	N		-	-	N/A	N/A
		189	11.03-9	2009/3/10	N	N	N		-	-	N/A	N/A
		189	11.03-10	2009/3/10	Y	N	N		-	DCD_11.03-10	2	2
		189	11.03-11	2009/3/10	N	N	N		-	-	N/A	N/A
		402	11.03-12	2009/7/15	N	N	N		-	-	N/A	N/A
		402	11.03-13	2009/7/15	N	N	N		-	-	N/A	N/A
		439	11.03-14	2009/9/17	N	N	N		-	-	N/A	N/A
								-	COL 11.3(5) deleted	MAP-11-001	-	2
		533	11.03-15	2010/4/20	Y	N	N		-	DCD_11.03-15	3	3
		535	11.03-16	2010/4/20	Y	N	N		-	DCD_11.03-16	3	3
		535	11.03-17	2010/4/20	Y	N	N		-	DCD_11.03-17	3	3
		629	11.03-18	2010/9/24	Y	N	N		-	DCD_11.03-18	5	3
				2011/6/1	Y	N	N		-		0	
		712	11.03-19	2011/5/17	Y	N	N		-	DCD_11.03-19	0	
				2011/11/21	Y	N	N		-	DCD_11.03-19	1	
11.4	Solid Waste Management System	185	11.04-1	2009/3/11	Y	N	N		-	DCD_11.04-1	2	2
		185	11..04-2	2009/3/11	Y	N	N		-	DCD_11..04-2	2	2
		185	11.04-3	2009/3/11	Y	N	N		-	DCD_11.04-3	2	2
		185	11.04-4	2009/3/11	N	N	N		-	-	N/A	N/A
		185	11.04-5	2009/3/11	Y	N	N		-	DCD_11.04-5	2	2
		187	11.04-6	2009/3/11	Y	N	N		-	DCD_11.04-6	3	2
		187	11.04-7	2009/3/11	Y	N	N		-	DCD_11.04-7	2	2
		187	11.04-8	2009/3/11	Y	N	N		-	DCD_11.04-8	2	2
		187	11.04-9	2009/3/11	Y	N	N		-	DCD_11.04-9	2	2
		187	11.04-10	2009/3/11	Y	N	N		-	DCD_11.04-10	2	2
		187	11.04-11	2009/3/11	Y	N	N		-	DCD_11.04-11	2	2
		187	11.04-12	2009/3/11	N	N	N		-	-	N/A	N/A
		187	11.04-13	2009/3/11	Y	N	N		-	DCD_11.04-13	2	2
		187	11.04-14	2009/3/11	N	N	N		-	-	N/A	N/A
		187	11.04-15	2009/3/11	Y	N	N		-	DCD_11.04-15	2	2
		187	11.04-16	2009/3/11	Y	N	N		-	DCD_11.04-16	2	2
		187	11.04-17	2009/3/11	Y	N	N		-	DCD_11.04-17	2	2
		401	11.04-18	2009/7/15	Y	N	N		-	DCD_11.04-18	4	2
		534	11.04-19	2010/4/20	Y	Y	N		-	DCD_11.04-19	3	3
				2011/6/24	Y	Y	N		-	DCD_11.04-19	TBD	
				2011/9/21	Y	Y	N		-	DCD_11.04-19	1	
		536	11.04-20	2010/4/20	Y	N	N		-	DCD_11.04-20	3	3
		536	11.04-21	2010/4/20	Y	N	N		-	DCD_11.04-21	3	3
11.5	Process and Effluent	130	11.05-1	2009/1/30	N	N	N		-	-	N/A	N/A
	Radiological Monitoring	130	11.05-2	2009/1/30	Y	N	N		-	DCD_11.05-2	2	2
	Instrumentation and	130	11.05-3	2009/1/30	N	N	N		-	-	N/A	N/A
	Sampling Systems	130	11.05-4	2009/1/30	N	N	N		-	-	N/A	N/A
		249	11.05-5	2009/3/31	Y	N	N		-	-	N/A	N/A
		249	11.05-6	2009/4/13	N	N	N		-	-	N/A	N/A
		249	11.05-7	2009/4/13	N	N	N		-	-	N/A	N/A
		249	11.05-8	2009/4/13	N	N	N		-	-	N/A	N/A
		249	11.05-9	2009/3/31	N	N	N		-	-	N/A	N/A
		249	11.05-10	2009/3/31	Y	N	N		-	DCD_11.05-10	2	2
		249	11.05-11	2009/3/31	Y	N	N		-	DCD_11.05-11	2	2
		400	11.05-12	2009/7/15	Y	N	N		-	DCD_11.05-12	4	2
		400	11.05-13	2009/7/15	Y	N	N		-	DCD_11.05-12	4	2

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		400	11.05-14	2009/7/15	N	N	N		-	-	N/A	N/A
		400	11.05-15	2009/7/15	N	N	N		-	-	N/A	N/A
		400	11.05-16	2009/7/15	Y	N	N		-	DCD_11.05-12	4	2
		400	11.05-17	2009/7/15	Y	N	N		-	DCD_11.05-12	4	2
		522	11.05-18	2010/3/8	Y	N	N		-	DCD_11.05-18	3	3

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
12.1	Assuring that	89	12.01-1	2008/11/26	Y	N	N	fin.	-	DCD_12.01-1	0	2
	Occupational Radiation Exposures	89	12.01-2	2008/11/26	Y	Y	N	fin.	-	DCD_12.01-2	0	2
	Are As Low As											
	Is Reasonably Achievable											
12.2	Radiation Sources	128	12.02-1	2009/1/21	N	N	N		-	-	N/A	N/A
		128	12.02-2	2009/1/21	N	N	N		-	-	N/A	N/A
		128	12.02-3	2009/1/21	N	N	N		-	-	N/A	N/A
		140	12.02-4	2009/2/6	Y	N	N		-	DCD_12.02-4	1	2
		141	12.02-5	2009/2/6	N	N	N		-	-	N/A	N/A
		141	12.02-6	2009/2/6	Y	N	N		-	DCD_12.02-6	1	2
		142	12.02-7	2009/2/6	Y	N	N		-	DCD_12.02-7	1	2
		142	12.02-8	2009/2/6	Y	N	N		-	DCD_12.02-8	1	2
		142	12.02-9	2009/2/6	N	N	N		-	-	N/A	N/A
		143	12.02-10	2009/2/6	Y	N	N		-	DCD_12.02-10	1	2
		143	12.02-11	2009/2/6	N	N	N		-	-	N/A	N/A
		144	12.02-12	2009/2/6	Y	N	N		-	DCD_12.02-12	1	2
		145	12.02-13	2009/2/6	N	N	N		-	-	N/A	N/A
		168	12.02-14	2009/3/4	Y	N	N		-	DCD_12.02-14	2	2
		169	12.02-15	2009/2/27	Y	Y	N	fin.	-	DCD_12.02-15	1	2
		179	12.02-16	2009/3/3	N	N	N		-	-	N/A	N/A
		427	12.02-17	2009/9/28	N	N	N		-	-	N/A	N/A
		427	12.02-18	2009/9/28	Y	N	N		-	DCD_12.02-18	-	2
		427	12.02-19	2010/9/14	Y	N	N		-	DCD_12.02-19	0	3
												N/A
				2010/9/28	Y	N	N		-	DCD_12.02-19	0	3
		427	12.02-21	2009/9/28	Y	N	N		-	DCD_12.02-21	0	3
		427	12.02-22	2009/9/28	Y	N	N		-	DCD_12.02-22	0	3
		532	12.02-23	2010/4/9	Y	N	N		-	DCD_12.02-23	3	3
		532	12.02-24	2010/4/9	N	N	N		-	-	N/A	N/A
		532	12.02-25	2010/4/9	Y	N	N		-	DCD_12.02-25	3	3
		532	12.02-26	2010/4/9	Y	N	N		-	DCD_12.02-26	3	3
		532	12.02-27	2010/4/9	Y	N	N		-		3	3
				2010/9/14	Y	N	N		-	DCD_12.02-27	5	3
		532	12.02-28	2010/4/9	Y	N	N		-	DCD_12.02-28	3	3
		532	12.02-29	2010/4/9	Y	Y	N		-		3	3
				2010/4/9	Y	Y	N		-	DCD_12.02-29	5	3
		532	12.02-30	2010/4/9	Y	Y	N		-	DCD_12.02-30	3	3
		561	12.02-31	2010/4/9	N	N	N		-	-	N/A	N/A
12.3-	Radiation Protection	90	12.03-12.04-1	2008/11/26	Y	N	N	fin.	-	DCD_12.03-12.04-1	0	2
12.4	Design Features	91	12.03-12.04-2	2009/1/9	Y	Y	N	fin.	-	DCD_12.03-12.04-2	0	2
		147	12.03-12.04-3	2009/2/6	Y	N	N		-	DCD_12.03-12.04-3	1	2
		147	12.03-12.04-4	2009/2/6	Y	N	N		-	DCD_12.03-12.04-4	1	2
		147	12.03-12.04-5	2009/2/6	Y	N	N		-	DCD_12.03-12.04-5	1	2
		170	12.03-12.04-6	2009/3/4	N	N	N		-	-	N/A	N/A
		171	12.03-12.04-7	2009/3/3	N	N	N		-	-	N/A	N/A
		171	12.03-12.04-8	2009/3/3	N	N	N		-	-	N/A	N/A
		171	12.03-12.04-9	2009/3/3	Y	N	N		-	DCD_12.03-12.04-9	-	2
		172	12.03-12.04-10	2009/3/3	Y	N	N		-	DCD_12.03-12.04-10	-	2
		173	12.03-12.04-11	2009/2/27	Y	N	N		-	DCD_12.03-12.04-11	1	2
		174	12.03-12.04-12	2009/2/27	Y	N	N		-	DCD_12.03-12.04-12	1	2
		262	12.03-12.04-13	2009/5/7	Y	N	N		-	DCD_12.03-12.04-13	3	2
		262	12.03-12.04-14	2009/5/7	Y	N	N		-	DCD_12.03-12.04-14	3	2
		262	12.03-12.04-15	2009/5/7	Y	N	N		-	DCD_12.03-12.04-15	3	2
		262	12.03-12.04-16	2009/5/7	N	N	N		-	-	N/A	N/A
		262	12.03-12.04-17	2009/5/7	Y	N	N		-	DCD_12.03-12.04-17	-	2
		262	12.03-12.04-18	2009/5/7	N	N	N		-	-	N/A	N/A
		262	12.03-12.04-19	2009/5/7	N	N	N		-	-	N/A	N/A
		262	12.03-12.04-20	2009/5/7	N	N	N		-	-	N/A	N/A
		425	12.03-12.04-21	2009/9/4	Y	N	N		-	DCD_12.03-12.04-21	0	3
		428	12.03-12.04-22	2009/9/28	N	N	N		-	-	N/A	N/A
		428	12.03-12.04-23	2009/9/28	N	N	N		-	-	N/A	N/A
		428	12.03-12.04-24	2009/9/28	N	N	N		-	-	N/A	N/A
		429	12.03-12.04-25	2009/9/28	Y	N	N		-	DCD_12.03-12.04-25	0	3
		429	12.03-12.04-26	2009/9/28	Y	Y	N		-	DCD_12.03-12.04-26	0	3
		429	12.03-12.04-27	2009/9/28	Y	N	N		-	DCD_12.03-12.04-27	0	3
		429	12.03-12.04-28	2009/9/28	N	N	N		-	-	N/A	N/A

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		429	12.03-12.04-29	2009/9/28	N	N	N		-	-	N/A	N/A
		429	12.03-12.04-30	2009/9/28	Y	N	N		-	DCD_12.03-12.04-30	0	3
		429	12.03-12.04-31	2009/9/28	Y	N	N		-	DCD_12.03-12.04-31	0	3
		453	12.03-12.04-32	2009/9/16	N	N	N		-	-	N/A	N/A
		524	12.03-12.04-33	2010/3/12	N	N	N		-			
				2010/9/14	Y	Y	N		-	DCD_12.03-12.04-33	5	3
		524	12.03-12.04-34	2010/3/12	N	N	N		-	-	N/A	N/A
				2010/10/8	Y	Y	N		-	DCD_12.03-12.04-34	5	3
		524	12.03-12.04-35	2010/3/12	N	N	N		-			
				2010/9/14	Y	N	N		-	DCD_12.03-12.04-35	5	3
		524	12.03-12.04-36	2010/3/12	Y	N	N		-			
				2010/9/14	Y	N	N		-	DCD_12.03-12.04-36	5	3
		578	12.03-12.04-37	2010/7/30	Y	Y	N		-			
				2010/8/9	Y	Y	N		-	DCD_12.03-12.04-37	4	3
		578	12.03-12.04-38	2010/7/30	Y	N	N		-			
				2010/8/9	Y	N	N		-	DCD_12.03-12.04-38	4	3
		578	12.03-12.04-39	2010/7/30	Y	N	N		-			
				2010/8/9	Y	N	N		-	DCD_12.03-12.04-39	4	3
12.5	Operational Radiation											
	Protection Program											

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		613	13.06.02-20	10/20/2010	Y	N			-	DCD_13.06.02-20	6	3
				03/14/2011	Y	N	N		-		TBD	
		613	13.06.02-21	10/20/2010	Y	N			-	DCD_13.06.02-21	6	3
		613	13.06.02-22	10/20/2010	Y	N			-	DCD_13.06.02-22	6	3
		613	13.06.02-23	10/20/2010	Y	N			-	DCD_13.06.02-23	6	3
		613	13.06.02-24	10/20/2010	Y	N			-	DCD_13.06.02-24	6	3
		613	13.06.02-25	10/20/2010	Y	N			-	DCD_13.06.02-25	6	3
		613	13.06.02-26	10/20/2010	Y	N			-	DCD_13.06.02-26	6	3
13.7	Fitness for Duty											
App.13AA	Design, Construction and											
	Pre-operational Activities											

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
14.2	Initial Plant Test Program -	7	14.02-1	2008/6/27	Y	N	N	fin.	-	DCD_14.02-1	-	1
	Design Certification and	12	14.02-2	2008/7/18	Y	N	N	fin.	-	DCD_14.02-2	-	1
	New License Applicants	12	14.02-3	2008/7/18	Y	N	N	fin.	-	DCD_14.02-3	-	1
		12	14.02-4	2008/7/18	Y	N	N	fin.	-	DCD_14.02-4	-	1
		12	14.02-5	2008/7/18	Y	N	N	fin.	-	DCD_14.02-5	-	1
		12	14.02-6	2008/7/18	N	N	N	fin.	-	-	N/A	N/A
		12	14.02-7	2008/7/18	Y	N	N	fin.	-	DCD_14.02-7	-	1
		27	14.02-8	2008/7/31	Y	Y	N	fin.	-	DCD_14.02-8	0	2
		27	14.02-9	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		28	14.02-10	2008/7/31	Y	N	N	fin.	-	DCD_14.02-10	-	1
		28	14.02-11	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		28	14.02-12	2008/7/31	Y	N	N	fin.	-	DCD_14.02-12	-	1
		28	14.02-13	2008/7/31	Y	N	N	fin.	-	DCD_14.02-13	-	1
		28	14.02-14	2008/7/31	Y	N	N	fin.	-	DCD_14.02-14	-	1
		28	14.02-15	2008/7/31	Y	N	N	fin.	-	DCD_14.02-15	-	1
		28	14.02-16	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		28	14.02-17	2008/7/31	Y	N	N	fin.	-	DCD_14.02-17	-	1
		28	14.02-18	2008/7/31	Y	N	N	fin.	-	DCD_14.02-18	-	1
		28	14.02-19	2008/7/31	Y	N	N	fin.	-	DCD_14.02-19	0	2
		28	14.02-20	2008/7/31	Y	N	N	fin.	-	DCD_14.02-20	-	1
		28	14.02-21	2008/7/31	N	N	N	fin.	-	-	N/A	N/A
		28	14.02-22	2008/7/31	Y	N	N	fin.	-	DCD_14.02-22	-	1
		31	14.02-23	2008/8/29	Y	Y	N	fin.	-	DCD_14.02-23	0	2
		31	14.02-24	2008/8/29	Y	N	N	fin.	-	DCD_14.02-24	0	2
		33	14.02-25	2008/9/4	Y	N	N	fin.	-	DCD_14.02-25	0	2
		33	14.02-26	2008/9/4	Y	N	N	fin.	-	DCD_14.02-26	0	2
		33	14.02-27	2008/9/4	Y	N	N	fin.	-	DCD_14.02-27	0	2
		33	14.02-28	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-29	2008/9/4	Y	N	N	fin.	-	DCD_14.02-29	0	2
		33	14.02-30	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-31	2008/9/4	Y	N	N	fin.	-	DCD_14.02-31	0	2
		33	14.02-32	2008/9/4	Y	N	N	fin.	-	DCD_14.02-32	0	2
		33	14.02-33	2008/9/4	Y	N	N	fin.	-	DCD_14.02-33	0	2
		33	14.02-34	2008/9/4	Y	N	N	fin.	-	DCD_14.02-34	0	2
		33	14.02-35	2008/9/4	Y	N	N	fin.	-	DCD_14.02-35	0	2
		33	14.02-36	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-37	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-38	2008/9/4	N	N	N	fin.	-	DCD_14.02-38	0	1
		33	14.02-39	2008/9/4	Y	N	N	fin.	-	DCD_14.02-39	0	2
		33	14.02-40	2008/9/4	Y	N	N	fin.	-	DCD_14.02-40	0	2
		33	14.02-41	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-42	2008/9/4	Y	N	N	fin.	-	DCD_14.02-42	0	2
		33	14.02-43	2008/9/4	Y	N	N	fin.	-	DCD_14.02-43	0	2
		33	14.02-44	2008/9/4	Y	N	N	fin.	-	DCD_14.02-44	0	2
		33	14.02-45	2008/9/4	Y	N	N	fin.	-	DCD_14.02-45	0	2
		33	14.02-46	2008/9/4	Y	N	N	fin.	-	DCD_14.02-46	0	2
		33	14.02-47	2008/9/4	Y	N	N	fin.	-	DCD_14.02-47	0	2
		33	14.02-48	2008/9/4	Y	N	N	fin.	-	DCD_14.02-48	0	2
		33	14.02-49	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-50	2008/9/4	Y	N	N	fin.	-	DCD_14.02-50	0	2
		33	14.02-51	2008/9/4	Y	N	N	fin.	-	DCD_14.02-51	0	2
		33	14.02-52	2008/9/4	N	N	N	fin.	-	DCD_14.02-52	N/A	N/A
		33	14.02-53	2008/9/4	Y	N	N	fin.	-	DCD_14.02-53	0	2
		33	14.02-54	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-55	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-56	2008/9/4	Y	N	N	fin.	-	DCD_14.02-56	0	2
		33	14.02-57	2008/9/4	Y	N	N	fin.	-	DCD_14.02-57	0	2
		33	14.02-58	2008/9/4	Y	N	N	fin.	-	DCD_14.02-58	0	2
		33	14.02-59	2008/9/4	Y	N	N	fin.	-	DCD_14.02-59	0	2
		33	14.02-60	2008/9/4	Y	N	N	fin.	-	DCD_14.02-60	0	2
		33	14.02-61	2008/9/4	Y	N	N	fin.	-	DCD_14.02-61	0	2
		33	14.02-62	2008/9/4	Y	N	N	fin.	-	DCD_14.02-62	0	2
		33	14.02-63	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-64	2008/9/4	Y	N	N	fin.	-	DCD_14.02-64	0	2
		33	14.02-65	2008/9/4	Y	N	N	fin.	-	DCD_14.02-65	0	2
		33	14.02-66	2008/9/4	Y	N	N	fin.	-	DCD_14.02-66	0	2
		33	14.02-67	2008/9/4	Y	N	N	fin.	-	DCD_14.02-67	0	2
		33	14.02-68	2008/9/4	Y	N	N	fin.	-	DCD_14.02-68	0	2
		33	14.02-69	2008/9/4	Y	N	N	fin.	-	DCD_14.02-69	0	2
		33	14.02-70	2008/9/4	Y	N	N	fin.	-	DCD_14.02-70	0	2
		33	14.02-71	2008/9/4	Y	N	N	fin.	-	DCD_14.02-71	0	2

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		33	14.02-72	2008/9/4	Y	N	N	fin.	-	DCD_14.02-72	0	2
		33	14.02-73	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-74	2008/9/4	Y	N	N	fin.	-	DCD_14.02-74	0	2
		33	14.02-75	2008/9/4	Y	N	N	fin.	-	DCD_14.02-75	0	2
		33	14.02-76	2008/9/4	Y	N	N	fin.	-	DCD_14.02-76	0	2
		33	14.02-77	2008/9/4	Y	N	N	fin.	-	DCD_14.02-77	0	2
		33	14.02-78	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-79	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-80	2008/9/4	Y	N	N	fin.	-	DCD_14.02-80	0	2
		33	14.02-81	2008/9/4	N	N	N	fin.	-	-	N/A	N/A
		33	14.02-82	2008/9/4	Y	N	N	fin.	-	DCD_14.02-82	0	2
		33	14.02-83	2008/9/4	Y	N	N	fin.	-	DCD_14.02-83	0	2
		33	14.02-84	2008/9/4	Y	N	N	fin.	-	DCD_14.02-84	0	2
		33	14.02-85	2008/9/4	Y	N	N	fin.	-	DCD_14.02-85	0	2
		58	14.02-86	2008/9/18	Y	N	N	fin.	-	DCD_14.02-86	0	2
		70	14.02-87	2008/9/25	Y	N	N	fin.	-			
				2009/3/30	Y	Y	N	fin.		DCD_14.02-87	1	2
		78	14.02-88	2008/10/16	Y	N	N	fin.	-	DCD_14.02-88	0	2
		78	14.02-89	2008/10/16	Y	N	N	fin.	-	DCD_14.02-89	0	2
		93	14.02-90	2008/12/5	Y	Y	N	fin.	-	DCD_14.02-90	0	2
		102	14.02-91	2008/12/18	N	N	N	fin.	-	-	N/A	N/A
		102	14.02-92	2008/12/18	Y	N	N	fin.	-	DCD_14.02-92	0	2
		102	14.02-93	2008/12/18	Y	N	N	fin.	-	DCD_14.02-93	0	2
		102	14.02-94	2008/12/18	Y	N	N	fin.	-	DCD_14.02-94	0	2
		102	14.02-95	2008/12/18	N	N	N	fin.	-	-	N/A	N/A
		102	14.02-96	2008/12/18	Y	N	N	fin.	-	DCD_14.02-96	0	2
		102	14.02-97	2008/12/18	Y	N	N	fin.	-	DCD_14.02-97	0	2
		102	14.02-98	2008/12/18	Y	N	N	fin.	-	DCD_14.02-98	0	2
		102	14.02-99	2008/12/18	Y	N	N	fin.	-	DCD_14.02-99	0	2
		102	14.02-100	2008/12/18	Y	N	N	fin.	-	DCD_14.02-100	0	2
		102	14.02-101	2008/12/18	Y	N	N	fin.	-	DCD_14.02-101	0	2
		102	14.02-102	2008/12/18	Y	N	N	fin.	-	DCD_14.02-102	0	2
		102	14.02-103	2008/12/18	Y	N	N	fin.	-	DCD_14.02-103	0	2
		102	14.02-104	2008/12/18	Y	N	N	fin.	-	DCD_14.02-104	0	2
		102	14.02-105	2008/12/18	N	N	N	fin.	-	-	N/A	N/A
		102	14.02-106	2008/12/18	Y	N	N	fin.	-	DCD_14.02-106	0	2
		123	14.02-107	2008/12/18	Y	N	N	fin.	-	DCD_14.02-107	0	2
		194	14.02-108	2009/2/24	Y	N	N		-			
				2009/4/1	Y	N	N		-	DCD_14.02-108	2	2
		243	14.02-109	2009/3/27	Y	Y	N	fin.	-	DCD_14.02-109	1	2
		243	14.02-110	2009/3/27	Y	N	N	fin.	-	DCD_14.02-110	1	2
		243	14.02-111	2009/3/27	Y	N	N	fin.	-	DCD_14.02-111	1	2
		243	14.02-112	2009/3/27	Y	Y	N	fin.	-	DCD_14.02-112	1	2
		271	14.02-113	2009/3/30	Y	Y	N	fin.	-	DCD_14.02-113	3	2
		271	14.02-114	2009/3/30	Y	Y	N	fin.	-	DCD_14.02-114	1	2
		337	14.02-115	2009/5/18	Y	N	N		-	DCD_14.02-115	2	2
		337	14.02-116	2009/5/18	Y	Y	N		-	DCD_14.02-116	2	2
		371	14.02-117	2009/6/17	Y	N	N		-	DCD_14.02-117	3	2
		409	14.02-118	2009/7/10	Y	N	N		-	DCD_14.02-118	3	2
		-	-	-	-	-	-	-	COL 14.2(3) deleted	MAP-14-001	0	2
		455	14.02-119	2009/10/1	Y	N	N		-	DCD_14.02-119	-	2
		521	14.02-120	2010/2/5	Y	Y	N		-	DCD_14.02-120	2	3
		554	14.02-121	2010/4/15	Y	N	N		-	DCD_14.02-121	3	3
		600	14.02-122	2010/7/20	Y	Y	N		-	DCD_14.02-122	4	3
		678	14.02-123	2011/3/1	Y	N	N		-	DCD_14.02-123	0	
		739	14.02-124	2011/6/7	N	N	N		-	-	N/A	N/A
		759	14.02-125	2011/7/20	Y	N	N		-	DCD_14.02-125	1	
14.3	Inspections, Tests, Analyses,	32	14.03-1	2008/8/29	Y	Y	N	fin.	-	DCD_14.03-1	0	2
	and Acceptance Criteria	32	14.03-2	2008/8/29	N	N	N	fin.	-	-	N/A	N/A
		32	14.03-3	2008/8/29	N	N	N	fin.	-	-	N/A	N/A
		32	14.03-4	2008/8/29	Y	Y	N	fin.	-	DCD_14.03-4	-	2
		32	14.03-5	2008/8/29	N	N	N	fin.	-	-	N/A	N/A
		156	14.3-1	2009/2/5	Y	N	N	fin.	-	DCD_14.3-1	1	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		156	14.3-2	2009/2/5	Y	N	N	fin.	-	DCD_14.3-2	1	2

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14.3.2	Structural and Systems Engineering	190	14.03.02-2	2009/3/3	Y	N	N		-	DCD_14.03.02-2	2	2
	Inspections, Tests, Analyses,	190	14.03.02-3	2009/3/3	Y	N	N		-	DCD_14.03.02-3	2	2
	and Acceptance Criteria	190	14.03.02-4	2009/3/3	N	N	N		-	-	N/A	N/A
		190	14.03.02-5	2009/3/3	Y	N	N		-	DCD_14.03.02-5	-	2
		190	14.03.02-6	2009/3/3	Y	N	N		-	DCD_14.03.02-6	2	2
		190	14.03.02-7	2009/3/3	Y	N	N		-	DCD_14.03.02-7	2	2
		190	14.03.02-8	2009/3/3	Y	N	N		-	DCD_14.03.02-8	2	2
		452	14.03.02-9	2009/10/1	Y	N	N		-	DCD_14.03.02-9	-	2
		452	14.03.02-10	2009/10/1	Y	N	N		-	DCD_14.03.02-10	-	2
		452	14.03.02-11	2009/10/1	Y	N	N		-	DCD_14.03.02-11	-	2
		452	14.03.02-12	2009/10/1	Y	N	N		-	DCD_14.03.02-12	-	2
		452	14.03.02-13	2009/10/8	Y	N	N		-	DCD_14.03.02-13	-	2
		452	14.03.02-14	2009/10/1	Y	N	N		-	DCD_14.03.02-14	-	2
		596	14.03.02-15	2010/7/5	Y	N	N		-	DCD_14.03.02-15	4	3
		596	14.03.02-16	2010/7/5	Y	N	N		-	DCD_14.03.02-16	4	3
		596	14.03.02-17	2010/7/5	Y	N	N		-	DCD_14.03.02-17	4	3
		596	14.03.02-18	2010/7/5	Y	N	N		-	DCD_14.03.02-18	4	3
		596	14.03.02-19	2010/7/5	Y	N	N		-	DCD_14.03.02-19	4	3
14.3.3	Piping Systems and Components	242	14.03.03-1	2009/4/27	N	N	N		-	-	N/A	N/A
	and Acceptance Criteria	242	14.03.03-2	2009/4/27	N	N	N		-	-	N/A	N/A
		242	14.03.03-3	2009/4/27	Y	N	N		-	DCD_14.03.03-3	3	2
		242	14.03.03-4	2009/4/27	Y	N	N		-	DCD_14.03.03-4	2	2
		242	14.03.03-5	2009/4/27	Y	N	N		-	DCD_14.03.03-5	3	2
		242	14.03.03-6	2009/4/27	Y	N	N		-	DCD_14.03.03-6	3	2
		242	14.03.03-7	2009/4/27	Y	N	N		-	DCD_14.03.03-7	3	2
		242	14.03.03-8	2009/4/27	Y	N	N		-	DCD_14.03.03-8	3	2
		242	14.03.03-9	2009/4/27	Y	N	N		-	DCD_14.03.03-9	3	2
		242	14.03.03-10	2009/4/27	Y	N	N		-	DCD_14.03.03-10	3	2
		242	14.03.03-11	2009/4/27	Y	N	N		-	DCD_14.03.03-11	3	2
		242	14.03.03-12	2009/4/27	Y	N	N		-	DCD_14.03.03-12	3	2
		242	14.03.03-13	2009/4/27	Y	N	N		-	DCD_14.03.03-13	3	2
		242	14.03.03-14	2009/4/27	Y	N	N		-	DCD_14.03.03-14	3	2
		242	14.03.03-15	2009/4/27	Y	N	N		-	DCD_14.03.03-15	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		242	14.03.03-16	2009/4/27	Y	N	N		-	DCD_14.03.03-16	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		404	14.03.03-17	2009/7/31	Y	N	N		-	DCD_14.03.03-17	4	2
		404	14.03.03-18	2009/7/31	Y	N	N		-	DCD_14.03.03-18	4	2
		404	14.03.03-19	2009/7/31	Y	N	N		-	DCD_14.03.03-19	4	2
		404	14.03.03-20	2009/7/31	Y	N	N		-	DCD_14.03.03-20	4	2
		404	14.03.03-21	2009/7/31	Y	N	N		-	DCD_14.03.03-21	4	2
		404	14.03.03-22	2009/7/31	Y	N	N		-	DCD_14.03.03-22	4	2
		499	14.03.03-23	2009/12/16	Y	N	N		-	DCD_14.03.03-23	1	3
		743	14.03.03-24	2011/5/26	Y	N	N		-	DCD_14.03.03-24	0	
		743	14.03.03-25	2011/5/26	N	N	N		-	-	N/A	N/A
14.3.4	Reactor Systems -	191	14.03.04-1	2009/4/7	Y	N	N		-	DCD_14.03.04-1	3	2
		191	14.03.04-2	2009/4/7	Y	N	N		-	DCD_14.03.04-2	3	2
		191	14.03.04-3	2009/4/7	Y	N	N		-	DCD_14.03.04-3	3	2
		191	14.03.04-4	2009/4/7	Y	N	N		-	DCD_14.03.04-4	3	2
		191	14.03.04-5	2009/4/7	Y	N	N		-	DCD_14.03.04-5	2	2
		191	14.03.04-6	2009/4/7	Y	N	N		-	DCD_14.03.04-6	3	2
		191	14.03.04-7	2009/4/7	Y	N	N		-	DCD_14.03.04-7	3	2
		191	14.03.04-8	2009/4/7	Y	N	N		-	DCD_14.03.04-8	3	2
		191	14.03.04-9	2009/4/7	Y	N	N		-	DCD_14.03.04-9	3	2
		192	14.03.04-10	2009/4/10	Y	N	N		-	DCD_14.03.04-10	3	2
		192	14.03.04-11	2009/4/10	Y	N	N		-	DCD_14.03.04-11	3	2
		192	14.03.04-12	2009/4/10	Y	N	N		-	DCD_14.03.04-12	3	2
		192	14.03.04-13	2009/4/10	Y	N	N		-	DCD_14.03.04-13	3	2
		192	14.03.04-14	2009/4/10	Y	N	N		-	DCD_14.03.04-14	3	2
		192	14.03.04-15	2009/4/10	Y	N	N		-	DCD_14.03.04-15	3	2
		192	14.03.04-16	2009/4/10	Y	N	N		-	DCD_14.03.04-16	3	2
		192	14.03.04-17	2009/4/10	Y	N	N		-	DCD_14.03.04-17	3	2
		192	14.03.04-18	2009/4/10	Y	N	N		-	DCD_14.03.04-18	3	2
		193	14.03.04-19	2009/4/9	Y	N	N		-	DCD-14.03.04-19	3	2
		193	14.03.04-20	2009/4/9	Y	N	N		-	DCD-14.03.04-20	3	2

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		193	14.03.04-21	2009/4/9	Y	N	N		-	DCD-14.03.04-21	3	2
		193	14.03.04-22	2009/4/9	Y	N	N		-	DCD-14.03.04-22	3	2
		193	14.03.04-23	2009/4/9	Y	N	N		-	DCD-14.03.04-23	3	2
		193	14.03.04-24	2009/4/9	Y	N	N		-	DCD-14.03.04-24	3	2
		193	14.03.04-25	2009/4/9	Y	N	N		-	DCD-14.03.04-25	3	2
		193	14.03.04-26	2009/4/9	Y	N	N		-	DCD-14.03.04-26	3	2
		193	14.03.04-27	2009/4/9	Y	N	N		-	DCD-14.03.04-27	3	2
		193	14.03.04-28	2009/4/9	Y	N	N		-	DCD-14.03.04-28	3	2
		193	14.03.04-29	2009/4/9	Y	N	N		-	DCD-14.03.04-29	3	2
		193	14.03.04-30	2009/4/9	Y	N	N		-	DCD-14.03.04-30	3	2
		196	14.03.04-31	2009/3/5	Y	N	N		-	DCD_14.03.04-31	2	2
		196	14.03.04-32	2009/3/5	Y	N	N		-	DCD_14.03.04-32	2	2
		196	14.03.04-33	2009/3/5	Y	N	N		-	DCD_14.03.04-33	2	2
		196	14.03.04-34	2009/3/5	Y	N	N		-	DCD_14.03.04-34	2	2
		196	14.03.04-35	2009/3/5	Y	N	N		-	DCD_14.03.04-35	2	2
		373	14.03.04-36	2009/6/16	N	N	N		-	-	N/A	N/A
		373	14.03.04-37	2009/6/16	N	N	N		-	-	N/A	N/A
		373	14.03.04-38	2009/6/16	N	N	N		-	-	N/A	N/A
		373	14.03.04-39	2009/6/16	N	N	N		-	-	N/A	N/A
		373	14.03.04-40	2009/6/16	N	N	N		-	-	N/A	N/A
		446	14.03.04-41	2009/9/28	Y	N	N		-	DCD_14.03.04-41	-	2
		503	14.03.04-42	2009/12/21	Y	N	N		-	DCD_14.03.04-42	1	3
14.3.5	Instrumentation and Controls -	181	14.03.05-1	2009/4/6	N	N	N		-	-	N/A	N/A
		181	14.03.05-2	2009/4/6	N	N	N		-	-	N/A	N/A
		181	14.03.05-3	2009/4/6	Y	N	N		-	DCD-14.03.05-3	3	2
		181	14.03.05-4	2009/4/6	Y	Y	N		-	DCD-14.03.05-4	3	2
		181	14.03.05-5	2009/4/6	Y	N	N		-	DCD-14.03.05-5	3	2
		181	14.03.05-6	2009/4/6	Y	N	N		-	DCD-14.03.05-6	3	2
		181	14.03.05-7	2009/4/6	N	N	N		-	-	N/A	
		181	14.03.05-8	2009/4/6	Y	N	N		-	DCD-14.03.05-8	3	2
		181	14.03.05-9	2009/4/6	Y	N	N		-	DCD-14.03.05-9	3	2
		255	14.03.05-10	2009/4/28	Y	N	N		-	DCD-14.03.05-10	3	2
		255	14.03.05-11	2009/4/28	Y	N	N		-	DCD-14.03.05-11	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		255	14.03.05-12	2009/4/28	Y	N	N		-	DCD-14.03.05-12	3	2
				5/31/2011	Y	N	N		-	DCD_14.03.05-12	0	
		255	14.03.05-13	2009/4/28	Y	N	N		-	DCD-14.03.05-13	3	2
		255	14.03.05-14	2009/4/28	Y	N	N		-	DCD-14.03.05-14	3	2
		255	14.03.05-15	2009/4/28	Y	N	N		-	DCD-14.03.05-15	3	2
		255	14.03.05-16	2009/4/28	Y	N	N		-	DCD-14.03.05-16	3	2
		255	14.03.05-17	2009/4/28	Y	N	N		-	DCD-14.03.05-17	3	2
		255	14.03.05-18	2009/4/28	Y	N	N		-	DCD-14.03.05-18	3	2
		255	14.03.05-19	2009/4/28	Y	N	N		-	DCD-14.03.05-19	3	2
		255	14.03.05-20	2009/4/28	Y	N	N		-	DCD-14.03.05-20	3	2
		255	14.03.05-21	2009/4/28	Y	N	N		-	DCD-14.03.05-21	3	2
		275	14.03.05-22	2009/4/28	Y	N	N		-	DCD-14.03.05-22	3	2
		275	14.03.05-23	2009/4/28	Y	N	N		-	DCD-14.03.05-23	3	2
		275	14.03.05-24	2009/4/28	Y	N	N		-	DCD-14.03.05-24	3	2
		275	14.03.05-25	2009/4/28	Y	N	N		-	DCD-14.03.05-25	3	2
		275	14.03.05-26	2009/4/28	Y	N	N		-	DCD-14.03.05-26	3	2
		275	14.03.05-27	2009/4/28	-	N	N		-	-	N/A	N/A
		275	14.03.05-28	2009/4/28	Y	N	N		-	DCD-14.03.05-28	3	2
		275	14.03.05-29	2009/4/28	Y	N	N		-	DCD-14.03.05-29	3	2
		275	14.03.05-30	2009/4/28	N	N	N		-	-	N/A	N/A
		275	14.03.05-31	2009/4/28	N	N	N		-	-	N/A	N/A
				5/31/2011	Y	N	N		-	DCD_14.03.05-31	0	
		515	14.03.05-32	2010/1/28	Y	N	N		-	DCD_14.03.05-32	2	3
14.3.6	Electrical Systems -	182	14.03.06-06	2009/4/6	Y	N	N		-	DCD-14.03.06-06	3	2
	Inspections, Tests, Analyses,	182	14.03.06-07	2009/4/6	Y	N	N		-	DCD-14.03.06-07	3	2
	and Acceptance Criteria	182	14.03.06-08	2009/4/6	Y	N	N		-	DCD-14.03.06-08	3	2
		182	14.03.06-09	2009/4/6	Y	N	N		-	DCD-14.03.06-09	3	2
		182	14.03.06-10	2009/4/6	Y	N	N		-	DCD-14.03.06-10	3	2
		182	14.03.06-11	2009/4/6	Y	N	N		-	DCD-14.03.06-11	3	2
		182	14.03.06-12	2009/4/6	Y	N	N		-	DCD-14.03.06-12	3	2
		182	14.03.06-13	2009/4/6	Y	N	N		-	DCD-14.03.06-13	3	2
		182	14.03.06-14	2009/4/6	Y	N	N		-	DCD-14.03.06-14	3	2
		424	14.03.06-15	2009/9/8	Y	Y	N		-	DCD-14.03.06-15	-	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		424	14.03.06-16	2009/9/8	Y	Y	N		-	DCD-14.03.06-16	4	2
		424	14.03.06-17	2009/9/8	Y	N	N		-	DCD-14.03.06-17	-	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		424	14.03.06-18	2009/9/8	Y	N	N		-	DCD-14.03.06-18	-	2
		651	14.03.06-19	2011/2/17	N	N	N		-	-	N/A	N/A
		754	14.03.06-20	2011/7/15	Y	N	N		-	DCD_14.03.06-20	TBD	
		754	14.03.06-21	2011/7/15	N	N	N		-	-	N/A	N/A
		754	14.03.06-22	2011/7/15	Y	N	N		-	DCD_14.03.06-22	TBD	
		754	14.03.06-23	2011/7/15	Y	N	N		-	DCD_14.03.06-23	TBD	
		754	14.03.06-24	2011/7/15	Y	N	N		-	DCD_14.03.06-24	TBD	
		754	14.03.06-25	2011/7/15	Y	N	N		-	DCD_14.03.06-25	TBD	
		754	14.03.06-26	2011/7/15	Y	N	N		-	DCD_14.03.06-26	TBD	
		754	14.03.06-27	2011/7/15	N	N	N		-	-	N/A	N/A
		754	14.03.06-28	2011/7/15	Y	N	N		-	DCD_14.03.06-28	1	
14.3.7	Plant Systems -	54	14.03.07-1/14.3.7.3.1-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
	Inspections, Tests, Analyses,	54	14.03.07-1/14.3.7.3.1-2	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
	and Acceptance Criteria	54	14.03.07-1/14.3.7.3.1-3	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.01-3	4	2
		54	14.03.07-2/14.3.7.3.2-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-2	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-3	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-4	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-5	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-5	1	2
		54	14.03.07-2/14.3.7.3.2-6	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-6	1	2
		54	14.03.07-2/14.3.7.3.2-7	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-8	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-8	1	2
		54	14.03.07-2/14.3.7.3.2-9	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-10	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-11	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-11	2	2
		54	14.03.07-2/14.3.7.3.2-12	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-13	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-14	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-14	1	2
		54	14.03.07-2/14.3.7.3.2-15	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-15	1	2
		54	14.03.07-2/14.3.7.3.2-16	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-16	1	2
		54	14.03.07-2/14.3.7.3.2-17	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-17	3	2
		54	14.03.07-2/14.3.7.3.2-18	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-18	0	2
		54	14.03.07-2/14.3.7.3.2-19	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-20	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-21	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.02-21	0	2
		54	14.03.07-2/14.3.7.3.2-22	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-2/14.3.7.3.2-23	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-2	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-3	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-4	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-5	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-6	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.04-6	1	2
		54	14.03.07-3/14.3.7.3.4-7	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-8	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-9	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.04-9	1	2
		54	14.03.07-3/14.3.7.3.4-10	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.04-10	0	2
		54	14.03.07-3/14.3.7.3.4-11	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.04-11	3	2
		54	14.03.07-3/14.3.7.3.4-12	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.04-12	0	2
		54	14.03.07-3/14.3.7.3.4-13	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-14	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-3/14.3.7.3.4-15	2008/9/19	N	N	N	fin.	-			
				2009/1/9	Y	N	N		-	DCD_14.03.07.03.04-15	2	2
		54	14.03.07-4/14.3.7.3.5-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-2	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-3	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-4	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-4	0	2
		54	14.03.07-5/14.3.7.3.6-5	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-5	4	2
		54	14.03.07-5/14.3.7.3.6-6	2008/9/19	Y	Y	N	fin.	-	DCD_14.03.07.03.06-6	3	2
		54	14.03.07-5/14.3.7.3.6-7	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-7	3	2
		54	14.03.07-5/14.3.7.3.6-8	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-8	1	2
		54	14.03.07-5/14.3.7.3.6-9	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-9	2	2
		54	14.03.07-5/14.3.7.3.6-10	2008/9/19	N	N	N	fin.	-			

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
				2009/1/9	Y	N	N	fin.	-	DCD_14.03.07.03.06-10	2	2
		54	14.03.07-5/14.3.7.3.6-11	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-12	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-13	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-13	2	2
		54	14.03.07-5/14.3.7.3.6-14	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-14	3	2
		54	14.03.07-5/14.3.7.3.6-15	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-16	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-16	1	2
		54	14.03.07-5/14.3.7.3.6-17	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-17	1	2
		54	14.03.07-5/14.3.7.3.6-18	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-19	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-20	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-20	3	2
		54	14.03.07-5/14.3.7.3.6-21	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-5/14.3.7.3.6-22	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-22	3	2
		54	14.03.07-5/14.3.7.3.6-23	2008/9/19	Y	N	N	fin.	-	DCD_14.03.07.03.06-23	0	2
		54	14.03.07-6/14.3.7.3.7-1	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-6/14.3.7.3.7-2	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-6/14.3.7.3.7-3	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		54	14.03.07-6/14.3.7.3.7-4	2008/9/19	N	N	N	fin.	-	-	N/A	N/A
		183	14.03.07-7	2009/4/6	Y	N	N			DCD-14.03.07-7	3	2
		183	14.03.07-8	2009/4/6	Y	N	N			DCD-14.03.07-8	3	2
		183	14.03.07-9	2009/4/6	Y	N	N			DCD-14.03.07-9	3	2
		183	14.03.07-10	2009/4/6	Y	N	N			DCD-14.03.07-10	3	2
		183	14.03.07-11	2009/4/6	Y	N	N			DCD-14.03.07-11	3	2
		183	14.03.07-12	2009/4/6	Y	N	N			DCD-14.03.07-12	3	2
		183	14.03.07-13	2009/4/6	Y	N	N			DCD-14.03.07-13	3	2
		183	14.03.07-14	2009/4/6	Y	N	N			DCD-14.03.07-14	3	2
		183	14.03.07-15	2009/4/6	N	N	N			-	N/A	N/A
		447	14.03-01	2009/9/14	Y	N	N		-	DCD-14.03-1	-	2
		184	14.03.07-16	2009/4/9	Y	N	N		-	DCD_14.03.07-16	3	2
		184	14.03.07-17	2009/4/9	Y	N	N		-	DCD_14.03.07-17	3	2
		184	14.03.07-18	2009/4/9	Y	N	N		-	DCD_14.03.07-18	3	2
		184	14.03.07-19	2009/4/9	Y	N	N		-	DCD_14.03.07-19	3	2
		184	14.03.07-20	2009/4/9	Y	N	N		-	DCD_14.03.07-20	3	2
		184	14.03.07-21	2009/4/9	Y	N	N		-	DCD_14.03.07-21	3	2
		184	14.03.07-22	2009/4/9	Y	N	N		-	DCD_14.03.07-22	3	2
		184	14.03.07-23	2009/4/9	Y	N	N		-	DCD_14.03.07-23	3	2
		184	14.03.07-24	2009/4/9	Y	N	N		-	DCD_14.03.07-24	3	2
		184	14.03.07-25	2009/4/9	Y	N	N		-	DCD_14.03.07-25	3	2
		184	14.03.07-26	2009/4/9	Y	N	N		-	DCD_14.03.07-26	3	2
		184	14.03.07-27	2009/4/9	Y	N	N		-	DCD_14.03.07-27	3	2
		184	14.03.07-28	2009/4/9	N	N	N		-	-	N/A	N/A
		184	14.03.07-29	2009/4/9	Y	N	N		-	DCD_14.03.07-29	3	2
		184	14.03.07-30	2009/4/9	N	N	N		-	-	N/A	N/A
		184	14.03.07-31	2009/4/9	Y	N	N		-	DCD_14.03.07-31	3	2
		184	14.03.07-32	2009/4/9	Y	N	N		-	DCD_14.03.07-32	3	2
		184	14.03.07-33	2009/4/9	Y	N	N		-	DCD_14.03.07-33	3	2
		447	14.03-02	2009/9/14	Y	N	N		-	DCD-14.03-2	-	2
		184	14.03.07-34	2009/4/9	Y	N	N		-	DCD_14.03.07-34	3	2
		381	14.03.07-35	2009/7/17	Y	N	N		-	DCD_14.03.07-35	4	2
		381	14.03.07-36	2009/7/17	Y	N	N		-	DCD_14.03.07-36	4	2
		381	14.03.07-37	2009/7/17	Y	N	N		-	DCD_14.03.07-37	4	2
		381	14.03.07-38	2009/7/17	Y	N	N		-	DCD_14.03.07-38	4	2
		381	14.03.07-39	2009/7/17	N	N	N		-	-	N/A	N/A
		381	14.03.07-40	2009/7/17	N	N	N		-	-	N/A	N/A
		381	14.03.07-41	2009/7/17	Y	N	N		-	DCD_14.03.07-41	4	2
		381	14.03.07-42	2009/7/17	Y	N	N		-	DCD_14.03.07-42	4	2
		381	14.03.07-43	2009/7/17	Y	N	N		-	DCD_14.03.07-43	4	2
		381	14.03.07-44	2009/7/17	Y	N	N		-	DCD_14.03.07-44	4	2
		381	14.03.07-45	2009/7/17	Y	N	N		-	DCD_14.03.07-45	-	2
		381	14.03.07-46	2009/7/17	N	N	N		-	-	N/A	N/A
		381	14.03.07-47	2009/7/17	N	N	N		-	-	N/A	N/A
		456	14.03.07-48	2009/10/5	Y	N	N		-	DCD_14.03.07-48	-	2
		456	14.03.07-49	2009/10/5	Y	N	N		-	DCD_14.03.07-49	-	2
		508	14.03.07-50	2009/12/24	Y	N	N		-	DCD_14.03.07-50	1	3
		599	14.03.07-51	2010/7/20	N	N	N		-	-	N/A	N/A
		599	14.03.07-52	2010/7/20	Y	N	N		-	DCD_14.03.07-52	4	3
		675	14.03.07-53	2011/1/31	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		675	14.03.07-54	2011/1/31	N	N	N		-	-	N/A	N/A
		675	14.03.07-55	2011/1/31	Y	Y	N		-	DCD_14.03.07-55	0	
		675	14.03.07-56	2011/1/31	Y	N	N		-	DCD_14.03.07-56	0	
		685	14.03.07-57	2011/2/21	N	N	N		-	-	N/A	N/A
		782	14.03.07-58	2011/8/8	N	N	N		-	-	N/A	N/A
14.3.8	Radiation Protection -											
	Inspections, Tests, Analyses,											
	and Acceptance Criteria											
14.3.9	Human Factors Engineering -	372	14.03.09-1	2009/6/11	Y	N	N		-	DCD_14.03.09-1	3	2
	Inspections, Tests, Analyses,	372	14.03.09-2	2009/6/11	Y	N	N		-	DCD_14.03.09-2	3	2
	and Acceptance Criteria	372	14.03.09-3	2009/6/11	Y	N	N		-	DCD_14.03.09-3	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		372	14.03.09-4	2009/6/11	Y	N	N		-	DCD_14.03.09-4	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		372	14.03.09-5	2009/6/11	Y	N	N		-	DCD_14.03.09-5	3	2
				2011/6/7	N	N	N		-	-	N/A	N/A
		405	14.03.09-6	2009/6/26	Y	N	N		-	DCD_14.03.09-6	3	2
		560	14.03.09-7	2010/4/23	Y	N	N		-	DCD_14.03.09-7	3	3
		560	14.03.09-8	2010/4/23	Y	N	N		-	DCD_14.03.09-8	3	3
		838	14.03.09-9	10/27/2011	N	N	N		-	-	N/A	N/A
		838	14.03.09-10	10/27/2011	N	N	N		-	-	N/A	N/A
14.3.10	Emergency Planning -	195	14.03.10-01	2009/3/5	Y	N	N		-	DCD_14.03.10-01	2	2
	Inspections, Tests, Analyses,			2011/6/7	N	Y	N		-	-	N/A	N/A
	and Acceptance Criteria	195	14.03.10-02	2009/3/5	Y	N	N		-	DCD_14.03.10-02	2	2
		611	14.03.10-13	2010/7/27	Y	N	N		-	DCD_14.03.10-13	4	3
14.3.11	Containment Systems -	51	14.03.11-1	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-1	3	2
	Inspections, Tests, Analyses,	51	14.03.11-2	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-2	3	2
	and Acceptance Criteria	51	14.03.11-3	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-3	3	2
		51	14.03.11-4	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-5	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-5	0	2
		51	14.03.11-6	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-6	3	2
		51	14.03.11-7	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-8	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-8	3	2
		51	14.03.11-9	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-10	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-11	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-11	0	2
		51	14.03.11-12	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-12	0	2
		51	14.03.11-13	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-14	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-14	0	2
		51	14.03.11-15	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		51	14.03.11-16	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-16	3	2
		51	14.03.11-17	2008/9/18	Y	N	N	fin.	-	DCD_14.03.11-17	0	2
		198	14.03.11-18	2009/4/9	Y	N	N		-	DCD_14.03.11-18	3	2
		198	14.03.11-19	2009/4/9	N	N	N		-	-	N/A	N/A
		198	14.03.11-20	2009/4/9	Y	N	N		-	DCD_14.03.11-20	3	2
		198	14.03.11-21	2009/4/9	Y	N	N		-	DCD_14.03.11-21	3	2
		198	14.03.11-22	2009/4/9	Y	N	N		-	DCD_14.03.11-22	3	2
		198	14.03.11-23	2009/4/9	Y	N	N		-	DCD_14.03.11-23	3	2
		198	14.03.11-24	2009/4/9	Y	N	N		-	DCD_14.03.11-24	3	2
		198	14.03.11-25	2009/4/9	Y	N	N		-	DCD_14.03.11-25	3	2
		198	14.03.11-26	2009/4/9	Y	N	N		-	DCD_14.03.11-26	3	2
		198	14.03.11-27	2009/4/9	Y	N	N		-	DCD_14.03.11-27	3	2
		222	14.03.11-28	2009/4/23	Y	N	N		-	DCD_14.03.11-28	3	2
		222	14.03.11-29	2009/4/23	Y	N	N		-	DCD_14.03.11-29	3	2
		222	14.03.11-30	2009/4/23	Y	Y	N		-	DCD_14.03.11-30	3	2
		222	14.03.11-31	2009/4/23	Y	N	N		-	DCD_14.03.11-31	3	2
		222	14.03.11-32	2009/4/23	Y	N	N		-	DCD_14.03.11-32	3	2
		222	14.03.11-33	2009/4/23	N	N	N		-	-	N/A	N/A
		222	14.03.11-34	2009/4/23	Y	N	N		-	DCD_14.03.11-34	3	2
		222	14.03.11-35	2009/4/23	Y	N	N		-	DCD_14.03.11-35	3	2
		222	14.03.11-36	2009/4/23	Y	N	N		-	DCD_14.03.11-36	3	2
		222	14.03.11-37	2009/4/23	Y	N	N		-	DCD_14.03.11-37	3	2
		348	14.03.11-38	2009/6/11	Y	N	N		-	DCD_14.03.11-38	3	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		348	14.03.11-39	2009/6/11	Y	N	N		-	DCD_14.03.11-39	3	2
		488	14.03.11-40	12/25/09	Y	N	N					
				2010/1/13	Y	N	N		-	DCD_14.3.4.11-40	1	3
		488	14.03.11-41	12/25/09	N	N	N					
				2010/1/13	N	N	N		-	-	N/A	N/A
		488	14.03.11-42	12/25/09	Y	N	N					
				2010/1/13	Y	N	N		-	DCD_14.3.4.11-42	1	3
		550	14.03.11-43	2010/3/25	Y	N	N		-	DCD_14.3.4.11-43	3	3
14.3.12	Physical Security Hardware -	52	14.03.12-1	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
	Inspections, Tests, Analyses,	52	14.03.12-2	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
	and Acceptance Criteria	52	14.03.12-3	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-4	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-5	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-6	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-7	2008/9/18	Y	N	N	fin.	-	DCD_14.03.12-7	-	2
		52	14.03.12-8	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-9	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-10	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		52	14.03.12-11	2008/9/18	Y	N	N	fin.	-	DCD_14.03.12-11	4	2
		261	14.03.12-12	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-13	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-14	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-15	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-16	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-17	2009/4/3	N	N	N		-	-	N\A	N\A
		261	14.03.12-18	2009/4/3	N	N	N		-	-	N\A	N\A
		396	14.03.12-20	2009/7/17	Y	N	N		-	DCD_14.03.12-20	2	3
		396	14.03.12-21	2009/7/17	N	N	N		-	-	N\A	N\A
		396	14.03.12-22	2009/7/17	N	N	N		-	-	N\A	N\A
		396	14.03.12-23	2009/7/17	N	N	N		-	-	N\A	N\A
		396	14.03.12-24	2009/7/17	N	N	N		-	-	N\A	N\A
		481	14.03.12-25	11/10/2009	N	N	N		-	-	N\A	N/A
		481	14.03.12-26	11/10/2009	Y	N	N		-	DCD_14.03.12-26	0	3
		481	14.03.12-27	11/10/2009	Y	N	N		-	DCD_14.03.12-27	0	3
		481	14.03.12-28	11/10/2009	N	N	N		-	-	N\A	N/A
		481	14.03.12-29	11/10/2009	Y	N	N		-	DCD_14.03.12-29	0	3
		481	14.03.12-30	11/10/2009	Y	N	N		-	DCD_14.03.12-30	0	3
		673	14.03.12-31	2010/12/22	N	N	N		-	-	N\A	N/A

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15	Introduction -	297	15.0.0-1	2009/7/3	Y	N	N		-	DCD_15.0.0-1	4	2
	Transient and Accident Analyses	297	15.0.0-2	2009/7/3	Y	N	N		-	DCD_15.0.0-2	4	2
		297	15.0.0-3	2009/7/3	Y	N	N		-	DCD_15.0.0-3	4	2
		297	15.0.0-4	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-5	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-6	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-7	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-8	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-9	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-10	2009/7/3	N	N	N		-	-	N/A	N/A
				2011/12/20	N	N	N		-	-	N/A	N/A
		297	15.0.0-11	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-12	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-13	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-14	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-15	2009/7/3	Y	N	N		-	DCD_15.0.0-15	4	2
		297	15.0.0-16	2009/7/3	N	N	N		-	-	N/A	N/A
				12/20/2011	N	N	N		-	-	N/A	N/A
		297	15.0.0-17	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-18	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-19	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-20	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-21	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-22	2009/7/3	N	N	N		-	-	N/A	N/A
		297	15.0.0-23	2009/7/3	N	N	N		-	-	N/A	N/A
		687	15.0.0-24	2011/2/25	Y	N	N		-	DCD_15.0.0-24	0	
				2011/9/9	Y	N	N		-	DCD_15.0.0-24	1	
		769	15.0.0-25	2011/7/15	N	N	N		-	-	N/A	N/A
		769	15.0.0-26	2011/7/15	Y	N	N		-	DCD_15.0.0-26	1	
				2011/9/9	Y	N	N		-	DCD_15.0.0-26	1	
		769	15.0.0-27	2011/7/15	N	N	N		-	-	N/A	N/A
				2011/9/9	N	N	N		-	-	N/A	N/A
		769	15.0.0-28	2011/7/15	N	N	N		-	-	N/A	N/A
		769	15.0.0-29	2011/7/15	N	N	N		-	-	N/A	N/A
				2011/9/9	N	N	N		-	-	N/A	N/A
		786	15-30	8/25/2011	Y	N	N		-	DCD_15-30	1	
		786	15-31	8/25/2011	Y	N	N		-	DCD_15-31	1	
		786	15-32	8/25/2011	N	N	N		-	-	N/A	N/A
		809	15-33	9/30/2011	Y	N	N		-	DCD_15-33	1	
		809	15-34	9/30/2011	Y	N	N		-	DCD_15-34	TBD	
		864	15-35	12/07/2011	N	N	N		-	-	N/A	N/A
		864	15-36	12/07/2011	N	N	N		-	-	N/A	N/A
15.0.1	Radiological Consequence Analyses											
	Using Alternative Source Terms											
15.0.2	Review of											
	Transient and											
	Accident Analysis Method											
15.0.3	Design Basis Accident	38	15.00.03-1	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
	Radiological Consequences	38	15.00.03-2	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
	of Analyses for	38	15.00.03-3	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
	Advanced Light Water Reactors	38	15.00.03-4	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-5	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-6	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-7	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-8	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-9	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-9	0	2
		38	15.00.03-10	2008/8/22	N	N	N	fin.	-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		38	15.00.03-11	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-11	0	2
		38	15.00.03-12	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-13	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-13	0	2
		38	15.00.03-14	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-14	-	1
		38	15.00.03-15	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-16	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-16	0	2
		38	15.00.03-17	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-18	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-19	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-20	2008/10/20	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-21	2008/10/20	N	N	N	fin.	-	-	N/A	N/A
		38	15.00.03-22	2008/8/22	Y	N	N	fin.	-	DCD_15.00.03-22	0	2
		38	15.00.03-23	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		105	15.00.03-24	2009/1/6	N	N	N	fin.	-	-	N/A	N/A
		105	15.00.03-25	2009/1/6	Y	Y	N	fin.	-	DCD_15.00.03-25	0	2
		106	15.00.03-26	2009/1/6	Y	Y	N	fin.	-	DCD_15.00.03-26	0	2
		176	15.00.03-27	2009/3/3	N	N	N		-	-	N/A	N/A
		176	15.00.03-28	2009/3/3	N	N	N		-	-	N/A	N/A
		390	15.00.03-29	2009/7/13	N	N	N		-	-	N/A	N/A
		418	15.00.03-30	2009/8/3	N	N	N		-	-	N/A	N/A
		420	15.00.03-31	2009/8/3	N	N	N		-	-	N/A	N/A
		492	15.00.03-32	2009/12/11	N	N	N		-	-	N/A	N/A
15.1.1-	ecrease in Feedwater Temperature	301	15.1-1	2009/6/16	N	N	N		-	-	N/A	N/A
15.1.4	Increase in Feedwater Flow,	301	15.1-2	2009/6/16	N	N	N		-	-	N/A	N/A
	Increase in Steam Flow,	301	15.1-3	2009/6/16	N	N	N		-	-	N/A	N/A
	and Inadvertent Opening of a	301	15.1-4	2009/6/16	N	N	N		-	-	N/A	N/A
	Steam Generator Relief or Safety Val	301	15.1-5	2009/6/16	N	N	N		-	-	N/A	N/A
		301	15.1-6	2009/6/16	N	N	N		-	-	N/A	N/A
		787	15.01.01-15,15.01.04-7	8/25/2011	Y	N	N		-	CD_15.01.01-15,15.01.04-	1	
		787	15.01.01-15,15.01.04-8	8/25/2011	Y	N	N		-	CD_15.01.01-15,15.01.04-	1	
		811	15.01.01-15,15.01.04-9	9/30/2011	N	N	N		-	-	N/A	N/A
15.1.5	Steam System Piping Failures	302	15.1.5-1	2009/7/3	N	N	N		-	-	N/A	N/A
	Inside and Outside of Containment	302	15.1.5-2	2009/7/3	N	N	N		-	-	N/A	N/A
	(PWR)	302	15.1.5-3	2009/7/3	N	N	N		-	-	N/A	N/A
		302	15.1.5-4	2009/7/3	N	N	N		-	-	N/A	N/A
		302	15.1.5-5 (Deleted)	2009/7/3								
		788	15.01.05-6	8/25/2011	Y	N	N		-	DCD_15.01.05-6	1	
		788	15.01.05-7	8/25/2011	N	N	N		-	-	N/A	N/A
		865	15.01.05-8	12/12/2011	Y	N	N		-	DCD_15.02.05-8	1	
15.2.1-	Loss of External Load;	303	15.2-1	2009/7/3	N	N	N		-	-	N/A	N/A
15.2.5	Turbine Trip;	303	15.2-2	2009/7/3	Y	N	N		-	DCD_15.2-2	4	2
	Loss of Condenser Vacuum;	303	15.2-3	2009/7/3	N	N	N		-	-	N/A	N/A
	Closure of Main Steam	303	15.2-4	2009/7/3	N	N	N		-	-	N/A	N/A
	Isolation Valve (BWR);	303	15.2-5	2009/7/3	N	N	N		-	-	N/A	N/A
	and Steam Pressure	303	15.2-6 (Deleted)	2009/7/3					-			
	Regulator Failure (Closed)	303	15.2-7 (Deleted)	2009/7/3					-			
		303	15.2-8	2009/7/3	Y	N	N		-	DCD_15.2-8	4	2
		789	15.02.01-15.02.05-9	9/30/2011	Y	N	N		-	DCD_15.02.01-15.02.05-9	1	
		789	15.02.01-15.02.05-10	9/30/2011	N	N	N		-	-	N/A	N/A
15.2.6	Loss of Nonemergency AC Power	304	15.2.6-1	2009/6/16	N	N	N		-	-	N/A	N/A
	to the Station Auxiliaries											

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
15.2.7	Loss of Normal Feedwater Flow											
15.2.8	Feedwater System Pipe Breaks	305	15.2.8-1	2009/7/3	N	N	N		-	-	N/A	N/A
	Inside and Outside Containment	305	15.2.8-2	2009/7/3	N	N	N		-	-	N/A	N/A
	(PWR)	305	15.2.8-3	2009/7/3	N	N	N		-	-	N/A	N/A
15.3.1-	oss of Forced Reactor Coolant Flow	306	15.3.1-1	2009/6/16	N	N	N		-	-	N/A	N/A
15.3.2	Including Trip of Pump Motor and	306	15.3.1-2	2009/6/16	N	N	N		-	-	N/A	N/A
	Flow Controller Malfunctions	306	15.3.1-3	2009/6/16	N	N	N		-	-	N/A	N/A
		306	15.3.1-4	2009/6/16	N	N	N		-	-	N/A	N/A
		306	15.3.1-5	2009/6/16	N	N	N		-	-	N/A	N/A
		306	15.3.1-6	2009/6/16	N	N	N		-	-	N/A	N/A
		306	15.3.1-7	2009/6/16	N	N	N		-	-	N/A	N/A
				2011/12/20	N	N	N		-	-	N/A	N/A
		306	15.3.1-8	2009/6/16	N	N	N		-	-	N/A	N/A
15.3.3-	eactor Coolant Pump Rotor Seizure	353	15.3.3.1	2009/7/3	N	N	N		-	-	N/A	N/A
15.3.4	and Reactor Coolant Pump	353	15.3.3.2	2009/7/3	N	N	N		-	-	N/A	N/A
	Shaft Break	353	15.3.3.3	2009/7/3	N	N	N		-	-	N/A	N/A
15.4.1	Uncontrolled Control Rod Assembly	308	15.4.1-1	2009/7/3	N	N	N		-	-	N/A	N/A
	Withdrawal from a	308	15.4.1-2	2009/7/3	N	N	N		-	-	N/A	N/A
	Subcritical or	308	15.4.1-3	2009/7/3	N	N	N		-	-	N/A	N/A
	Low Power Startup Condition	308	15.4.1-4	2009/7/3	N	N	N		-	-	N/A	N/A
		308	15.4.1-5	2009/7/3	N	N	N		-	-	N/A	N/A
		308	15.4.1-6	2009/7/3	N	N	N		-	-	N/A	N/A
		308	15.4.1-7	2009/7/3	N	N	N		-	-	N/A	N/A
		308	15.4.1-8	2009/7/3	N	N	N		-	-	N/A	N/A
		308	15.4.1-9	2009/7/3	N	N	N		-	-	N/A	N/A
15.4.2	Uncontrolled Control Rod Assembly	309	15.4.2-1	2009/5/15	N	N	N		-	-	N/A	N/A
	Withdrawal at Power	309	15.4.2-2	2009/5/15	N	N	N		-	-	N/A	N/A
15.4.3	Control Rod Misoperation	310	15.4.3-1	2009/7/3	N	N	N		-	-	N/A	N/A
	(System Malfunction or	310	15.4.3-2	2009/7/3	N	N	N		-	-	N/A	N/A
	Operator Error)	310	15.4.3-3	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-4	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-5	2009/7/3	Y	N	N		-	DCD_15.4.3-5	4	2
		310	15.4.3-6	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-7	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-8	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-9	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-10	2009/7/3	N	N	N		-	-	N/A	N/A
		310	15.4.3-11	2009/7/3	N	N	N		-	-	N/A	N/A

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15.4.4-	Startup of an Inactive Loop or											
15.4.5	Recirculation Loop at an											
	Incorrect Temperature,											
	and Flow Controller Malfunction											
	Causing an Increase											
	in BWR Core Flow Rate											
15.4.6	Inadvertent Decrease in	311	15.4.6-1	2009/6/16	N	N	N		-	-	N/A	N/A
	Boron Concentration in the	311	15.4.6-2	2009/6/16	N	N	N		-	-	N/A	N/A
	Reactor Coolant System (PWR)	311	15.4.6-3	2009/6/16	N	N	N		-	-	N/A	N/A
		311	15.4.6-4	2009/6/16	N	N	N		-	-	N/A	N/A
		311	15.4.6-5	2009/6/16	Y	N	N			DCD_15.4.6-5	4	2
				2011/1/14	N	N	N		-	-	N/A	N/A
		682	15.04.06-6	2011/4/15	Y	Y	N		-	DCD_15.04.06-6	0	
		682	15.04.06-7	2011/4/15	N	N	N		-	-	N/A	N/A
		682	15.04.06-8	2011/4/15	N	N	N		-	-	N/A	N/A
		708	15.04.06-9	2011/4/15	Y	N	N		-	DCD_15.04.06-9	0	
15.4.7	Inadvertent Loading	312	15.4.7-1	2009/5/15	N	N	N		-	-	N/A	N/A
	and Operation of a Fuel Assembly	312	15.4.7-2	2009/5/15	N	N	N		-	-	N/A	N/A
	in an Improper Position	312	15.4.7-3	2009/5/15	N	N	N		-	-	N/A	N/A
15.4.8	Spectrum of	313	15.4.8-1	2009/7/3	N	N	N		-	-	N/A	N/A
	Rod Ejection Accidents (PWR)	313	15.4.8-2	2009/7/3	N	N	N		-	-	N/A	N/A
				2011/7/29	N	N	N		-	-	N/A	N/A
		313	15.4.8-3	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-4	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-5	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-6	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-7	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-8	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-9	2009/7/3	N	N	N		-	-	N/A	N/A
		313	15.4.8-10 (Deleted)	2009/7/3								
		785	15.04.08-11	8/31/2011	Y	N	N		-	DCD_15.04.08-11	1	
15.5.1-	Inadvertent Operation of	307	15.5.2-1	2009/6/16	N	N	N		-	-	N/A	N/A
15.5.2	ECCS and Chemical	307	15.5.2-2	2009/6/16	N	N	N		-	-	N/A	N/A
	and Volume Control	307	15.5.2-3	2009/6/16	N	N	N		-	-	N/A	N/A
	System Malfunction that											
	Increases Reactor Coolant Inventory											
15.5.7	Radioactive Releases											
	from a Subsystem or Component											
15.6.1	Inadvertent Opening of a	314	15.6.1-1	2009/5/15	N	N	N		-	-	N/A	N/A
	PWR Pressurizer Pressure											
	Relief Valve											
	or a BWR Pressure Relief Valve											
15.6.3	Radiological Consequences	298	15.6.3-1 (Deleted)	2009/7/3								
	of Steam Generator Tube Failure	298	15.6.3-2	2009/7/3	N	N	N		-	-	N/A	N/A
		808	15.06.03-3	2011/9/22	N	N	N		-	-	N/A	N/A
				2011/12/9	N	N	N		-	-	N/A	N/A
		808	15.06.03-4	2011/9/22	N	N	N		-	-	N/A	N/A

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		808	15.06.03-5	2011/9/22	N	N	N		-	-	N/A	N/A
		808	15.06.03-6	2011/9/22	Y	N	N		-	DCD_15.06.03-6	1	
		808	15.06.03-7	2011/9/22	N	N	N		-	-	N/A	N/A
		808	15.06.03-8	2011/9/22	N	N	N		-	-	N/A	N/A
				2011/12/9	N	N	N		-	-	N/A	N/A
15.6.5	Loss-of-Coolant Accidents	352	15.6.5-1	2009/7/17	N	N	N		-	-	N/A	N/A
	Resulting From Spectrum of	352	15.6.5-2	2009/7/17	N	N	N		-	-	N/A	N/A
	Postulated Piping Breaks	352	15.6.5-3	2009/7/17	N	N	N		-	-	N/A	N/A
	Within the Reactor Coolant	352	15.6.5-4	2009/7/17	N	N	N		-	-	N/A	N/A
	Pressure Boundary	352	15.6.5-5	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-6	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-7	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-8	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-9	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-10	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-11	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-12	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-13	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-14	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-15	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-16	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-17	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-18	2009/7/17	Y	N	N		-	DCD_15.6.5-18	4	2
		352	15.6.5-19	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-20	2009/7/17	N	N	N		-	-	N/A	N/A
				2011/6/13	N	N	N		-	-	N/A	N/A
		352	15.6.5-21	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-22	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-23	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-24	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-25	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-26	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-27	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-28	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-29	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-30	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-31	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-32	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-33	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-34	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-35	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-36	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-37	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-38	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-39	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-40	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-41	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-42	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-43	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-44	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-45	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-46	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-47	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-48	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-49	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-50	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-51	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-52	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-53	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-54	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-55	2009/7/17	N	N	N		-	-	N/A	N/A
		352	15.6.5-56	2009/7/17	N	N	N		-	-	N/A	N/A
		513	15.06.05-57	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-58	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-59	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-60	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-61	2010/2/15	N	N	N		-	-	N/A	N/A
		514	15.06.05-62	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-63	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-64	2010/2/5	N	N	N		-	-	N/A	N/A

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		514	15.06.05-65	2010/2/15	N	N	N		-	-	N/A	N/A
		514	15.06.05-66	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-67	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-68	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-69	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-70	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-71	2010/2/15	N	N	N		-	-	N/A	N/A
		514	15.06.05-72	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-73	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-74	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-75	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-76	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-77	2010/2/5	N	N	N		-	-	N/A	N/A
		514	15.06.05-78	2010/2/5	N	N	N		-	-	N/A	N/A
		706	15.06.05-79	2011/4/28	N	N	N		-	-	N/A	N/A
		706	15.06.05-80	2011/3/29	N	N	N		-	-	N/A	N/A
		706	15.06.05-81	2011/4/28	N	N	N		-	-	N/A	N/A
		706	15.06.05-82	2011/4/28	N	N	N		-	-	N/A	N/A
		718	15.06.05-83	2011/5/13	N	N	N		-	-	N/A	N/A
		718	15.06.05-84	2011/5/13	N	N	N		-	-	N/A	N/A
		718	15.06.05-85	2011/5/13	N	N	N		-	-	N/A	N/A
		718	15.06.05-86	2011/5/13	N	N	N		-	-	N/A	N/A
		719	15.06.05-87	2011/5/18	N	N	N		-	-	N/A	N/A
		719	15.06.05-88	2011/4/18	N	N	N		-	-	N/A	N/A
		719	15.06.05-89	2011/5/18	N	N	N		-	-	N/A	N/A
		719	15.06.05-90	2011/4/18	N	N	N		-	-	N/A	N/A
		719	15.06.05-91	2011/5/16	N	N	N		-	-	N/A	N/A
		861	15.06.05-92	12/02/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-93	12/02/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-94	12/02/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-95	12/22/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-96	12/22/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-97	12/02/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-98	xx/yy/2011								
		861	15.06.05-99	12/02/2011	N	N	N		-	-	N/A	N/A
		861	15.06.05-100	12/22/2011	N	N	N		-	-	N/A	N/A
15.8	Anticipated Transients Without Scram											

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16.1	General, Plant Sys,	133	16-12	2009/1/29	Y	Y	N		-	DCD_16-12	1	2
	Refueling, & Adm Ctrls:	133	16-13	2009/1/29	Y	Y	N		-	DCD_16-13	1	2
	Technical Specifications	133	16-14	2009/1/29	Y	Y	N		-	DCD_16-14	1	2
		133	16-15	2009/1/29	N	N	N		-	-	N/A	N/A
		133	16-16	2009/1/29	Y	Y	N		-	DCD_16-16	1	2
		133	16-17	2009/1/29	Y	Y	N		-	DCD_16-17	1	2
		133	16-18	2009/1/29	Y	Y	N		-	DCD_16-18	1	2
		133	16-19	2009/1/29	Y	Y	N		-	DCD_16-19	1	2
		133	16-20	2009/1/29	N	N	N		-	-	N/A	N/A
		161	16-115	2009/2/20	Y	Y	N		-	DCD_16-115	1	2
		161	16-116	2009/2/20	Y	Y	N		-	DCD_16-116	1	2
		161	16-117	2009/3/19	N	N	N		-	-	N/A	N/A
		161	16-118	2009/2/20	Y	Y	N		-	DCD_16-118	1	2
		161	16-119	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-120	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-121	2009/2/20	Y	Y	N		-	DCD_16-121	1	2
		161	16-122	2009/2/20	Y	Y	N		-	DCD_16-122	1	2
		161	16-123	2009/2/20	Y	Y	N		-	DCD_16-123	1	2
		161	16-124	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-125	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-126	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-127	2009/2/20	Y	Y	N		-	DCD_16-127	2	2
		161	16-128	2009/2/20	Y	Y	N		-	DCD_16-128	1	2
		161	16-129	2009/2/20	Y	Y	N		-	DCD_16-129	1	2
		161	16-130	2009/2/20	Y	Y	N		-	DCD_16-130	TBD	
		161	16-131	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-132	2009/2/20	Y	Y	N		-	DCD_16-132	1	2
		161	16-133	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-134	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-135	2009/2/20	N	N	N		-	-	N/A	N/A
				2011/10/19	**N**	**N**	**N**		-	-	N/A	N/A
		161	16-136	2009/2/20	Y	Y	N		-	DCD_16-136	1	2
				2011/10/7	**Y**	**Y**	N		-		1	
		161	16-137	2009/2/20	N	N	N		-	-	N/A	N/A
		161	16-138	2009/2/20	Y	Y	N		-	DCD_16-138	1	2
		161	16-139	2009/2/20	Y	Y	N		-	DCD_16-139	TBD	
		161	16-140	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-141	2009/2/20	Y	Y	N		-	DCD_16-141	1	2
		162	16-142	2009/2/20	Y	Y	N		-	DCD_16-142	1	2
		162	16-143	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-144	2009/2/20	Y	Y	N		-	DCD_16-144	1	2
		162	16-145	2009/2/20	Y	Y	N		-	DCD_16-145	1	2
		162	16-146	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-147	2009/2/20	Y	Y	N		-	DCD_16-147	1	2
		162	16-148	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-149	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-150	2009/2/20	Y	Y	N		-	DCD_16-150	1	2
		162	16-151	2009/2/20	Y	Y	N		-	DCD_16-151	1	2
		162	16-152	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-153	2009/2/20	Y	Y	N		-	DCD_16-153	1	2
		162	16-154	2009/2/20	Y	Y	N		-	DCD_16-154	1	2
		162	16-155	2009/2/20	Y	Y	N		-	DCD_16-155	2	2
		162	16-156	2009/2/20	N	N	N		-	-	N/A	N/A
		162	16-157	2009/2/20	Y	Y	N		-	DCD_16-157	1	2
		166	16-158	2009/3/18	Y	Y	N		-	DCD_16-158	3	2
		166	16-159	2009/3/18	Y	Y	N		-	DCD_16-159	3	2
		166	16-160	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-160	3	2
		166	16-161	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-161	3	2
		166	16-162	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-162	3	2
		166	16-163	2009/3/18	Y	Y	N		-			

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		166	16-163	2009/7/3	Y	Y	N		-	DCD_16-163	3	2
		166	16-164	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-164	3	2
		166	16-165	2009/3/18	N	N	N		-	-	N/A	N/A
		166	16-166	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-166	3	2
		166	16-167	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-167	3	2
		166	16-168	2009/3/18	Y	Y	N		-	DCD_16-168	3	2
		166	16-169	2009/3/18	Y	Y	N		-	DCD_16-169	3	2
		166	16-170	2009/3/18	Y	Y	N		-	DCD_16-170	3	2
		166	16-171	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-171	3	2
		166	16-172	2009/3/18	N	N	N		-	-	N/A	N/A
		166	16-173	2009/3/18	N	N	N		-			
				2009/7/3	N	N	N		-	-	N/A	N/A
		166	16-174	2009/3/18	N	N	N		-	-	N/A	N/A
		166	16-175	2009/3/18	Y	Y	N		-	DCD_16-175	3	2
		166	16-176	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-176	3	2
		166	16-177	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-177	3	2
		166	16-178	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-178	3	2
		166	16-179	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-179	3	2
		166	16-180	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-180	3	2
		166	16-181	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-181	3	2
		166	16-182	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-182	3	2
		166	16-183	2009/3/18	N	N	N		-	-	N/A	N/A
		166	16-184	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-184	3	2
		166	16-185	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-185	3	2
		166	16-186	2009/3/18	Y	N	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-186	3	2
		166	16-187	2009/3/18	N	N	N		-			
				2009/7/3	N	N	N		-	-	N/A	N/A
		166	16-188	2009/3/18	N	N	N		-	-	N/A	N/A
		166	16-189	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-189	3	2
		166	16-190	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-190	3	2
		166	16-191	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-191	3	2
		166	16-192	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-192	3	2
		166	16-193	2009/3/18	Y	N	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-193	3	2
		166	16-194	2009/3/18	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-194	3	2
		166	16-195	2009/3/18	Y	N	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-195	3	2
		167	16-196	2009/3/23	Y	Y	N		-	DCD_16-196	3	2
		167	16-197	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-198	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-199	2009/3/23	Y	N	N		-	DCD_16-199	3	2
		167	16-200	2009/3/23	Y	Y	N		-	DCD_16-200	3	2
		167	16-201	2009/3/23	Y	Y	N		-	DCD_16-201	3	2
		167	16-202	2009/3/23	Y	Y	N		-	DCD_16-202	3	2
		167	16-203	2009/3/23	Y	Y	N		-	DCD_16-203	3	2
		167	16-204	2009/3/23	Y	N	N		-	DCD_16-204	3	2
		167	16-205	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-205	3	2
		167	16-206	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-206	3	2
		167	16-207	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-208	2009/3/23	Y	Y	N		-	DCD_16-208	3	2

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		167	16-209	2009/3/23	Y	Y	N		-	DCD_16-209	3	2
		167	16-210	2009/3/23	Y	Y	N		-	DCD_16-210	3	2
		167	16-211	2009/3/23	Y	Y	N		-	DCD_16-211	3	2
		167	16-212	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-212	3	2
		167	16-213	2009/3/23	Y	N	N		-	DCD_16-213	3	2
		167	16-214	2009/3/23	Y	Y	N		-	DCD_16-214	3	2
		167	16-215	2009/3/23	Y	Y	N		-	DCD_16-215	3	2
		167	16-216	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-217	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-218	2009/3/23	Y	Y	N		-	DCD_16-218	3	2
		167	16-219	2009/3/23	Y	Y	N		-	DCD_16-219	3	2
		167	16-220	2009/3/23	Y	Y	N		-	DCD_16-220	3	2
		167	16-221	2009/3/23	Y	Y	N		-	DCD_16-221	3	2
		167	16-222	2009/3/23	Y	Y	N		-	DCD_16-222	3	2
		167	16-223	2009/3/23	Y	Y	N		-	DCD_16-223	3	2
		167	16-224	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-224	3	2
		167	16-225	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-225	3	2
		167	16-226	2009/3/23	Y	Y	N		-	DCD_16-226	3	2
		167	16-227	2009/3/23	Y	Y	N		-	DCD_16-227	-	2
		167	16-228	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-228	3	2
		167	16-229	2009/3/23	Y	Y	N		-	DCD_16-229	3	2
		167	16-230	2009/3/23	N	N	N		-			
				2009/7/3	N	N	N		-	-	N/A	N/A
		167	16-231	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-232	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-232	3	2
		167	16-233	2009/3/23	Y	Y	N		-	DCD_16-233	3	2
		167	16-234	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-235	2009/3/23	Y	Y	N		-	DCD_16-235	3	2
		167	16-236	2009/3/23	Y	N	N		-	DCD_16-236	3	2
		167	16-237	2009/3/23	Y	N	N		-	DCD_16-237	3	2
		167	16-238	2009/3/23	Y	Y	N		-	DCD_16-238	3	2
		167	16-239	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-240	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-240	3	2
		167	16-241	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-241	3	2
		167	16-242	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-243	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-244	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-245	2009/3/23	Y	Y	N		-	DCD_16-245	3	2
		167	16-246	2009/3/23	Y	N	N		-	DCD_16-246	3	2
		167	16-247	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-247	3	2
		167	16-248	2009/3/23	Y	Y	N		-	DCD_16-248	3	2
		167	16-249	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-249	3	2
		167	16-250	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-250	3	2
		167	16-251	2009/3/23	Y	N	N		-	DCD_16-251	3	2
		167	16-252	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-252	3	2
		167	16-253	2009/3/23	Y	Y	N		-	DCD_16-253	3	2
		167	16-254	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-255	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-255	3	2
		167	16-256	2009/3/23	Y	Y	N		-	DCD_16-256	3	2
		167	16-257	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-257	3	2
		167	16-258	2009/3/23	Y	Y	N		-	DCD_16-258	3	2
		167	16-259	2009/3/23	Y	Y	N		-	DCD_16-259	3	2
		167	16-260	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-261	2009/3/23	Y	Y	N		-	DCD_16-261	3	2
		167	16-262	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-262	3	2
		167	16-263	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-263	3	2

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		167	16-264	2009/3/23	Y	Y	N		-	DCD_16-264	3	2
		167	16-265	2009/3/23	Y	Y	N		-	DCD_16-265	3	2
		167	16-266	2009/3/23	Y	Y	N		-	DCD_16-266	3	2
		167	16-267	2009/3/23	Y	Y	N		-	DCD_16-267	3	2
		167	16-268	2009/3/23	Y	Y	N		-	DCD_16-268	3	2
		167	16-269	2009/3/23	Y	N	N		-	DCD_16-269	3	2
		167	16-270	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-271	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-272	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-273	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-274	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-275	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-276	2009/3/23	Y	N	N		-			
				2009/7/3	Y	N	N		-	DCD_16-276	3	2
		167	16-277	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-277	3	2
		167	16-278	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-279	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-279	3	2
		167	16-280	2009/3/23	N	N	N		-			
				2009/7/3	Y	N	N		-	DCD_16-280	3	2
		167	16-281	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-281	-	2
		167	16-282	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-282	-	2
		167	16-283	2009/3/23	Y	Y	N		-	DCD_16-283	3	2
		167	16-284	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-285	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-285	3	2
		167	16-286	2009/3/23	Y	Y	N		-	DCD_16-286	3	2
		167	16-287	2009/3/23	Y	Y	N		-	DCD_16-287	3	2
		167	16-288	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-288	3	2
		167	16-289	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-289	3	2
		167	16-290	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-290	3	2
		167	16-291	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-291	3	2
		167	16-292	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-292	3	2
		167	16-293	2009/3/23	Y	Y	N		-	DCD_16-293	3	2
		167	16-294	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-294	3	2
		167	16-295	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-296	2009/3/23	N	N	N		-	-	N/A	N/A
		167	16-297	2009/3/23	Y	Y	N		-			
				2009/7/3	Y	Y	N		-	DCD_16-297	3	2
		399	16-298	2009/7/13	N	N	N		-	-	N/A	N/A
				2010/12/22	Y	N	N		-	DCD_16-298	0	
				2011/5/30	Y	Y	N		-	-	N/A	N/A
				2011/10/6	Y	Y	N		-	DCD_16-298	TBD	
		463	16-299	10/28/2009	N	N	N		-	-	N/A	N/A
		520	16-300	2010/2/18	Y	Y	N		-	DCD_16-300	2	3
		590	16-301	2010/7/12	Y	Y	N		-	DCD_16-301	4	3
		674	16-302	2011/1/18	Y	Y	N		-	DCD_16-302	0	
		747	16-303	2011/5/27	Y	Y	N		-	DCD_16-303	0	
		816	16-304	2011/9/16	Y	Y	N		-	DCD_16-304	1	
16.2	SLs, Reactivity,											
	Core Op Limits, & Special Ops:											
	Technical Specifications											
16.3	Instrumentation:	36	01-1	2008/8/22	Y	N	N	fin.	-	DCD_16.3_01-1	-	1
	Technical Specifications	72	16-1	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-2	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-3	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-4	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-5	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-6	2008/10/8	N	N	N	fin.	-	-	N/A	N/A

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		72	16-7	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-8	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-9	2008/10/8	Y	Y	N	fin.	-	DCD_16-9	0	2
		72	16-10	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
		72	16-11	2008/10/8	N	N	N	fin.	-	-	N/A	N/A
16.4	CS & ECCS: Technical Specificatio	135	16-48	2009/2/4	Y	Y	N		-	DCD_16-48	1	2
		135	16-49	2009/2/4	Y	Y	N		-	DCD_16-49	1	2
		135	16-50	2009/2/4	Y	Y	N		-	DCD_16-50	1	2
		135	16-51	2009/2/4	Y	Y	N		-	DCD_16-51	1	2
		135	16-52	2009/2/4	Y	Y	N		-	DCD_16-52	1	2
		135	16-53	2009/2/4	N	N	N		-	-	N/A	N/A
		135	16-54	2009/2/4	Y	Y	N		-	DCD_16-54	1	2
		135	16-55	2009/2/4	Y	Y	N		-	DCD_16-55	1	2
		135	16-56	2009/2/4	Y	Y	N		-	DCD_16-56	1	2
		135	16-57	2009/2/4	Y	Y	N		-	DCD_16-57	1	2
		135	16-58	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-66	2009/2/4	Y	Y	N		-	DCD_16-66	1	2
		146	16-67	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-68	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-69	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-70	2009/2/4	Y	Y	N		-	DCD_16-70	1	2
		146	16-71	2009/2/4	Y	Y	N		-	DCD_16-71	1	2
		146	16-72	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-73	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-74	2009/2/4	Y	N	N		-	DCD_16-74	1	2
		146	16-75	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-76	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-77	2009/2/4	Y	Y	N		-	DCD_16-77	1	2
		146	16-78	2009/2/4	Y	Y	N		-	DCD_16-78	1	2
		146	16-79	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-80	2009/2/4	Y	Y	N		-	DCD_16-80	1	2
		146	16-81	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-82	2009/2/4	Y	Y	N		-	DCD_16-82	1	2
		146	16-83	2009/2/4	Y	Y	N		-	DCD_16-83	1	2
		146	16-84	2009/2/4	Y	Y	N		-	DCD_16-84	1	2
		146	16-85	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-86	2009/2/4	Y	Y	N		-	DCD_16-86	1	2
		146	16-87	2009/2/4	Y	Y	N		-	DCD_16-87	1	2
		146	16-88	2009/2/4	Y	Y	N		-	DCD_16-88	1	2
		146	16-89	2009/2/4	Y	Y	N		-	DCD_16-89	1	2
		146	16-90	2009/2/4	N	N	N		-	-	N/A	N/A
		146	16-91	2009/2/4	Y	Y	N		-	DCD_16-91	1	2
		146	16-92	2009/2/4	Y	Y	N		-	DCD_16-92	1	2
		146	16-93	2009/2/4	Y	Y	N		-	DCD_16-93	1	2
		146	16-94	2009/2/4	Y	Y	N		-	DCD_16-94	1	2
		146	16-95	2009/2/4	Y	Y	N		-	DCD_16-95	1	2
		146	16-96	2009/2/4	Y	Y	N		-	DCD_16-96	1	2
		146	16-97	2009/2/4	Y	Y	N		-	DCD_16-97	1	2
		146	16-98	2009/2/4	N	N	N		-	-	N/A	N/A
X		146	16-99	2009/2/4	Y	Y	N		-	DCD_16-99	2	2
		158	16-100	2009/2/20	Y	Y	N		-	DCD_16-100	1	2
		158	16-101	2009/2/20	N	N	N		-	-	N/A	N/A
		158	16-102	2009/2/20	N	N	N		-	-	N/A	N/A
		158	16-103	2009/2/20	N	N	N		-	-	N/A	N/A
		158	16-104	2009/2/20	N	N	N		-	-	N/A	N/A
				2009/6/22	Y	Y	N		-	DCD_16-104	3	
		158	16-105	2009/2/20	Y	Y	N		-	DCD_16-105	1	2
		158	16-106	2009/2/20	Y	Y	N		-	DCD_16-106	1	2
		158	16-107	2009/2/20	Y	Y	N		-	DCD_16-107	2	2
		158	16-108	2009/2/20	Y	Y	N		-	DCD_16-108	1	2
		158	16-109	2009/2/20	Y	Y	N		-	DCD_16-109	1	2
		158	16-110	2009/2/20	N	N	N		-	-	N/A	N/A
		158	16-111	2009/2/20	Y	Y	N		-	DCD_16-111	1	2
		158	16-112	2009/2/20	Y	Y	N		-	DCD_16-112	1	2
		158	16-113	2009/2/20	N	N	N		-	-	N/A	N/A
		158	16-114	2009/2/20	Y	Y	N		-	DCD_16-114	1	2

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		OI	16-146-1804/79	10/14/2009	N	N	N		-	-	N/A	N/A
		OI	16-135-1818/51	10/14/2009	Y	Y	N		-	DCD_16-135-1818/51	0	3
		OI	16-135-1818/53	10/14/2009	Y	Y	N		-	DCD_16-135-1818/53	0	3
		OI	16-2.4-50	10/16/2009	N	N	N		-		N/A	N/A
		OI	16-9.2.1-26	10/14/2009	N	N	N		-		N/A	N/A
		OI	16-133-1827/136	10/16/2009	N	N	N		-		N/A	N/A
		OI	16-133-1827/15	2009/10/28	Y	Y	N		-	DCD_16-133-1827/15	0	3
		OI	16-133-1827/20	2009/10/28	N	N	N		-	-	N/A	N/A
		OI	16-1769/284	10/28/2009	N	N	N		-	-	N/A	N/A
		OI	16-1784/172	11/10/2009	Y	Y	N		-	DCD_16-1784/172	1	3
		OI	16-1784/174	11/10/2009	Y	Y	N		-	DCD_16-1784/174	1	3
		OI	16-1784/186	11/10/2009	Y	Y	N		-	DCD_16-1784/186	-	2
		OI	16-1784/188	11/10/2009	Y	Y	N		-	DCD_16-1784/188	1	3
		OI	16-1784/192	11/10/2009	Y	Y	N		-	DCD_16-1784/192	-	2
		OI	16-1769/209	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/220	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/228	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/230	11/10/2010	N	N	N		-	-	N/A	N/A
		OI	16-1769/231	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/232	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/233	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/238	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/241	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/242	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/270	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/271	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/272	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/273	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/274	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/275	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-1769/282	11/10/2009	Y	Y	N		-	DCD_16-1769/282	-	2
		OI	16-1769/290	11/10/2009	N	N	N		-	-	N/A	N/A
		OI	16-134-1825/26	10/30/2009	Y	Y	N		-	DCD_16-134-1825/26	0	3
		OI	16-134-1825/27	10/30/2009	N	N	N		-	-	N/A	N/A
		OI	16-72-853	10/30/2009	Y	Y	N		-	DCD_16-72-853	0	3
16.5	Containment Systems:	136	16-59	2009/2/4	Y	Y	N		-	DCD_16-59	1	2
	Technical Specifications	136	16-60	2009/2/4	Y	Y	N		-	DCD_16-60	1	2
				2009/6/16	Y	Y	N		-	DCD_16-60	3	2
		136	16-61	2009/2/4	Y	Y	N		-	DCD_16-61	1	2
		136	16-62	2009/2/4	N	N	N		-	-	N/A	N/A
		136	16-63	2009/2/4	Y	N	N		-	DCD_16-63	1	2
		136	16-64	2009/2/4	Y	Y	N		-	DCD_16-64	1	2
		136	16-65	2009/2/4	Y	Y	N		-	DCD_16-65	1	2
16.6	Electrical Power Sys:	134	16-21	2009/2/4	Y	Y	N		-	DCD_16-21	1	2
	Technical Specifications	134	16-22	2009/2/4	Y	Y	N		-	DCD_16-22	1	2
		134	16-23	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-24	2009/2/4	Y	Y	N		-	DCD_16-24	1	2
		134	16-25	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-26	2009/2/4	Y	Y	N		-	DCD_16-26	1	2
		134	16-27	2009/2/4	Y	Y	N		-	DCD_16-27	1	2
		134	16-28	2009/2/4	Y	Y	N		-	DCD_16-28	1	2
		134	16-29	2009/2/4	Y	Y	N		-	DCD_16-29	1	2
		134	16-30	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-31	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-32	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-33	2009/2/4	Y	Y	N		-	DCD_16-33	1	2
		134	16-34	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-35	2009/2/4	Y	Y	N		-	DCD_16-35	1	2

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		134	16-36	2009/2/4	Y	Y	N		-	DCD_16-36	1	2
		134	16-37	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-38	2009/2/4	Y	Y	N		-	DCD_16-38	1	2
		134	16-39	2009/2/4	Y	Y	N		-	DCD_16-39	1	2
		134	16-40	2009/2/4	Y	Y	N		-	DCD_16-40	1	2
		134	16-41	2009/2/4	Y	Y	N		-	DCD_16-41	1	2
		134	16-42	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-43	2009/2/4	Y	Y	N		-	DCD_16-43	1	2
		134	16-44	2009/2/4	N	N	N		-	-	N/A	N/A
		134	16-45	2009/2/4	Y	Y	N		-	DCD_16-45	1	2
		134	16-46	2009/2/4	Y	Y	N		-	DCD_16-46	1	2
		134	16-47	2009/2/4	Y	Y	N		-	DCD_16-47	2	2

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17.1	Quality Assurance											
	During the Design and											
	Construction Phases											
17.4	Reliability Assurance Program (RAP)	101	17.04-1	2008/12/12	Y	N	N	fin.	-	DCD_17.04-1	-	2
		101	17.04-2	2008/12/12	Y	N	N	fin.	-	DCD_17.04-2	-	2
		101	17.04-3	2008/12/12	Y	N	N	fin.	-	DCD_17.04-3	-	2
		101	17.04-4	2008/12/12	Y	N	N	fin.	-	DCD_17.04-4	2	2
		101	17.04-5	2008/12/12	Y	N	N	fin.	-	DCD_17.04-5	-	2
		101	17.04-6	2008/12/12	Y	N	N	fin.	-	DCD_17.04-6	1	2
		101	17.04-7	2008/12/12	Y	N	N	fin.	-	DCD_17.04-7	1	2
		101	17.04-8	2008/12/12	Y	N	N	fin.	-	DCD_17.04-8	1	2
		101	17.04-9	2008/12/12	Y	N	N	fin.	-	DCD_17.04-9	-	2
		101	17.04-10	2008/12/12	Y	N	N	fin.	-	DCD_17.04-10	1	2
		101	17.04-11	2008/12/12	Y	N	N	fin.	-	DCD_17.04-11	1	2
		101	17.04-12	2008/12/12	Y	N	N	fin.	-	DCD_17.04-12	1	2
		101	17.04-13	2008/12/12	Y	N	N	fin.	-	DCD_17.04-13	2	2
		101	17.04-14	2008/12/12	Y	N	N	fin.	-	DCD_17.04-14	1	2
		101	17.04-15	2008/12/12	Y	N	N	fin.	-	DCD_17.04-15	-	2
		101	17.04-16	2008/12/12	N	N	N	fin.	-	-	N/A	N/A
		101	17.04-17	2008/12/12	N	N	N	fin.	-	-	N/A	N/A
		101	17.04-18	2008/12/12	Y	N	N	fin.	-	DCD_17.04-18	-	2
		150	17.04-19	2009/3/10	Y	N	N		-	DCD_17.04-19	2	2
		150	17.04-20	2009/3/10	N	N	N		-	-	N/A	N/A
		150	17.04-21	2009/2/6	Y	N	N		-	DCD_17.04-21	1	2
		150	17.04-22	2009/2/6	Y	N	N		-	DCD_17.04-22	1	2
		150	17.04-23	2009/3/10	Y	N	N		-	DCD_17.04-23	2	2
		150	17.04-24	2009/3/10	Y	N	N		-	DCD_17.04-24	2	2
		150	17.04-25	2009/2/6	Y	N	N		-	DCD_17.04-25	1	2
		150	17.04-26	2009/2/6	Y	N	N		-	DCD_17.04-26	1	2
		150	17.04-27	2009/2/6	Y	N	N		-	DCD_17.04-27	1	2
		150	17.04-28	2009/2/6	Y	N	N		-	DCD_17.04-28	1	2
		150	17.04-29	2009/2/6	Y	N	N		-	DCD_17.04-29	-	2
		150	17.04-30	2009/3/10	Y	N	N		-	DCD_17.04-30	2	2
		150	17.04-31	2009/2/6	N	N	N		-	-	N/A	N/A
		150	17.04-32	2009/2/6	Y	N	N		-	DCD_17.04-32	1	2
		150	17.04-33	2009/2/6	Y	N	N		-	DCD_17.04-33	1	2
		150	17.04-34	2009/2/6	Y	N	N		-	DCD_17.04-34	1	2
		150	17.04-35	2009/2/6	N	N	N		-	-	N/A	N/A
		175	17.04-36	2009/3/3	Y	N	N		-	DCD_17.04-36	2	2
		175	17.04-37	2009/4/3	Y	N	N		-	DCD_17.04-37	2	2
		175	17.04-38	2009/4/3	Y	N	N		-	DCD_17.04-38	2	2
		175	17.04-39	2009/3/3	Y	N	N		-	DCD_17.04-39	2	2
		385	17.04-40	2009/7/10	Y	N	N		-	DCD_17.04-40	-	2
		385	17.04-41	2009/7/10	Y	N	N		-	DCD_17.04-41	-	2
		385	17.04-42	2009/7/10	Y	N	N		-	DCD_17.04-42	-	2
		385	17.04-43	2009/7/10	Y	N	N		-	DCD_17.04-43	-	2
		385	17.04-44	2009/7/10	Y	N	N		-	DCD_17.04-44	-	2
		385	17.04-45	2009/7/10	Y	N	N		-	DCD_17.04-45	-	2
		398	17.04-46	2009/7/18	Y	N	N		-	DCD_17.04-46	-	2
		398	17.04-47	2009/7/18	Y	N	N		-	DCD_17.04-47	-	2
		398	17.04-48	2009/7/18	Y	N	N		-	DCD_17.04-48	-	2
		398	17.04-49	2009/7/18	Y	N	N		-	DCD_17.04-49	-	2
		606	17.4-50	2010/9/3	Y	N	N		-	DCD_17.4-50	TBD	
		606	17.4-51	2010/9/3	Y	Y	N		-	DCD_17.4-51	TBD	
		606	17.4-52	2010/9/3	Y	N	N		-	DCD_17.4-52	TBD	
		606	17.4-53	2010/9/3	Y	N	N		-	DCD_17.4-53	TBD	
		606	17.4-54	2010/9/3	N	N	N		-	-	N/A	N/A
		606	17.4-55	2010/9/3	Y	N	N		-	DCD_17.4-55	TBD	
		606	17.4-56	2010/9/3	Y	N	N		-	DCD_17.4-56	TBD	
		606	17.4-57	2010/9/3	Y	N	N		-	DCD_17.4-57	TBD	
		606	17.4-58	2010/9/3	Y	N	N		-	DCD_17.4-58	TBD	
17.5	Quality Assurance Program											
	Description -											

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Design Certification, Early Site Permit												
	and New License Applicants											
17.6	Maintenance Rule	137	17.06-1	2009/1/21	Y	N	N		-	DCD_17.06-1	1	2

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18.1	HFE Program Management	281	18-6	2009/3/31	Y	N	N		-	DCD_18.6	2	2
		295	18-7	2009/4/28	Y	N	N		-	DCD_18.7	-	2
		295	18-8	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-9	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-10	2009/4/28	Y	N	N		-	DCD_18.10	3	2
		295	18-11	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-12	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-13	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-14	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-15	2009/4/28	Y	N	N		-	DCD_18.15	3	2
		295	18-16	2009/4/28	N	N	N		-	-	N/A	N/A
		295	18-17	2009/4/28	Y	N	N		-	DCD_18.17	3	2
		295	18-18	2009/4/28	Y	N	N		-	DCD_18.18	3	2
		295	18-19	2009/4/28	N	N	N		-	-	N/A	N/A
		728	18-106	4/28/2011	Y	N	N		-	DCD_18-106	0	
				5/12/2011	Y	N	N		-		TBD	
		728	18-107	4/28/2011	Y	N	N		-	DCD_18-107	0	
				5/12/2011	Y	N	N		-		TBD	
		728	18-108	4/28/2011	Y	N	N		-	DCD_18-108	0	
				5/12/2011	Y	N	N		-		TBD	
		728	18-109	4/28/2011	Y	N	N		-	DCD_18-109	0	
				5/12/2011	Y	N	N		-		TBD	
		728	18-110	4/28/2011	Y	N	N		-	DCD_18-110	TBD	
				5/12/2011	Y	N	N		-		0	
		728	18-111	4/28/2011	Y	N	N		-	DCD_18-111	TBD	
				5/12/2011	Y	N	N		-		TBD	
		728	18-112	4/28/2011	N	N	N		-	-	N/A	N/A
				5/12/2011	N	N	N		-	-	N/A	N/A
		728	18-113	5/12/2011	N	N	N		-	-	N/A	N/A
		728	18-114	4/28/2011	Y	N	N		-	DCD_18-114	0	
				5/12/2011	Y	N	N		-	DCD_18-115	TBD	
		755	18-115	5/31/2011	N	N	N		-	-	N/A	N/A
		755	18-116	5/31/2011	Y	N	N		-	DCD_18-116	0	
		755	18-117	5/31/2011	Y	N	N		-	DCD_18-117	0	
		755	18-118	5/31/2011	N	N	N		-	-	N/A	N/A
		755	18-119	5/31/2011	N	N	N		-	-	N/A	N/A
		756	18-120	5/31/2011	Y	N	N		-	DCD_18-120	0	
		780	18-129	8/19/2011	Y	N	N		-	DCD_18-129	1	
18.2	Operating Experience Review	77	18.3	2008/11/4	N	N	N	fin.	-	-	N/A	N/A
		368	18-45	2009/6/8	N	N	N		-	-	N/A	N/A
		368	18-46	2009/6/8	N	N	N		-	-	N/A	N/A
		406	18-48	2009/7/24	N	N	N		-	-	N/A	N/A
		410	18-49	2009/7/24	N	N	N		-	-	N/A	N/A
		529	18-66	2010/3/1	N	N	N		-	-	N/A	N/A
		529	18-67	2010/3/1	Y	N	N		-	DCD_18-67	3	3
		529	18-68	2010/3/1	N	N	N		-	-	N/A	N/A
		820	18-186	2011/9/29	N	N	N		-	-	N/A	N/A
18.3	Functional Requirements Analysis and Function Allocation	336	18-28	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-29	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-30	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-31	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-32	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-33	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-34	2009/5/27	N	N	N		-	-	N/A	N/A
		336	18-35	2009/5/27	N	N	N		-	-	N/A	N/A
		594	18-69	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-70	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-71	2010/7/9	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		594	18-72	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-73	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-74	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-75	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-76	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-77	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-78	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-79	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-80	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-81	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-82	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-83	2010/7/9	N	N	N		-	-	N/A	N/A
		594	18-84	2010/7/9	N	N	N		-	-	N/A	N/A
		793	18-141	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-142	12/16/2011	Y	N	N		-	DCD_18-142	1	
		793	18-143	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-144	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-145	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-146	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-147	12/16/2011	Y	N	N		-	DCD_18-147	1	
		793	18-148	12/16/2011	N	N	N		-	-	N/A	N/A
		793	18-149	12/16/2011	N	N	N		-	-	N/A	N/A
18.4	Task Analysis	342	18-43	2009/6/17	Y	N	N		-	DCD_18-43	3	2
		417	18-64	2009/7/24	Y	N	N		-	DCD_18-64	3	2
		781	18-130	12/15/2011	N	N	N		-	-	N/A	N/A
		781	18-131	12/15/2011	Y	N	N		-	DCD_18-131	1	
		781	18-132	12/15/2011	Y	N	N		-	DCD_18-132	1	
		781	18-133	12/15/2011	Y	N	N		-	DCD_18-133	1	
		781	18-134	12/15/2011	Y	N	N		-	DCD_18-134	1	
		781	18-135	12/15/2011	Y	N	N		-	DCD_18-135	1	
		781	18-136	12/15/2011	Y	N	N		-	DCD_18-136	1	
		781	18-137	12/15/2011	N	N	N		-	-	N/A	N/A
		781	18-138	12/15/2011	Y	N	N		-	DCD_18-138	1	
		781	18-139	12/15/2011	Y	N	N		-	DCD_18-139	1	
18.5	Staffing and Qualifications	75	18.1	2008/11/4	N	N	N	fin.	-	-	N/A	N/A
		76	18.2	2008/11/4	N	N	N	fin.	-	-	N/A	N/A
		79	18-4	2008/11/4	N	N	N	fin.	-	-	N/A	N/A
		79	18-5	2008/11/4	N	N	N	fin.	-	-	N/A	N/A
		335	18-27	2009/5/27	N	N	N		-	-	N/A	N/A
		725	18-98	2011/4/27	N	N	N		-	-	N/A	N/A
		725	18-99	2011/4/27	N	N	N		-	-	N/A	N/A
		725	18-100	2011/4/27	Y	N	N		-	DCD_18-100	0	
		725	18-101	2011/4/27	N	N	N		-	-	N/A	N/A
		725	18-102	2011/4/27	N	N	N		-	-	N/A	N/A
		725	18-103	2011/4/27	Y	N	N		-	DCD_18-103	0	
		725	18-104	2011/4/27	N	N	N		-	-	N/A	N/A
		725	18-105	2011/4/27	N	N	N		-	-	N/A	N/A
		792	18-140	8/25/2011	Y	N	N		-	DCD_18-140	TBD	
18.6	Human Reliability Analysis	334	18-24	2009/5/27	N	N	N		-	-	N/A	N/A
		334	18-25	2009/5/27	N	N	N		-	-	N/A	N/A
		334	18-26	2009/5/27	N	N	N		-	-	N/A	N/A
		664	18-94	2010/12/22	N	N	N		-	-	N/A	N/A
		664	18-95	2010/12/22	N	N	N		-	-	N/A	N/A
		664	18-96	2010/12/22	N	N	N		-	-	N/A	N/A
		664	18-97	2010/12/22	N	N	N		-	-	N/A	N/A
18.7	Human-System Interface Design	411	18-50	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-51	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-52	2009/7/24	Y	N	N		-	DCD_18-52	3	2
		412	18-53	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-54	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-55	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-56	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-57	2009/7/24	Y	N	N		-	DCD_18-57	-	2
		412	18-58	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-59	2009/7/24	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		412	18-60	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-61	2009/7/24	N	N	N		-	-	N/A	N/A
		412	18-62	2009/7/24	Y	N	N		-	DCD_18-57	-	2
		421	18-65	2009/7/24	N	N	N		-	-	N/A	N/A
		595	18-85	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-86	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-87	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-88	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-89	2010/7/9	Y	N	N		-	DCD_18-89	4	3
		595	18-90	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-91	2010/7/9	Y	N	N		-	DCD_18-91	4	3
		595	18-92	2010/7/9	N	N	N		-	-	N/A	N/A
		595	18-93	2010/7/9	N	N	N		-	-	N/A	N/A
		797	18-178	10/27/2011	Y	N	N		-	DCD_18-178	1	
		797	18-179	10/27/2011	N	N	N		-	-	N/A	N/A
		797	18-180	10/27/2011	N	N	N		-	-	N/A	N/A
		797	18-181	10/27/2011	N	N	N		-	-	N/A	N/A
		797	18-182	10/27/2011	Y	N	N		-	DCD_18-182	1	
		797	18-183	10/27/2011	N	N	N		-	-	N/A	N/A
		797	18-184	10/27/2011	N	N	N		-	-	N/A	N/A
		797	18-185	10/27/2011	Y	N	N		-	DCD_18-185	1	
18.8	Procedure Development											
		344	18-37	2009/6/18	Y	N	N		-	DCD_18.37	3	2
		344	18-38	2009/6/18	N	N	N		-	-	N/A	N/A
		344	18-39	2009/6/18	N	N	N		-	-	N/A	N/A
		344	18-40	2009/6/18	N	N	N		-	-	N/A	N/A
		344	18-41	2009/6/18	Y	N	N		-	DCD_18.41	3	2
		344	18-42	2009/6/18	Y	N	N		-	DCD_18.42	3	2
		367	18-44	2009/6/8	N	N	N		-	-	N/A	N/A
		792	18-140	8/25/2011	Y	N	N		-	DCD_18-140	1	
		844	18-188	10/21/2011	Y	N	N		-	DCD_18-188	1	
18.9	Training Program Development	339	18-36	2009/6/2	N	N	N		-	-	N/A	N/A
		370	18-47_1	2009/6/17	Y	N	N		-	DCD_18-47_1	3	2
		370	18-47_2	2009/6/17	N	N	N		-	-	N/A	N/A
		370	18-47_3	2009/6/17	N	N	N		-	-	N/A	N/A
		370	18-47_4	2009/6/17	N	N	N		-	-	N/A	N/A
		370	18-47_5	2009/6/17	N	N	N		-	-	N/A	N/A
		370	18-47_6	2009/6/17	Y	N	N		-	DCD_18-47_6	3	2
		370	18-47_7	2009/6/17	Y	N	N		-	DCD_18-47_7	3	2
18.10	Human Factors	413	18-63	2009/7/24	N	N	N		-	-	N/A	N/A
	Verification and Validation											
18.11	Design Implementation	333	18-21	2009/5/27	N	N	N		-	-	N/A	N/A
		333	18-22	2009/5/27	N	N	N		-	-	N/A	N/A
		333	18-23	2009/5/27	N	N	N		-	-	N/A	N/A
18.12	Human Performance Monitoring	332	18-20	2009/5/27	N	N	N		-	-	N/A	N/A
		777	18-121	08/24/2011	N	N	N		-	-	N/A	N/A
		777	18-122	08/24/2011	N	N	N		-	-	N/A	N/A
		777	18-123	08/24/2011	N	N	N		-	-	N/A	N/A
		777	18-124	08/24/2011	N	N	N		-	-	N/A	N/A
		777	18-125	08/24/2011	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		777	18-126	08/24/2011	Y	N	N		-	DCD_18-126	1	
		777	18-127	08/24/2011	N	N	N		-	-	N/A	N/A
		777	18-128	08/24/2011	Y	N	N		-	DCD_18-128	1	
		843	18-187	10/21/2011	Y	N	N		-	DCD_18-187	1	
18.13	Minimum Inventory											

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
19	Probabilistic Risk Assessment	1	19-1	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
	and Severe Accident Evaluation	1	19-2	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
	for New Reactors	1	19-3	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-4	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-5	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-6	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-7	2008/5/16	Y	Y	N	fin.	-	DCD_19-7	-	1
		1	19-8	2008/6/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-9	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-10	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-11	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-12	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-13	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-14	2008/5/16	N		N	fin.	-	-	N/A	N/A
		1	19-15	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-16	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-17	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-18	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-19	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-20	2008/6/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-21	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-22	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-23	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-24	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-25	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-26	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		1	19-27	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
		25	19-28	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-29	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-30	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-31	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-32	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-33	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-34	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-35	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-36	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-37	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-38	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-39	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-40	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-41	2008/7/25	N	N	N	fin.	-	-	N/A	N/A
		25	19-42	2008/7/25	N	N	Y	fin.	-	-	N/A	N/A
		25	19-43	2008/7/25	Y	N	N	fin.	-	DCD_19-43	-	2
		39	19-44	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-45	2008/11/11	N	N	Y	fin.	-	-	N/A	N/A
		39	19-46	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-47	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-48	2008/8/28	Y	Y	N	fin.	-	DCD_19-48	-	1
		39	19-49	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-50	2008/8/28	Y	Y	N	fin.	-	DCD_19-50	-	2
		39	19-51	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-52	2008/8/28	Y	Y	Y	fin.	-	DCD_19-52	-	2
		39	19-53	2008/8/28	Y	Y	N	fin.	-	DCD_19-53	-	2
		39	19-54	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-55	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-56	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-57	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-58	2008/8/28	Y	Y	N	fin.	-	DCD_19-58	-	2
		39	19-59	2008/8/28	Y	Y	N	fin.	-	DCD_19-59	-	2
		39	19-60	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-61	2008/8/28	Y	Y	N	fin.	-	DCD_19-61	1	2
		39	19-62	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-63	2008/8/28	Y	Y	N	fin.	-	DCD_19-63	-	2
		39	19-64	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-65	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-66	2008/8/28	Y	Y	N	fin.	-	DCD_19-66	-	2
		39	19-67	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-68	2008/9/25	Y	Y	Y	fin.	-	DCD_19-68	-	2
		39	19-69	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-70	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-71	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-72	2008/8/28	Y	Y	N	fin.	-	DCD_19-72	-	2

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
			19-73	2008/8/28	N	N	N	fin.	-			
		39		2009/1/9	Y	N	N	fin.	-	DCD_19-73	-	2
		39	19-74	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-75	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		39	19-76	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		39	19-77	2008/9/25	Y	N	N	fin.	-	DCD_19-77	-	2
		39	19-78	2008/9/25	N	N	N	fin.	-	-	N/A	N/A
		35	19-79	2008/8/22	N	N	Y	fin.	-	-	N/A	N/A
		35	19-80	2008/8/22	N	N	Y	fin.	-	-	N/A	N/A
		35	19-81	2008/8/22	N	N	Y	fin.	-	-	N/A	N/A
		35	19-82	2008/8/22	N	N	Y	fin.	-	-	N/A	N/A
		35	19-83	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		35	19-84	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		35	19-85	2008/8/22	N	N	N	fin.	-	-	N/A	N/A
		40	19-86	2008/8/28	Y	Y	N	fin.	-	DCD_19-86	-	2
		40	19-87	2008/8/28	Y	Y	N	fin.	-	DCD_19-87	1	2
		40	19-88	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-89	2008/8/28	Y	Y	N	fin.	-	DCD_19-89	1	2
		40	19-90	2008/9/25	Y	Y	N	fin.	-	DCD_19-90	3	2
		40	19-91	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-92	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-93	2008/8/28	Y	Y	N	fin.	-	DCD_19-93	3	2
		40	19-94	2008/8/28	Y	Y	N	fin.	-	DCD_19-94	1	2
		40	19-95	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-96	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-97	2008/8/28	Y	Y	N	fin.	-	DCD_19-97	1	2
		40	19-98	2008/8/28	Y	Y	N	fin.	-	DCD_19-98	3	2
		40	19-99	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		40	19-100	2008/8/28	N	N	N	fin.	-	-	N/A	N/A
		53	19-101	2008/9/18	Y	N	Y	fin.	-	DCD_19-101	1	2
		53	19-102	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		53	19-103	2008/9/18	N	N	Y	fin.	-	-	N/A	N/A
		53	19-104	2008/9/18	N	N	Y	fin.	-	-	N/A	N/A
		53	19-105	2008/9/18	N	N	Y	fin.	-	-	N/A	N/A
		56	19-106	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		56	19-107	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		56	19-108	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		56	19-109	2008/9/18	N	N	N	fin.	-	-	N/A	N/A
		56	19-110	2008/9/18	N	N	Y	fin.	-	-	N/A	N/A
		69	19-111	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		69	19-112	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		69	19-113	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		69	19-114	2008/10/7	N	N	N	fin.	-	-	N/A	N/A
		69	19-115	2008/10/7	Y	N	N	fin.	-	DCD_19-115	-	2
		81	19-116	2008/11/5	N	N	N	fin.	-	-	N/A	N/A
		81	19-117	2008/11/5	N	N	N	fin.	-	-	N/A	N/A
		81	19-118	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-119	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-120	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-121	2008/11/5	N	N	N	fin.	-	-	N/A	N/A
		81	19-122	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-123	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-124	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-125	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-126	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		81	19-127	2008/11/5	N	N	Y	fin.	-	-	N/A	N/A
		86	19-128	2008/11/19	N	N	N	fin.	-	-	N/A	N/A
		86	19-129	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-130	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-131	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-132	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-133	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-134	2008/11/19	N	N	Y	fin.	-	-	N/A	N/A
		86	19-135	2008/11/19	Y	N	Y	fin.	-	DCD_19-135	-	2
		88	19-136	2008/11/27	N	N	N	fin.	-	-	N/A	N/A
		88	19-137	2008/11/27	Y	N	N	fin.	-	DCD_19-137	-	2
		88	19-138	2009/1/9	N	N	N	fin.	-		N/A	N/A
		88	19-139	2009/1/9	N	N	N	fin.	-		N/A	N/A
		88	19-140	2009/1/9	Y	N	N		-	DCD_19-140	-	2
		88	19-141	2009/1/9	Y	N	N	fin.	-	DCD_19-141	1	2
		88	19-142	2009/1/9	Y	N	N	fin.	-	DCD_19-142	1	2
		88	19-143	2008/11/27	N	N	N	fin.	-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		88	19-144	2009/1/9	Y	N	N	fin.	-	DCD_19-144	1	2
		88	19-145	2009/1/9	N	N	N	fin.	-	-	N/A	N/A
		88	19-146	2008/11/27	N	N	N	fin.	-	-	N/A	N/A
		88	19-147	2009/1/9	Y	N	N	fin.	-	DCD_19-147	-	2
		88	19-148	2008/11/27	N	N	N	fin.	-	-	N/A	N/A
		88	19-149	2009/1/9	N	N	N	fin.	-		N/A	N/A
		88	19-150	2008/11/27	Y	N	N	fin.	-	DCD_19-150	-	2
		92	19-151	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-152	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-153	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-154	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-155	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-156	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-157	2008/12/5	Y	N	N	fin.	-	DCD_19-157	0	2
		92	19-158	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-159	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-160	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-161	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-162	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-163	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-164	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-165	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-166	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-167	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-168	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-169	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-170	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-171	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-172	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-173	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-174	2008/12/5	Y	N	N	fin.	-	DCD_19-174	1	2
		92	19-175	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-176	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-177	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-178	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-179	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-180	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-181	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		92	19-182	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		97	19-183	2008/12/8	N	N	N	fin.	-	-	N/A	N/A
		97	19-184	2008/12/8	N	N	Y	fin.	-	-	N/A	N/A
		97	19-185	2008/12/8	Y	N	N	fin.	-	DCD_19-185	-	2
		97	19-186	2008/12/8	N	N	N	fin.	-	-	N/A	N/A
		97	19-187	2008/12/8	N	N	N	fin.	-	-	N/A	N/A
		97	19-188	2008/12/8	N	N	Y	fin.	-	-	N/A	N/A
		97	19-189	2008/12/8	N	N	Y	fin.	-	-	N/A	N/A
		97	19-190	2008/12/8	N	N	N	fin.	-	-	N/A	N/A
		97	19-191	2008/12/8	N	N	N	fin.	-	-	N/A	N/A
		98	19-192	2008/12/5	N	N	N	fin.	-	-	N/A	N/A
		98	19-193	2008/12/5	N	N	Y	fin.	-	-	N/A	N/A
		100	19-194	2008/12/11	N	N	Y	fin.	-	-	N/A	N/A
		100	19-195	2008/12/11	N	N	N	fin.	-	-	N/A	N/A
		100	19-196	2008/12/11	N	N	N	fin.	-	-	N/A	N/A
		100	19-197	2008/12/11	N	N	Y	fin.	-	-	N/A	N/A
		100	19-198	2008/12/11	N	N	N	fin.	-	-	N/A	N/A
		100	19-199	2008/12/11	N	N	Y	fin.	-	-	N/A	N/A
		100	19-200	2008/12/11	N	N	N	fin.	-	-	N/A	N/A
		104	19-201	2008/12/19	N	N	N	fin.	-	-	N/A	N/A
		104	19-202	2008/12/19	N	N	Y	fin.	-	-	N/A	N/A
		104	19-203	2008/12/19	N	N	Y	fin.	-	-	N/A	N/A
		104	19-204	2008/12/19	N	N	Y	fin.	-	-	N/A	N/A
		104	19-205	2008/12/19	Y	N	N	fin.	-	DCD_19-205	-	2
		138	19-206	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-207	2009/3/10	Y	N	Y		-	DCD_19-207	-	2
		138	19-208	2009/3/10	Y	N	Y		-	DCD_19-208	-	2
		138	19-209	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-210	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-211	2009/2/6	Y	N	N		-	DCD_19-211	3	2
		138	19-212	2009/2/6	Y	N	Y		-	DCD_19-212	-	2
		138	19-213	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-214	2009/3/10	Y	N	N		-	DCD_19-214	-	2
		138	19-215	2009/2/6	N	N	N		-	-	N/A	N/A

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No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		138	19-216	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-217	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-218	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-219	2009/2/6	Y	N	N		-	DCD_19-219	1	2
		138	19-220	2009/2/6	Y	N	N		-	DCD_19-220	1	2
		138	19-221	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-222	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-223	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-224	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-225	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-226	2009/2/6	Y	N	Y		-	DCD_19-226	-	2
		138	19-227	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-228	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-229	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-230	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-231	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-232	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-233	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-234	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-235	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-236	2009/3/10	Y	N	N		-	DCD_19-236	-	2
		138	19-237	2009/2/6	Y	N	Y		-	DCD_19-237	-	2
		138	19-238	2009/2/6	Y	N	N		-	DCD_19-238	1	2
		138	19-239	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-240	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-241	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-242	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-243	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-244	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-245	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-246	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-247	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-248	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-249	2009/3/10	N	N	N		-	-	N/A	N/A
		138	19-250	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-251	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-252	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-253	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-254	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-255	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-256	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-257	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-258	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-259	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-260	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-261	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-262	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-263	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-264	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-265	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-266	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-267	2009/2/6	N	N	N		-	-	N/A	N/A
		138	19-268	2009/2/6	Y	N	N		-	DCD_19-268	1	2
		138	19-269	2009/2/6	N	N	Y		-	-	N/A	N/A
		138	19-270	2009/2/6	N	N	N		-	-	N/A	N/A
		148	19-271	2009/2/6	Y	Y	N		-	DCD_19-271	1	2
		148	19-272	2009/2/6	N	N	N		-	-	N/A	N/A
		148	19-273	2009/2/6	N	N	N		-	-	N/A	N/A
		148	19-274	2009/2/6	N	N	Y		-	-	N/A	N/A
		148	19-275	2009/3/10	Y	N	N		-	DCD_19-275	-	2
		148	19-276	2009/2/6	N	N	N		-	-	N/A	N/A
		148	19-277	2009/2/6	Y	N	N		-	DCD_19-277	3	2
		149	19-278	2009/2/6	N	N	N		-	-	N/A	N/A
		149	19-279	2009/2/6	N	N	N		-	-	N/A	N/A
		149	19-280	2009/3/10	N	N	N		-	-	N/A	N/A
		149	19-281	2009/3/10	N	N	N		-	-	N/A	N/A
		149	19-282	2009/2/6	Y	N	N		-	DCD_19-282	1	2
		149	19-283	2009/3/12	Y	N	N		-	DCD_19-283	-	2
		149	19-284	2009/2/6	N	N	N		-	-	N/A	N/A
		151	19-285	2009/3/13	N	N	Y		-	-	N/A	N/A
		151	19-286	2009/3/13	N	N	N		-	-	N/A	N/A
		151	19-287	2009/2/6	N	N	Y		-	-	N/A	N/A

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		151	19-290	2009/3/13	N	N	N		-	-	N/A	N/A
		177	19-291	2009/3/5	N	N	N		-	-	N/A	N/A
		178	19-292	2009/4/3	Y	N	Y		-	DCD_19-292	4	2
		178	19-293	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-294	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-295	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-296	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-297	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-298	2009/4/3	N	N	N		-	-	N/A	N/A
		178	19-299	2009/4/3	N	N	N		-	-	N/A	N/A
		197	19-300	2009/3/11	N	N	N		-	-	N/A	N/A
		197	19-301	2009/3/11	N	N	N		-	-	N/A	N/A
		197	19-302	2009/3/11	N	N	N		-	-	N/A	N/A
		197	19-303	2009/4/28	N	N	N		-	-	N/A	N/A
		197	19-304	2009/4/10	N	N	N		-	-	N/A	N/A
		197	19-305	2009/3/11	N	N	N		-	-	N/A	N/A
		266	19-306	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-307	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-308	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-309	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-310	2009/5/8	Y	N	N		-	DCD_19-310	3	2
		266	19-311	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-312	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-313	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-314	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-315	2009/5/8	Y	N	N		-	DCD_19-315	3	2
		266	19-316	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-317	2009/5/8	Y	N	N		-	DCD_19-317	-	2
		266	19-318	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-319	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-320	2009/5/8	N	N	N		-	-	N/A	N/A
		266	19-321	2009/5/8	N	N	N		-	-	N/A	N/A
		364	19-322	2009/6/12	Y	N	Y		-	DCD_19-322	-	2
		364	19-323	2009/6/12	Y	N	N		-	DCD_19-323	3	2
		364	19-324	2009/6/12	Y	N	Y		-	DCD_19-324	-	2
		364	19-325	2009/6/12	N	N	N		-	-	N/A	N/A
		364	19-326	2009/6/12	Y	N	N		-	DCD_19-326	3	2
		364	19-327	2009/6/12	Y	N	N		-	DCD_19-327	3	2
		364	19-328	2009/6/12	N	N	N		-	-	N/A	N/A
		364	19-329	2009/6/12	N	N	Y		-	-	N/A	N/A
		364	19-330	2009/6/12	N	N	N		-	-	N/A	N/A
		364	19-331	2009/6/12	N	N	Y		-	-	N/A	N/A
		364	19-332	2009/6/12	N	N	Y		-	-	N/A	N/A
		364	19-333	2009/6/12	N	N	N		-	-	N/A	N/A
		369	19-334	2009/6/12	Y	N	Y		-	DCD_19-334	-	2
		369	19-335	2009/6/12	Y	N	N		-	DCD_19-335	-	2
		369	19-336	2009/7/10	Y	N	N		-	DCD_19-336	-	2
		369	19-337	2009/6/12	Y	N	N		-	DCD_19-337	3	2
		369	19-338	2009/6/12	Y	N	N		-	DCD_19-338	-	2
		369	19-339	2009/6/12	N	N	N		-	-	N/A	N/A
		369	19-340	2009/7/10	Y	N	N		-	DCD_19-340	-	2
		369	19-341	2009/6/12	Y	N	Y		-	DCD_19-341	3	2
		369	19-342	2009/7/10	N	N	Y		-	-	N/A	N/A
		369	19-343	2009/6/12	Y	N	N		-	DCD_19-343	-	2
		369	19-344	2009/7/10	Y	N	N		-	DCD_19-344	-	2
		395	19-345	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-346	2009/7/17	Y	N	N		-	DCD_19-346	-	2
		395	19-347	2009/7/17	Y	N	N		-	DCD_19-347	4	2
		395	19-348	2009/7/17	Y	N	N		-	DCD_19-348	4	2
		395	19-349	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-350	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-351	2009/7/17	Y	N	N		-	DCD_19-351	4	2
		395	19-352	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-353	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-354	2009/7/17	N	N	N		-	-	N/A	N/A
		395	19-355	2009/7/17	Y	N	N		-	DCD_19-355	4	2
		395	19-356	2009/7/17	Y	N	N		-	DCD_19-356	-	2
		395	19-357	2009/7/17	Y	N	N		-	DCD_19-357	-	2
		395	19-358	2009/7/17	Y	N	N		-	DCD_19-358	-	2
		423	19-359	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-360	2009/9/7	Y	N	N		-	DCD_19-360	-	2
		423	19-361	2009/9/7	N	N	N		-	-	N/A	N/A

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		423	19-362	2009/9/7	Y	N	N		-	DCD_19-362	0	3
		423	19-363	2009/9/7	Y	N	N		-	DCD_19-363	0	3
		423	19-364	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-365	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-366	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-367	2009/9/7	Y	N	Y		-	DCD_19-367	-	2
		423	19-368	2009/9/7	Y	N	N		-	DCD_19-368	0	3
		423	19-369	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-370	2009/9/7	Y	N	N		-	DCD_19-370	-	2
		423	19-371	2009/9/7	Y	N	N		-	-	0	3
		423	19-372	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-373	2009/9/7	Y	N	Y		-	DCD_19-373	0	3
		423	19-374	2009/9/7	Y	N	N		-	DCD_19-374	-	2
		423	19-375	2009/9/7	Y	N	N		-	DCD_19-375	1	3
		423	19-376	2009/9/7	Y	N	N		-	DCD_19-376	0	3
		423	19-377	2009/9/7	N	N	Y		-	-	N/A	N/A
		423	19-378	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-379	2009/9/7	Y	N	Y		-	DCD_19-379	-	2
		423	19-380	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-381	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-382	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-383	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-384	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-385	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-386	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-387	2009/9/7	Y	N	N		-	DCD_19-387	0	3
		423	19-388	2009/9/7	N	N	N		-	-	N/A	N/A
		423	19-389	2009/9/7	Y	N	N		-	DCD_19-389	-	2
		433	19-390	2009/8/28	N	N	N		-	-	N/A	N/A
		443	19-391	2009/10/1	N	N	N		-	-	N/A	N/A
		443	19-392	2009/10/1	N	N	N		-	-	N/A	N/A
		443	19-393	2009/10/1	Y	N	N		-	DCD_19-393	-	2
		443	19-394	2009/10/1	N	N	N		-	-	N/A	N/A
		443	19-395	2009/10/1	N	N	N		-	-	N/A	N/A
		443	19-396	2009/10/1	Y	N	N		-	DCD_19-396	0	3
		443	19-397	2009/10/1	Y	N	N		-	DCD_19-397	0	3
		454	19-398	2009/10/9	N	N	Y		-	-	N/A	N/A
		454	19-399	2009/10/9	N	N	Y		-	-	N/A	N/A
		454	19-400	2009/10/9	N	N	Y		-	-	N/A	N/A
		454	19-401	2009/10/9	Y	N	Y		-	DCD_19-401	-	2
		479	19-402	2009/11/25	Y	N	N		-	DCD_19-402	1	3
		479	19-403	2009/11/25	Y	N	N		-	DCD_19-403	1	3
		479	19-404	2009/11/25	Y	N	N		-	DCD_19-404	1	3
		479	19-405	2009/11/25	N	N	N		-	-	N/A	N/A
		479	19-406	2009/11/25	N	N	N		-	-	N/A	N/A
		480	19-*** (1)	2009/11/26	N	N	N		-	-	N/A	N/A
		480	19-*** (2)	2009/11/26	N	N	N		-	-	N/A	N/A
		480	19-*** (3)	2009/11/26	N	N	N		-	-	N/A	N/A
		480	19-*** (4)	2009/11/26	N	N	N		-	-	N/A	N/A
		480	19-*** (5)	2009/11/26	N	N	N		-	-	N/A	N/A
		480	19-*** (6)	2009/11/26	N	N	N		-	-	N/A	N/A
		528	19-407	2010/3/3	Y	N	N		-	DCD_19-407	2	3
		528	19-408	2010/3/3	Y	N	N		-	DCD_19-408	2	3
		528	19-409	2010/3/3	Y	N	N		-	DCD_19-409	2	3
		528	19-410	2010/3/3	Y	N	N		-	DCD_19-410	2	3
		528	19-411	2010/3/3	N	N	N		-	-	N/A	N/A
		528	19-412	2010/3/3	Y	N	N		-	DCD_19-412	3	3
		528	19-413	2010/3/3	Y	N	N		-	DCD_19-413	3	3
		528	19-414	2010/3/3	Y	N	N		-	DCD_19-414	2	3
		528	19-415	2010/3/3	Y	N	N		-	DCD_19-415	2	3
		528	19-416	2010/3/3	Y	N	N		-	DCD_19-416	2	3
		528	19-417	2010/3/3	Y	N	N		-	DCD_19-417	2	3
		528	19-418	2010/3/3	Y	N	N		-	DCD_19-418	2	3
		528	19-419	2010/3/3	Y	N	N		-	DCD_19-419	2	3
		528	19-420	2010/3/3	Y	N	N		-	DCD_19-420	2	3
		528	19-421	2010/3/3	Y	N	N		-	DCD_19-421	3	3
		528	19-422	2010/3/3	Y	N	N		-	DCD_19-422	2	3
		564	19-423	2010/4/28	Y	N	N		-	DCD_19-423	3	3
		564	19-424	2010/4/28	Y	N	N		-	DCD_19-424	3	3
		564	19-425	2010/4/28	Y	N	N		-	DCD_19-425	3	3
		564	19-426	2010/4/28	Y	Y	N		-	DCD_19-426	3	3
		564	19-427	2010/4/28	Y	N	N		-	DCD_19-427	3	3

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		564	19-428	2010/4/28	Y	N	N		-	DCD_19-428	3	3
		566	19-429	2010/4/28	Y	N	N		-	DCD_19-429	3	3
			19-430									
			19-431									
			19-432									
			19-433									
			19-434									
			19-435									
		601	19-436	2010/7/26	Y	N	N		-	DCD_19-436	4	3
		601	19-437	2010/7/26	Y	N	N		-	DCD_19-437	4	3
		607	19-438	2010/9/3	Y	N	Y		-	DCD_19-438	5	3
		608	19-439	2010/9/3	Y	N	N		-	DCD_19-439	-	3
		608	19-440	2010/9/3	Y	N	N		-	DCD_19-440	5	3
		609	19-441	2010/9/3	Y	N	N		-	DCD_19-441	-	3
		610	19-442	2010/9/3	N	N	N		-	-	N/A	N/A
		619	19-443	2010/9/10	N	N	N		-	-	N/A	N/A
		622	19-444	2010/9/29	N	N	Y		-	-	N/A	N/A
		622	19-445	2010/9/29	N	N	N		-	-	N/A	N/A
		622	19-446	2010/9/29	N	N	Y		-	-	N/A	N/A
		627	19-447	2010/11/1	Y	N	N		-	DCD_19-447	-	3
		627	19-448	2010/11/29	N	N	N		-	-	N/A	N/A
		627	19-449	2010/11/1	Y	N	Y		-	DCD_19-449	-	3
		627	19-450	2010/11/1	Y	N	Y		-	DCD_19-450	-	3
		627	19-451	2010/11/1	N	N	N		-	-	N/A	N/A
		627	19-452	2010/11/1	N	N	N		-	-	N/A	N/A
		627	19-453	2010/11/1	N	N	N		-	-	N/A	N/A
		627	19-454	11/1/2010	Y	N	N		-	DCD_19-454	5	3
		639	19-455	10/29/2010	Y	N	N		-	DCD_19-455	5	3
		639	19-456	10/29/2010	Y	N	N		-	DCD_19-456	5	3
		639	19-457	10/29/2010	Y	N	N		-	DCD_19-457	5	3
		639	19-458	10/29/2010	Y	N	Y		-	DCD_19-458	5	3
		639	19-459	10/29/2010	N	N	N		-	-	N/A	N/A
		639	19-460	10/29/2010	N	N	N		-	-	N/A	N/A
		639	19-461	10/29/2010	N	N	Y		-	-	N/A	N/A
		639	19-462	10/29/2010	N	N	N		-	-	N/A	N/A
		639	19-463	10/29/2010	N	N	N		-	-	N/A	N/A
		639	19-464	10/29/2010	Y	N	Y		-	DCD_19-464	5	3
		639	19-465	10/29/2010	N	N	N		-	-	N/A	N/A
		640	19-466	10/29/2010	N	N	N		-	-	N/A	N/A
		640	19-467	10/29/2010	Y	N	N		-	DCD_19-467	5	3
		640	19-468	10/29/2010	N	N	N		-	-	N/A	N/A
		640	19-469	10/29/2010	Y	N	N		-	DCD_19-469	5	3
		640	19-470	10/29/2010	Y	N	N		-	DCD_19-470	5	3
		640	19-471	10/29/2010	N	N	Y		-	-	N/A	N/A
		640	19-472	10/29/2010	Y	N	Y		-	DCD_19-472	-	3
		641	19-473	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-474	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-475	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-476	10/29/2010	Y	N	Y		-	DCD_19-476	-	3
		641	19-477	10/29/2010	N	N	Y		-	-	N/A	N/A
		641	19-478	10/29/2010	Y	N	N		-	DCD_19-478	5	3
		641	19-479	10/29/2010	Y	N	Y		-	DCD_19-479	-	3
		641	19-480	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-481	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-482	10/29/2010	N	N	N		-	-	N/A	N/A
		641	19-483	10/29/2010	Y	N	Y		-	DCD_19-483	-	3
		649	19-484	2010/11/12	N	N	N		-	-	N/A	N/A
		649	19-485	2010/11/12	Y	N	Y		-	DCD_19-485	6	3
		649	19-486	2010/11/12	N	N	Y		-	-	N/A	N/A
		649	19-487	2010/11/12	N	N	Y		-	-	N/A	N/A
		649	19-488	2010/11/12	Y	N	N		-	DCD_19-488	-	3
		649	19-489	2010/11/12	Y	N	Y		-	DCD_19-489	6	3
		649	19-490	2010/11/12	Y	N	N		-	DCD_19-490	6	3
		649	19-491	2010/11/12	Y	N	Y		-	DCD_19-491	6	3
		669	19-492	2010/12/27	Y	N	N		-	DCD_19-492	1	
		669	19-493	2010/12/27	Y	N	Y		-	DCD_19-493	1	
				2011/7/20	Y	N	Y		-		1	
		669	19-494	2010/12/27	N	N	N		-	-	N/A	N/A
		681	19-495	2011/2/17	Y	N	N		-	DCD_19-495	0	
		681	19-496	2011/2/17	Y	N	N		-	DCD_19-496	0	
		681	19-497	2011/2/17	Y	N	N		-	DCD_19-497	TBD	
		681	19-498	2011/2/17	Y	N	N		-	DCD_19-498	TBD	

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SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
		707	19-499	2011/3/29	Y	N	N		-	DCD_19-499	0	
		714	19-500	2011/4/8	Y	N	N		-	DCD_19-500	0	
		714	19-501	2011/4/8	N	N	N		-	-	N/A	N/A
		744	19-502	2011/5/27	N	N	N		-	-	N/A	N/A
				2011/8/2	N	N	N		-	-	N/A	N/A
				2011/9/8	N	N	N		-	-	N/A	N/A
		744	19-503	2011/5/27	N	N	N		-	-	N/A	N/A
				2011/8/2	Y	N	N		-	DCD_19-503	1	
				2011/9/8	Y	N	N		-		TBD	
		744	19-504	2011/5/27	N	N	N		-	-	N/A	N/A
				2011/8/2	N	N	N		-	-	N/A	N/A
				2011/9/8	N	N	N		-	-	N/A	N/A
		744	19-505	2011/5/27	N	N	N		-	-	N/A	N/A
				2011/8/2	N	N	N		-	-	N/A	N/A
				2011/9/8	N	N	N		-	-	N/A	N/A
		749	19-506	2011/5/27	N	N	N		-	-	N/A	N/A
				2011/7/20	Y	N	N		-	DCD_19-506	1	
		750	19-507	2011/6/30	N	N	N		-	-	N/A	N/A
		750	19-508	2011/6/30	Y	Y	N		-	DCD_19-508	0	
		750	19-509	2011/6/30	N	N	N		-	-	N/A	N/A
		750	19-510	2011/6/30	Y	N	N		-	DCD_19-510	0	
		750	19-511	2011/6/30	Y	N	N		-	DCD_19-511	0	
		750	19-512	2011/6/30	Y	N	N		-	DCD_19-512	0	
		750	19-513	2011/6/30	Y	N	N		-	DCD_19-513	0	
		750	19-514	2011/6/30	Y	N	N		-	DCD_19-514	0	
		750	19-515	2011/6/30	N	N	N		-	-	N/A	N/A
		750	19-516	2011/6/30	Y	N	N		-	DCD_19-516	0	
		750	19-517	2011/6/30	N	N	N		-	-	N/A	N/A
		750	19-518	2011/6/30	Y	Y	N		-	DCD_19-518	0	
		750	19-519	2011/6/30	Y	N	N		-	DCD_19-519	0	
		752	19-520	2011/7/12	N	N	N		-	-	N/A	N/A
		752	19-521	2011/7/12	N	N	N		-	-	N/A	N/A
		752	19-522	2011/8/23	Y	N	N			DCD_19-522	TBD	
		752	19-523	2011/6/3	N	N	N		-	-	N/A	N/A
		761	19-524	2011/6/29	Y	N	Y		-	DCD_09-524	TBD	
		761	19-525	2011/6/29	Y	Y	N		-	DCD_09-525	0	
		761	19-526	2011/6/29	Y	Y	N		-	DCD_09-526	TBD	
		764	19-527	2011/7/15	N	N	N		-	-	N/A	N/A
		764	19-528	2011/7/15	N	N	N		-	-	N/A	N/A
		764	19-529	2011/9/8	N	N	N		-	-	N/A	N/A
		764	19-530	2011/9/8	N	N	N		-	-	N/A	N/A
		764	19-531	2011/7/15	N	N	N		-	-	N/A	N/A
		773	19-532	2011/8/23	Y	N	N		-	DCD_19-532	1	
		773	19-533	2011/8/23	Y	N	N		-	DCD_19-533	1	
		773	19-534	2011/8/23	Y	N	N		-	DCD_19-534	1	
		773	19-535	2011/8/23	Y	N	N		-	DCD_19-535	1	
		773	19-537	2011/8/23	Y	N	N		-	DCD_19-537	1	
		773	19-538	2011/8/23	Y	N	N		-	DCD_19-538	1	
		773	19-539	2011/8/23	Y	N	N		-	DCD_19-539	1	
		773	19-540	2011/8/23	N	N	N		-	-	N/A	N/A
		773	19-541	2011/8/23	Y	N	N		-	DCD_19-541	1	
		773	19-542	2011/8/23	Y	N	N		-	DCD_19-542	1	
		773	19-543	2011/8/23	Y	N	N		-	DCD_19-543	1	
		773	19-544	2011/8/23	Y	N	N		-	DCD_19-544	1	
		773	19-545	2011/8/23	Y	N	N		-	DCD_19-545	TBD	
		783	19-546	2011/8/24	N	N	N		-	-	N/A	N/A
		783	19-547	2011/8/24	Y	N	N		-	DCD_19-547	1	
		783	19-548	2011/8/24	N	N	N		-	-	N/A	N/A
		823	19-549	2011/10/5	Y	N	Y		-		TBD	
		832	19-550	10/27/2011	Y	N	N		-	DCD_19-550	1	
		832	19-551	10/27/2011	Y	N	N		-	DCD_19-551	1	
		834	19-552	11/08/2011	Y	N	N		-	DCD_19-552	1	
		834	19-553	11/08/2011	Y	N	N		-	DCD_19-553	1	
		834	19-554	11/08/2011	Y	N	N		-	DCD_19-554	1	
		834	19-555	11/08/2011	N	N	N		-	-	N/A	N/A
		834	19-556	11/08/2011	Y	N	N		-	DCD_19-556	1	
		834	19-557	11/08/2011	Y	N	N		-	DCD_19-557	1	
		834	19-558	11/08/2011	N	N	N		-	-	N/A	N/A
		872	19-561	12/20/2011	Y	N	N		-	DCD_19-561	TBD	
		872	19-562	12/20/2011	N	N	N		-	-	N/A	N/A

Chapter:19

SRP Section		DCD RAI Response							Other Drivers	Change ID Number for DCD forthcoming Revision	DCD Tracking Report Revision	DCD Revision
No.	Title	RAI No.	Question No.	Response Date	Impact on DCD	Impact on COLA	Impact on PRA	Response Status				
19.1	Determining the Technical Adequacy	151	19-288	2009/4/10	N	N	N		-	-	N/A	N/A
	of Probabilistic Risk Assessment	151	19-289	2009/4/9	N	N	N		-	-	N/A	N/A
	Results for Risk-Informed Activities	577	19.01-1	2010/5/26	Y	N	N		-	DCD_19.01-1	4	3
		621	19.01-2	2010/9/29	Y	N	N		-	DCD_19.01-2	5	3
		621	19.01-3	2010/9/29	Y	N	N		-	DCD_19.01-3	5	3
		621	19.01-4	2010/9/29	Y	N	N		-	DCD_19.01-4	5	3
		621	19.01-5	2010/9/29	Y	N	N		-	DCD_19.01-5	5	3
				2011/7/20	Y	N	N		-	DCD_19-506	1	
		621	19.01-6	2010/9/29	Y	N	Y		-	DCD_19.01-6	5	3
		621	19.01-7	2010/9/29	Y	N	Y		-	DCD_19.01-7	5	3
		-	-	-	-	-	-	-	COL 19.3(5) deleted	MAP-19-001	-	2
		628	19.01-8	2010/10/14	Y	N	N		-	DCD_19.01-8	5	3
		668	19.01-9	2010/12/27	N	N	N		-	-	N/A	N/A
		668	19.01-10	2010/12/27	Y	N	N		-	DCD_19.01-9	1	
		668	19.01-11	2010/12/27	Y	N	N		-	DCD_19.01-10	TBD	
19.2	Review of Risk Information	2	01-1	2008/5/16	N	N	N	fin.	-	-	N/A	N/A
	Used to Support Permanent Plant -											
	Specific Changes											
	to the Licensing Basis:											
	General Guidance											

US-APWR DCD (Revision 3)

Tracking Report Revision 1

Tier 1

Tier 1 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
MIC-03-07-00003	2.5.1.1	2.5-3	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised the description of the item 24.	-
MIC-03-07-00004	2.5.1.1	2.5-3	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised the description of the item 25a and 25b.	-
MIC-03-07-00001	Table 2.5.1-3 (Sheet 2, 3 of 3)	2.5-8 2.5-9	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised the title of the table.	-
DCD_07.06-26	Table 2.5.1-4	2.5-9	Response to RAI No. 702 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Deleted the second item.	-
MIC-03-07-00003 MIC-03-07-00004	Table 2.5.1-6	2.5-11 through 2.5-19	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised the number of the sheet. Revised the item 24. Revised the item 25a and 25b.	-
DCD_14.03.05-31	2.5.2.1	2.5-25	Response to RAI No. 275 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the word “through hot shutdown”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_14.03.05-31	Table 2.5.2-1	2.5-27	Response to RAI No. 275 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the following items. - Supply boric acid water to RCS (SIS) - Component cooling by operating CCW and ESW (CCWS and ESWS)	-
DCD_14.03.05-31	Table 2.5.2-2	2.5-27	Response to RAI No. 275 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the word “through hot shutdown” in the title of the table.	-
MIC-03-07-00005	Table 2.5.3-2	2.5-33	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the word “”automatic” to the 2nd item, and added “Main Steam Line Isolation Valve”.	-
MIC-03-07-00005	Table 2.5.3-3	2.5-34	MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added “low-low pressurizer pressure” and “Main Steam Isolation”.	-
DCD_03.07.02-35	Table 2.2-2	2.2-6 2.2-21	Response to RAI No. 542 MHI Letter No. UAP-HF-11195 Date 06/30/2011	Revised Table 2.2-2 to accurately reflect concrete wall thickness.	-
MIC-03-T1-00001	2.6.6.1	2.6-52 [2.6-51]	1/20/2011 ITAAC public meeting	Reworded to be consistent with Tier	0

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			comment resolution	2 description.	
MIC-03-T1-00001	Table 2.6.6-1	2.6-54 2.6-55 [2.6-53 2.6-54]	1/20/2011 ITAAC public meeting comment resolution	Reworded to be consistent with Tier 2 description.	0
MIC-03-T1-00001	Table 2.7.1.2-5 (Sheet 9 of 9)	2.7-21	2/17/2011 ITAAC public meeting comment resolution	Clarified ITAAC test conditions.	0
MIC-03-T1-00001	2.7.5.3.1.4 Table 2.7.5.3-1	2.7-207 2.7-208 [2.7-208, 2.7-209]	3/15/2011 ITAAC public meeting comment resolution	Deleted item 4 and combined into Table 2.2-4, Items 23.a and 23.b. (See Change ID No. DCD_09.02.02-48)	0
MIC-03-T1-00001	2.7.5.4.1.4	2.7-211 [2.7-212]	3/15/2011 ITAAC public meeting comment resolution	Deleted item 11 and combined into Table 2.2-4, Items 23.a and 23.b. (See Change ID No.DCD_09.02.02-48)	0
MIC-03-T1-00001	Table 2.7.5.4-3(Sheet 4 of 4)	2.7-217 [2.7-218]	3/15/2011 ITAAC public meeting comment resolution	Deleted item 11 and combined into Table 2.2-4, Items 23.a and 23.b. (See Change ID No. DCD_09.02.02-48)	0
MIC-03-T1-	2.7.6.4.1	2.7-234	3/15/2011 ITAAC public	Reworded to use consistent ITAAC	0

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
00001		[2.7-235]	meeting comment resolution	word for seismic Category II/I interaction.	
MIC-03-T1-00001	Table 2.7.6.4-2 (Sheet 1 of 4)	2.7-237 [2.7-238]	3/15/2011 ITAAC public meeting comment resolution	Reworded to use consistent ITAAC word for seismic Category II/I interaction.	0
MIC-03-T1-00001	2.7.6.5.1	2.7-241 [2.7-242]	3/15/2011 ITAAC public meeting comment resolution	Rewording to use consistent ITAAC word for seismic Category II/I interaction.	0
MIC-03-T1-00001	Table 2.7.6.5-1 (Sheet 1 of 5)	2.7-243 [2.7-244]	3/15/2011 ITAAC public meeting comment resolution	Rewording to use consistent ITAAC word for seismic Category II/I interaction.	0
DCD_09.02.02-80 This change is superseded by the amend RAI Response.	Figure 2.7.3.3-1(sheet 2 of 2) Table 2.7.3.3-2 (Sheet 8 of 8) 2.7.3.3-4 (sheet 3 of 3) 2.7.3.6-1 2.7. 3.6-2	2.7-128 2.7-114 2.7-118 2.7-150	Response to RAI No. 697 MHI Letter No. UAP-HF-11133 Date 05/12/2011	Revised the Figure 2.7.3.3-1 (sheet 2 of 2) to reflect alternative cooling water line. Revised the Figure 2.7.3.6-1 to change the valve number. Revised the Table 2.7.3.3-2, Table 2.7.3.3-4, Table 2.7.3.6-1 and Table 2.7.3.6-2 to reflect	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				alternative cooling water line isolation valves.	
DCD_14.03.06-20	2.6.1.1 Table 2.6.1-3 2.6.4.1 Table 2.6.4-1 (Sheet 4 of 10)	2.6-2 2.6-7 2.6-33 2.6-39	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Sections 2.6.1.1 design description 5 and 2.6.4.1 design description12.b and Tables 2.6.1-3 ITAAC #5 and 2.6.4-1 ITAAC #12.b.	-
DCD_14.03.06-22	Table 2.6.4-1 (Sheet 4, 5 of 10)	2.6-39 2.6-40	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Section 2.6.4.1 Design Description 11 and Table 2.6.4-1, ITAAC#11.	-
DCD_14.03.06-23	2.6.4.1 Table 2.6.4-1 (Sheet 4, 5 of 10)	2.6-33 2,6-40	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Section 2.6.4.1 Design Description 16 and Table 2.6.4-1 ITAAC #16.	-
DCD_14.03.06-24	2.6.4.2 Table 2.6.4-1 (Sheet 5 of 10)	2.6-34 2.6-40	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Section 2.6.4.2 Design Description 19 and Table 2.6.4-1 ITAAC #19 Added 2 new paragraphs.	-
DCD_14.03.06-25	2.6.4.2 Table 2.6.4-1 (Sheet 9 of	2.6-34	Response to RAI No. 754 MHI Letter No. UAP-HF-11222	Revised Section 2.6.4.2 Design Description 25 and Table 2.6.4-1 ITAAC	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	10)		Date 7/15/2011	#25	
DCD_14.03.06-26	2.6.4.2 Table 2.6.4-1 (Sheet 9 of 10)	2.6-35 2.6-44	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Section 2.6.4.2 Design Description 30 and Table 2.6.4-1 ITAAC #30	-
DCD_14.03.06-28	Table 2.6.4-2	2.6-46	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Table 2.6.4-2.	-
DCD_09.02.02-48	2.2.3.1 Table 2.2-4 Table 2.5.1-4 Table 2.7.3.3-2 sheets 1 and 2	2.2-4 2.2-26 2.5-9 2.7-107 2.7-108	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Revised Subsection 2.2.3.1, Item 23 to Seismic Category II include systems and components. Revised Table 2.2-4, Item 23 to Seismic Category II include systems and components. Revised Table 2.5.1-4: Deletion of “Component Cooling Water Supply and Return Header Tie Line Isolation Interlock. Revised Table 2.7.3.3-2 (Sheet 1 of 8): Remove Low-low CCW surge tank level, (S+UV) and P	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				signals as applicable to control of NCS-MOV-020 A, B, C, D. Revised Table 2.7.3.3-2 (Sheet 2 of 8): Remove Low-low CCW surge tank level, (S+UV) and P signals as applicable to control of NCS-MOV-007 A, B, C, D.	
DCD_09.02.02-49	2.7.3.3.1 Table 2.7.3.3-1 (sheets 1 and 2) Table 2.7.3.3-3 (sheets 1 and 2) Table 2.7.3.3-4 (sheets 2) Table 2.7.3.3-5 (sheet 5) Figure 2.7.3.3-1 (sheets 1 and 2)	2.7-103 2.7-105 2.7-106 2.7-111 2.7-112 2.7-115 2.7-116 2.7-124 2.7-128 2.7-129	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Revised 2.7.3.3.1: reflect 7 days without surge tank makeup. Revised Table 2.7.3.3-1: reflect revised valve isolation component location. Revised Table 2.7.3.3-2 and 2.7.3.3-4: reflect deleted isolation valve for non-seismic portion. Revised Table 2.7.3.3-2 and 2.7.3.3-4: reflect isolation valve for	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				non-safety piping. Revised Table 2.7.3.3-3: reflect revised piping characteristics. Revised Table 2.7.3.3-5: add Design Commitment of 7 days without surge tank makeup Revised Figure 2.7.3.3-1: reflect revised valve isolation configuration for non-safety piping. Revised Figure 2.7.3.3-1: reflect revised surge tank design.	
DCD_09.02.02-51	Figure 2.7.3.3-1	-	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Revised Figure 2.7.3.3-1to delete the RWSP as source for surge tank makeup.	-
DCD_09.02.01-52	Table 2.7.3.1-2 (Sheet 2)	2.7-91	Response to RAI No. 585	Revised Tier 1 Table 2.7.3.1-2 to match	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			MHI Letter No. UAP-HF-11235 Date 7/27/2011	the new description added to Subsection 9.2.1.2.2.2.	
DCD_09.02.02-58	Table 2.7.3.3-1 (sheets 2) Table 2.7.3.3-2 (sheets 2, 3, 4) Table 2.7.3.3-3 (sheets 1 and 2) Table 2.7.3.3-4 (sheet 1) Table 2.11.2-1 (sheet 9) Table 2.11.2-2 (sheet 10)	2.7-106 2.7-108 2.7-109 2.7-110 2.7-115 2.7-116 2.7-117 2.11-17 2.11-27	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Delete references to NCS-MOV-445A/B, MOV-447A/B, MOV-448A/B in table 2.7.3.3-1, 2, 3 and 4, table 2.7.3.3-4, table 2.11.2-1 and 2. Update information for NCS-MOV-401A/B, MOV-402A/B, MOV-436A/B and MOV-438A/B in table 2.7.3.3-1, 2, 3 and 4, table 2.7.3.3-4, table 2.11.2-1 and 2.	-
DCD_09.02.02-68 This change is superseded by the amend RAI Response.	2.7.3.3.1 Table 2.7.3.3-2 (sheet 1) Table 2.7.3.3-5 (sheet 5 and 6 of 8)	2.7-102 2.7-107 2.7-123	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Revise “Design Description” in subsection 2.7.3.3.1 for the supply headers A2 & C2. Correct “Active Safety Function” for valves NCS-VLV-016A/B/C/D in table 2.7.3.3-2 Revise surge tank volume consistent with design change in Table 2.7.3.3-5.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Add ITAAC for flow rate to CCWS important users in Table 2.7.3.3-5.	
DCD_09.02.02-76	2.7.3.6.1 Table 2.7.3.6-1 Table 2.7.3.6-2 Table 2.7.3.6-3 Figure 2.7.3.6-1	2.7-149 2.7-150 2.7-151 2.7-152	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Revised the following in Subsection 2.7.3.6.1. “The functional arrangement of the non-ECWS is as described in the Design Description of Subsection 2.7.3.6.1 Deleted Table 2.7.3.6-1, 2.7.3.6-2 and Figure 2.7.3.6-1. Revised the design commitment and the acceptance criteria of 1st item as follows; “The functional arrangement of the non-ECWS is as described in the Design Description of Subsection 2.7.3.6.1 “The as-built non-ECWS conforms to the functional	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				arrangement described in the Design Description of Subsection 2.7.3.6.1	
DCD_09.02.02-77	Table 2.7.3.5-5 (Sheet 7)	2.7-146	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Revised Inspection, Test, Analyses of 14th item as follows; "Inspection and analysis of the as-built ECW compression tank size will be performed to verify that the tank volume accommodates system thermal expansion and contraction, and 7-day system operation without makeup."	-
DCD_09.02.02-80	Figure 2.7.3.6-1 Table 2.7.3.3-2 Table 2.7.3.3-4 Table 2.7.3.6-1 Table 2.7.3.6-2	2.7-128 2.7-152 2.7-114 2.7-118 2.7-150	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 07/29/2011	Revised Table 2.7.3.3-2 to add the valves associated with the alternative sources. Revised Table 2.7.3.3-4 to add the NCS-MOV-241 and 242. Revised Table 2.7.3.6-1 to delete the VWS-MOV-424	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				and 425. Revised Table 2.7.3.6-2 to delete the VWS-MOV-424 and 425.	
DCD_09.04.03-16	Table 2.7.5.4-3 (sheet 3 of 4)	2.7-216	Response to RAI No. 779 MHI Letter No. UAP-HF-11259 Date 8/11/2011	Revised design commitment of ITAAC No.10 as follows; “The auxiliary building HVAC system provides a flow rate and a flow balance that maintains a negative pressure in the radiological controlled areas during normal operation.” Revised acceptance criteria of ITAAC No.10 as follows; “A report exists and concludes that the as-built auxiliary building HVAC system maintains exhaust airflow ≥216,000 cfm and exhaust airflow greater than or equal to supply airflow, with any two of	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				operating as-built auxiliary building exhaust fans, that maintains a negative pressure in the radiological controlled areas under normal operating conditions.”	
DCD_09.02.02-48	2.2.3.1 Table 2.2-4 Table 2.5.1-4 Table 2.7.3.3-2 sheets 1 and 2	2.2-4 2.2-26 2.5-9 2.7-107 2.7-108	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Revised Subsection 2.2.3.1, Item 23 to Seismic Category II include systems and components. Revised Table 2.2-4, Item 23 to Seismic Category II include systems and components. Revised the table 2.5.1-4 to reflect the interlock of A2(C2) CCW supply line isolation. Revised Table 2.7.3.3-2 (Sheet 1 of 8): Remove Low-low CCW surge tank level, (S+UV) and P signals as applicable to control of NCS-MOV-020 A, B, C, D. Revised Table	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				2.7.3.3-2 (Sheet 2 of 8): Remove Low-low CCW surge tank level, (S+UV) and P signals as applicable to control of NCS-MOV-007 A, B, C, D.	
DCD_09.02.02-68	Table 2.7.3.3-2 (Sheet 1 of 8) Table 2.7.3.3-4 (Sheet 2 of 3) Table 2.7.3.3-5 (sheet 5 and 6 of 8)	2.7-102 2.7-107 2.7-114 2.7-118 2.7-124 2.7-125	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Revise “Design Description” in subsection 2.7.3.3.1 for the supply headers A2 & C2. Correct “Active Safety Function” for valves NCS-VLV-016A/B/C/D in table 2.7.3.3-2 Revised the table 2.7.3.3-2 to reflect change of the channel number of CCW surge tank level gauge. Revised the table 2.7.3.3-2 to reflect addition of the channel of CCW surge tank level gauge. Revised the table 2.7.3.3-4 to reflect change of the	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				channel number of CCW surge tank level gauge. Revised the table 2.7.3.3-4 to reflect addition of the channel of CCW surge tank level gauge. Revise surge tank volume consistent with design change in Table 2.7.3.3-5. Add ITAAC for flow rate to CCWS important users in Table 2.7.3.3-5.	
DCD_07.01-30	Table 2.5.4-3	2.5-44	Response to RAI No. 722 MHI Letter No. UAP-HF-11159 Date 5/31/2011	Revise the item 1 and added items 2 and 3 in Table 2.5.4-3.	-
DCD_16-298	Table 2.5.4-3	2.5-44	UAP-HF-11340 Date 10/6/2011	Revise the Table-2.5.4-3 to consist with Table 7.5-5.	-
DCD_08.03.01-38	2.6.5.1 Table 2.6.5-1	2.6-46,47 2.6-50	Response to RAI No. 394 MHI Letter No. UAP-HF-11404 Date 11/22/2011	Revised the description for adopting different manufacturers for the AAC GTG and Class 1E GTG ensures diversity.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.08-24	2.5.3.1 Table 2.5.3-4 (sheet 2,3)	2.5-31 2.5-32 2.5-36 2.5-37	Response to RAI No. 775 MHI Letter No. UAP-HF-11412 Date 11/29/2011	Revised Section 2.5.3.1 for RAI response. Revised Sheet 2 and 3 of Table 2.5.3-4 for RAI response	-
DCD_09.01.03-8	Table 2.7.6.3-1 Table 2.7.6.3-3	2.7-225 2.7-226	Response to RAI No. 756 MHI Letter No. UAP-HF-11255 Date 8/10/2011	Added the information of SFP level, SFP temperature and SFP pump discharge flow. Added the pump stop function caused by low-low SFP water level.	-
MIC-03-T1-00004	Table 2.1-1 (Sheet 1 of 7)	2.1-2	Correcting inappropriate naming for a parameter	Delete “annual” from the descriptions of Ambient design air temperature	1
MIC-03-T1-00003	Tier 1 2.4.4 Table 2.4.4-5 (Sheet 6 of 10) ITAAC item 7.b.iv	2.4-51 [2.4-50]	GSI-191 Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Acceptance criteria of the minimum strainer surface area is replaced with “2,730 ft^2 per sump”, which is reduced by tolerance from nominal surface area 2,754 ft^2.	1
DCD_06.02.02-38	Tier 1 Figure 2.4.4-1	2.4-60 [2.4-59]	GSI-191, Response to	Add the wording, “(one of 10 pcs).”	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	(Sheet 4 of 4)		RAI No. 354 MHI Letter No. UAP-HF-09365 Date 07/07/2009	(Clean-up item)	
MIC-03-T1-00002	2.5.1.1 Table 2.5.1-2 Table 2.5.1-3 Table 2.5.1-6 (sheet 10) 2.5.6.1 Table 2.5.6-1 (Sheet 1) Figure 2.5.6-1	2.5-1 2.5-4 2.5-6 2.5-7 2.5-8 2.5-9 2.5-19[2.5-20]2.5-49 2.5-51 [2.5-52]2.5-53 [2.5-54]	Response to RAI No. 771/778 MHI Letter No. UAP-HF-11244 Date 8/1/2011	Revised the 1st sentence of Section 2.5.1.1. Added the item 31 in Section 2.5.1.1. Added the column of "Response Time Requirement" in Table 2.5.1-2. Added the column of "Response Time Requirement" in Table 2.5.1-3. Added the item 31 in Table 2.5.1-6. Deleted item 2 in Section 2.5.6.1. Deleted item 2 in Section Table 2.5.6-1. Added "multidivisional S-VDU" in Figure 2.5.6-1.	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is “-“, the change was not made in a T/R.

Table 2.1-1 Key Site Parameters
(Sheet 1 of 7)

Meteorology	
Parameter Description	**Parameter Value**
Normal winter precipitation roof load(11)	50 lb/ft^2
Extreme winter precipitation roof load(12)	75 lb/ft^2
48-hr probable maximum winter precipitation (PMWP)	36 in.
Tornado maximum wind speed	230 mph
	184 mph maximum rotational
	46 mph maximum translational
Radius of maximum rotational speed	150 ft
Tornado maximum pressure drop	1.2 psi
Rate of pressure drop	0.5 psi/s
Tornado-generated missile spectrum and associated velocities	15 ft long schedule 40 steel pipe moving horizontally at 135 ft/s(1)
	4,000 lb automobile moving horizontally at 135 ft/s(1)
	1 in diameter steel sphere moving horizontally at 26 ft/s(1)
Extreme wind speed (other than tornado)	155 mph for 3-second gusts at 33 ft above ground level based on 100-year return period, with importance factor of 1.15 for seismic category I&II structures
Ambient design air temperature (1% annual exceedance maximum)	100°F dry bulb, 77°F coincident wet bulb, 81°F non-coincident wet bulb
Ambient design air temperature (0% ~~annual~~ exceedance maximum)	115°F dry bulb, 80°F coincident wet bulb, historical limit excluding peaks <2 hr
Ambient design air temperature (1% annual exceedance minimum)	-10°F dry bulb
Ambient design air temperature (0% ~~annual~~ exceedance minimum)	-40°F dry bulb, historical limit excluding peaks <2 hr

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Table 2.4.4-5 Emergency Core Cooling System Inspections, Tests, Analyses, and Acceptance Criteria (Sheet 6 of 10)

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
	7.b.ii The as-built safety injection pump injection test will be performed. Analysis will be performed to convert the test results from the test conditions to the design condition.	7.b.ii A report exists and concludes that each as-built safety injection pump has a pump differential head of no less than 3937 ft and no more 4527 ft at the minimum flow, and injects no less than 1259 gpm and no more than 1462 gpm of RWSP water into the reactor vessel at atmospheric pressure.
	7.b.iii.a Inspections of each as-built accumulator will be conducted.	7.b.iii.a The volume of each as-built accumulator is at least 3,180 ft^3
	7.b.iii.b Inspections of the RWSP will be conducted	7.b.iii.b The volume of the as-built RWSP is at least 81,230 ft^3
	7.b.iv Inspection and analysis of the as-built ECC/CS suction strainers will be conducted.	7.b.iv A report exists and concludes that each of the four as-built ECC/CS suction strainers have the following features: stainless steel materials of construction for corrosion resistance; a minimum strainer surface area ~~of 3510 square feet~~is greater than or equal to 2,730 ft^2; MIC-03-T1-00003 perforated plate with maximum hole diameter of 0.066 inches; remains submerged under design basis accident conditions; achieves head loss consistent with design basis NPSH evaluations
	7.b.v Inspections and analyses of the as-built coatings used in the containment will be conducted.	7.b.v A report exists and concludes that the as-built coatings used in the containment are consistent with the ECC/CS suction strainer debris generation, debris transport and downstream effects evaluations.

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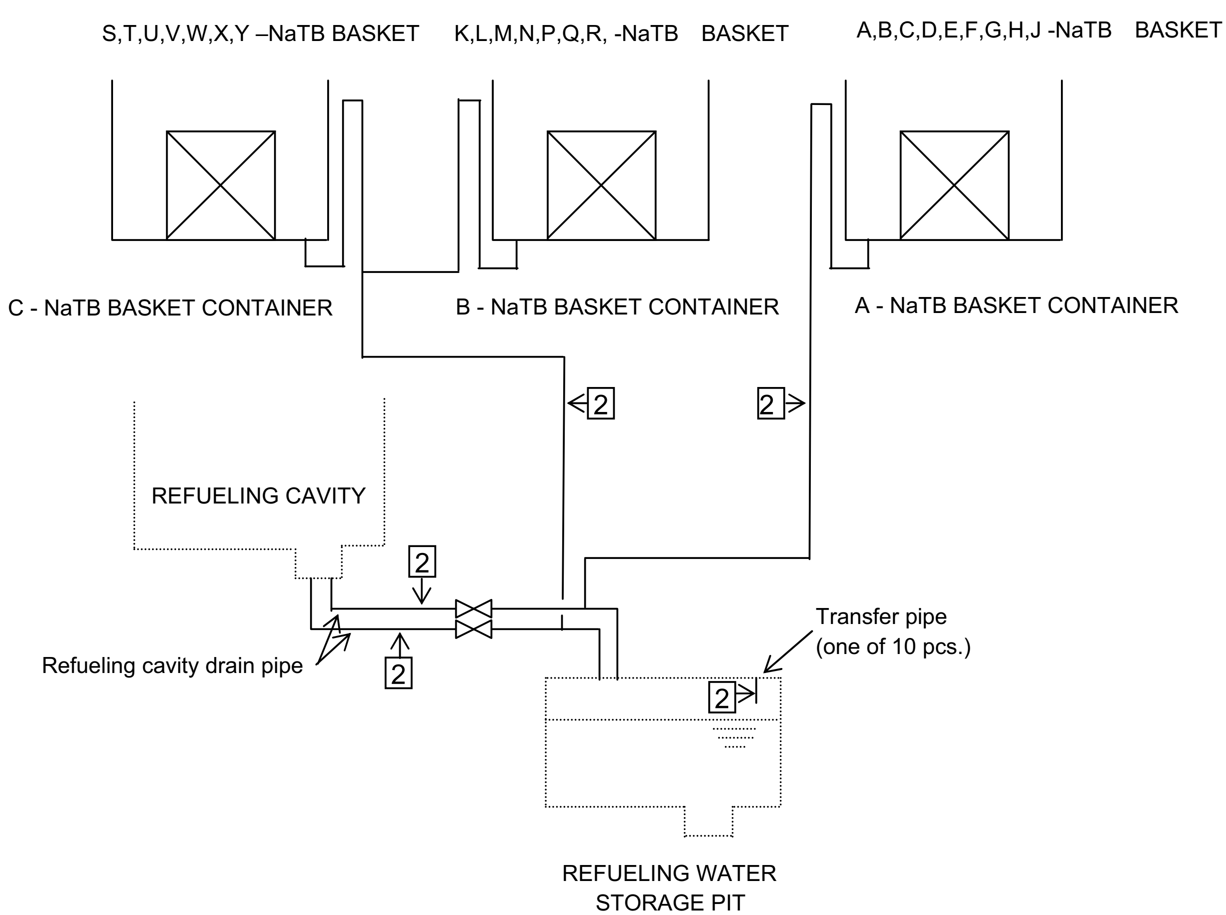

Figure 2.4.4-1 Emergency Core Cooling System (Sheet 4 of 4)

2.5 INSTRUMENTATION AND CONTROLS

2.5.1 Reactor Trip System and Engineered Safety Feature Systems

2.5.1.1 Design Description

The reactor trip (RT) system and the engineered safety feature (ESF) system ~~and the associated field equipment are part~~consist of the protection and safety monitoring system (PSMS) and the associated field instrumentation. The RT system also includes the reactor trip breakers (RTBs). The PSMS includes the reactor protection system (RPS), the engineered safety features actuation system (ESFAS), the safety logic system (SLS) and the safety grade human system interface system (HSIS). The PSMS consists of four safety divisions. MIC-03-T1-0 0002

The purpose of the PSMS is to provide protection against unsafe reactor operation during steady-state and transient power operation by automatically tripping the reactor and actuating necessary engineered safety features. These trip and actuation functions are implemented by the RT system and the ESF system, respectively. The safety grade HSIS includes conventional switches for manual actuation of reactor trip and ESF actuation. Table 2.5.1-1 shows equipment names and classifications of the PSMS and the field equipment for the RT system and the ESF system.

The safety visual display units (VDUs) and the safety VDU processors, which are part of the PSMS, provide monitoring and control for the safety-related plant components and instrumentation, including monitoring and control for the credited manual operator actions. The operational VDUs, which are part of the plant control and monitoring system (PCMS), also provide monitoring and control for the safety-related plant components and instrumentation, including the monitoring and control for the credited manual operator actions and monitoring of automatic ESF actuations.

1. The functional arrangement of the RPS is as described in the Design Description of Subsection 2.5.1 and in Table 2.5.1-2, and as shown in Figures 2.5.1-1 and 2.5.1-2.

2. The functional arrangements of the ESFAS, SLS and HSIS are as described in the Design Description of Subsection 2.5.1 and in Table 2.5.1-3, and as shown in Figures 2.5.1-2 and 2.5.1-3.

3. The functional arrangement of the RTBs is as described in the Design Description of Subsection 2.5.1 and as shown in Figure 2.5.1-4.

4. Conventional PSMS switches in the MCR can be used to provide manual initiation for reactor trip and ESF Manual Actuations identified in Tables 2.5.1-2 and 2.5.1-3.

5. The seismic Category I equipment identified in Table 2.5.1-1 can withstand seismic design basis loads without loss of safety function.

6. The Class 1E equipment identified in Table 2.5.1-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

29.a ESF systems are automatically initiated from signals that originate in the RPS as described in Table 2.5.1-3.

29.b Manual actuation of ESF systems is carried out through a diverse signal path that bypasses the RPS.

30.a Deleted.

30.b Deleted.

31. The RT system and ESF system provide actuation signals within required response time for monitored variables identified in Tables 2.5.1-2 and Table 2.5.1-3. On-line diagnostics do not interrupt plant control. MIC-03-T1-0 0002

2.5.1.2 Inspections, Tests, Analyses, and Acceptance Criteria

Table 2.5.1-6 describes the ITAAC for the RT system and the ESF system.

Table 2.5.1-2 Reactor Trip and Monitored Variables

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Actuation Signal	Monitored Variables	Response Time Requirement
High Source Range Neutron Flux	Neutron Flux	Yes
High Intermediate Range Neutron Flux	Neutron Flux	Yes
High Power Range Neutron Flux (Low Setpoint)	Neutron Flux*1	Yes
High Power Range Neutron Flux (High Setpoint)	Neutron Flux*1	Yes
High Power Range Neutron Flux Positive Rate	Neutron Flux*1	Yes
High Power Range Neutron Flux Negative Rate	Neutron Flux*1	Yes
Over Temperature ΔT	Reactor Coolant Temperature*2	Yes
	Pressurizer Pressure	
	Neutron Flux*1	
Over Power ΔT	Reactor Coolant Temperature*2	Yes
	Neutron Flux*1	
Low Reactor Coolant Flow	Reactor Coolant Flow	Yes
Low Reactor Coolant Pump Speed	Reactor Coolant Pump Speed	Yes
Low Pressurizer Pressure	Pressurizer Pressure	Yes
High Pressurizer Pressure	Pressurizer Pressure	Yes
High Pressurizer Water Level	Pressurizer Water Level	Yes
Low Steam Generator Water Level	Steam Generator Water Level	Yes
High-High Steam Generator Water Level	Steam Generator Water Level	Yes
ECCS Actuation	Refer to ECCS Actuations in Table 2.5.1-3.	Yes
Manual Actuation	Manual Switch Position (Reactor Trip Switch)	No

Notes:
1: Power Range Neutron flux is a spatially dependent variable due to axial variations.
2. Reactor Coolant System hot leg (3 sensors) is spatially dependent.

Table 2.5.1-3 ESF Actuations and Monitored Variables (Sheet 1 of 3)

ESF Function	Actuation Signal	Monitored Variables	Response Time Requirement
ECCS Actuation	Low Pressurizer Pressure	Pressurizer Pressure	Yes
	Low Main Steam Line Pressure	Main Steam Line Pressure	Yes
	High Containment Pressure	Containment Pressure	Yes
	Manual Actuation	Manual Switch Position (ECCS Actuation Switch)	No
Main Steam Line Isolation	High-High Containment Pressure	Containment Pressure	Yes
	Low Main Steam Line Pressure	Main Steam Line Pressure	Yes
	High Main Steam Line Pressure Negative Rate	Main Steam Line Pressure	Yes
	Manual Actuation	Manual Switch Position (Main Steam Line Isolation Switch)	No
Containment Isolation Phase A	ECCS Actuation	ECCS Actuation Signal	Yes
	Manual Actuation	Manual Switch Position (Containment Isolation Switch)	No
Containment Isolation Phase B	High-3 Containment Pressure	Containment Pressure	Yes
	Manual Actuation	Manual Switch Position (Containment Spray Switch)	No
Containment Purge Isolation	ECCS Actuation	ECCS Actuation Signal	Yes
	High Containment Area Radiation	Containment Area Radiation	Yes
	Manual Actuation	Manual Switch Position (Containment Isolation Switch) (Containment Spray Switch)	No
Containment Spray	High-3 Containment Pressure	Containment Pressure	Yes
	Manual Actuation	Manual Switch Position (Containment Spray Switch)	No

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Table 2.5.1-3 ESF Actuations and Monitored ~~Parameters~~ Variables (Sheet 2 of 3) MIC-03-07-00001 MIC-03-T1-00002

ESF Function	Actuation Signal	Monitored Variables	Response Time Requirement
Emergency Feedwater Actuation	ECCS Actuation	ECCS Actuation Signal	Yes
	Low Steam Generator Water Level	Steam Generator Water Level	Yes
	Loss of Offsite Power	Class 1E 6.9kV Bus Voltage	Yes
	Manual Actuation	Manual Switch Position (Emergency Feedwater Actuation Switch)	No
Emergency Feedwater Isolation Loop A (Loop B, C, D) *1	Low Main Steam Line Pressure	Main Steam Line Pressure	Yes
	High Steam Generator Water level	Steam Generator Water Level	Yes
	Manual Actuation	Manual Switch Position (Emergency Feedwater Isolation Switch)	No
Main Control Room Isolation	ECCS Actuation	ECCS Actuation Signal	Yes
	High Main Control Room Outside Air Intake Radiation	Main Control Room Outside Air Intake Gas Radiation	Yes
		Main Control Room Outside Air Intake Iodine Radiation	Yes
		Main Control Room Outside Air Intake Particulate Radiation	Yes
	Manual Actuation	Manual Switch Position (Main Control Room Isolation Switch)	No
Main Feedwater Regulation Valve Closure	Low T_{avg} coincident with RT (P-4)	Reactor Coolant Temperature*2	Yes
		Reactor Trip (RTB Open)	No
Main Feedwater Isolation	High-High Steam Generator Water Level	Steam Generator Water Level	Yes
	ECCS Actuation	ECCS Actuation Signal	Yes
	Manual Actuation	Manual Switch Position (Main Feedwater Isolation Switch)	No

Note1: Loop A isolation is initiated by steam generator water level signal and main steam line pressure signal from loop A. All loops are identical (e.g., loop B isolation is initiated by the signal from loop B).
Note 2: Reactor Coolant System hot leg (3 sensors) is spatially dependent.

Table 2.5.1-3 ESF Actuations and Monitored ~~Parameters~~Variables (Sheet 3 of 3)

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ESF Function	Actuation Signal	Monitored Variables	Response Time Requirement
CVCS Isolation	High Pressurizer Water Level	Pressurizer Water Level	Yes
	Manual Actuation	Manual Switch Position (CVCS Isolation Switch)	No

Table 2.5.1-4 Interlocks Important to Safety

Containment Spray/Residual Heat Removal Pump Hot Leg Isolation Valve Open Permissive Interlock
~~Simultaneous-Open Block Interlock with Residual Heat Removal Discharge Line Containment Isolation Valve and Containment Spray Header Containment Isolation Valve~~
Simultaneous-Open Block Interlock with Containment Spray/Residual Heat Removal Pump Hot Leg Isolation Valve and Containment Spray Header Containment Isolation Valve
Reactor Makeup Water Line Isolation Interlock
Accumulator Discharge Valve Open Interlock
~~Component Cooling Water Supply and Return Header Tie Line Isolation Interlock~~A2(C2) CCW Supply Line Isolation Interlock
RCP Thermal Barrier Heat Exchanger Component Cooling Water Return Line Isolation Interlock
Low-Pressure Letdown Line Isolation Interlock

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Table 2.5.1-6 RT System and ESF System Inspections, Tests, Analyses, and Acceptance Criteria (Sheet ~~9~~10 of ~~9~~10)

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MIC-03-07-00004

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
26. A signal selection algorithm (SSA) is provided in the PCMS for the monitoring variables as listed in Table 2.5.1-5 to ensure the PCMS does not take control action that results in a condition which requires RT or ESF action based on a single instrument channel failure or a single RPS division failure.	26. A test of the as-built PCMS SSA functions will be performed using simulated signals.	26. The as-built PCMS SSA functions to ensure the PCMS does not take control action that results in a condition which requires RT or ESF action based on a single instrument channel failure or a single RPS division failure, for the monitored variables listed in Table 2.5.1-5.
27. Input sensors from each division of the PSMS as identified in Table 2.5.1-2 and Table 2.5.1-3 are compared continuously in the PCMS to allow detection of out-of-tolerance sensors.	27. A test of the as-built PCMS function will be performed utilizing simulated signals.	27. Input sensors as identified in Table 2.5.1-2 and Table 2.5.1-3 from each division of the as-built PSMS that are out-of-tolerance can be detected by the PCMS.
28. Deleted.	28. Deleted.	28. Deleted.
29.a ESF systems are automatically initiated from signals that originate in the RPS as described in Table 2.5.1-3.	29.a A test of the as-built PSMS will be performed.	29.a As-built ESF systems are automatically initiated from signals that originate in the as-built RPS as described in Table 2.5.1-3.
29.b Manual actuation of ESF systems is carried out through a diverse signal path that bypasses the RPS.	29.b A test of the as-built PSMS will be performed.	29.b Manual actuation of the as-built ESF systems is carried out through a diverse signal path that bypasses the as-built RPS.
30.a Deleted.	30.a Deleted.	30.a Deleted.
30.b Deleted.	30.b Deleted.	30.b Deleted.
31. The RT system and ESF system provide actuation signals within required response time for monitored variables identified in Tables 2.5.1-2 and 2.5.1-3. On-line diagnostics do not interrupt plant control.	31.i Type test, tests or a combination of type tests or tests and analyses will be performed on RT system and ESF system to verify that actuation signals occur within allowable design limits for monitored variables identified in Tables 2.5.1-2 and 2.5.1-3.	31.i A report exists and concludes that actuation signal response time for each monitored variables identified in Tables 2.5.1-2 and 2.5.1-3 are within allowable design limit and that on-line diagnostics do not interrupt plant control.
	31.ii Inspection will be performed on the as-built RT system and ESF system equipment associated with monitored variables identified in Tables 2.5.1-2 and 2.5.1-3.	31.ii The as-built RT system and ESF system equipment associated with monitored variables identified in Tables 2.5.1-2 and 2.5.1-3 are qualified by type tests, tests, or a combination of type tests or tests and analyses.

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2.5.6 Data Communication Systems

2.5.6.1 Design Description

The data communication systems (DCS) consist of:

- Plant-wide unit bus
- Safety bus (for each PSMS division)
- Data links for point-to-point communication
- Input/Output (I/O) bus
- Maintenance network for each PSMS division and the PCMS

The DCS is a distributed and highly interconnected system, which has communication independence to prevent electrical and communication processing faults in one safety division (or the non-safety PCMS) from adversely affecting the performance of safety functions in other divisions. Qualified fiber-optic isolators are used to prevent electrical faults from transferring between divisions, and between safety and non-safety systems. Communication faults are prevented through data integrity verification.

A non-redundant non-safety multi-drop maintenance network is provided separately within each PSMS division and within the PCMS. The maintenance network is used to transmit signals between the engineering tools and the PSMS or PCMS system management module of each controller.

1. The functional arrangement of the DCS is as described in the Design Description of Subsection 2.5.6.1 and as shown in Figure 2.5.6-1.

2. ~~The DCS provides throughput to meet the response time requirements for all safety functions under the full range of applicable conditions enumerated in the design basis. On-line diagnostics do not interrupt plant control.~~Deleted. MIC-03-T1-00002

3. The DCS provides external networks with a communications link via the unit management computer (UMC) which is connected to the unit bus. The UMC provides a firewalled interface, which allows only outbound communication from the unit bus to external networks. There are no other connections from external sources to the DCS.

4. The safety-related portions of the DCS are located in a facility area that provides protection from natural phenomena hazards such as tornadoes, and accident related hazards such as missiles, pipe breaks and flooding.

5. The PSMS application setpoints, constants and application software are changeable only by removing the CPU module that contains the memory devices from the controller and placing it in a dedicated re-programming chassis.

Table 2.5.6-1 Data Communication Systems Inspections, Tests, Analyses, and Acceptance Criteria (Sheet 1 of 2)

Design Commitment	Inspections, Tests, Analyses	Acceptance Criteria
1. The functional arrangement of the DCS is as described in the Design Description of Subsection 2.5.6.1 and as shown in Figure 2.5.6-1.	1. Inspection of the as-built DCS will be performed.	1. The as-built DCS conforms to the functional arrangement as described in the Design Description of Subsection 2.5.6.1 and as shown in Figure 2.5.6-1.
2. ~~The DCS provides throughput to meet the response time requirements for all safety functions under the full range of applicable conditions enumerated in the design basis. On-line diagnostics do not interrupt plant control.~~Deleted.	2. ~~Type tests, analyses or a combination of type tests and analyses of the DCS will be performed.~~Deleted.	2. ~~A report exists and concludes that the DCS provides throughput to meet the response time requirements for all safety functions under the full range of applicable conditions enumerated in the design basis, and that on-line diagnostics do not interrupt plant control.~~Deleted. MIC-03-T1-00002
3. The DCS provides external networks with a communications link via the unit management computer (UMC) which is connected to the unit bus. The UMC provides a firewalled interface, which allows only outbound communication from the unit bus to external networks. There are no other connections from external sources to the DCS.	3. Inspection and analyses of the as-built DCS will be performed.	3 A report exists and concludes that: (1) the as-built DCS provides external networks with a communications link via the as-built unit management computer (UMC), which is connected to the as-built unit bus; (2) the as-built UMC provides a firewalled interface, which allows only outbound communication from the as-built unit bus to external networks; and (3) there are no other connections from external sources to the as-built DCS.
4. The safety-related portions of the DCS are located in a facility area that provides protection from natural phenomena hazards such as tornadoes, and accident related hazards such as missiles, pipe breaks and flooding.	4. An inspection of the as-built equipment location will be performed.	4. The safety- related portions of the as-built DCS are located in an as-built facility area that provides protection from natural phenomena hazards such as tornadoes, and accident related hazards such as missiles, pipe breaks and flooding.

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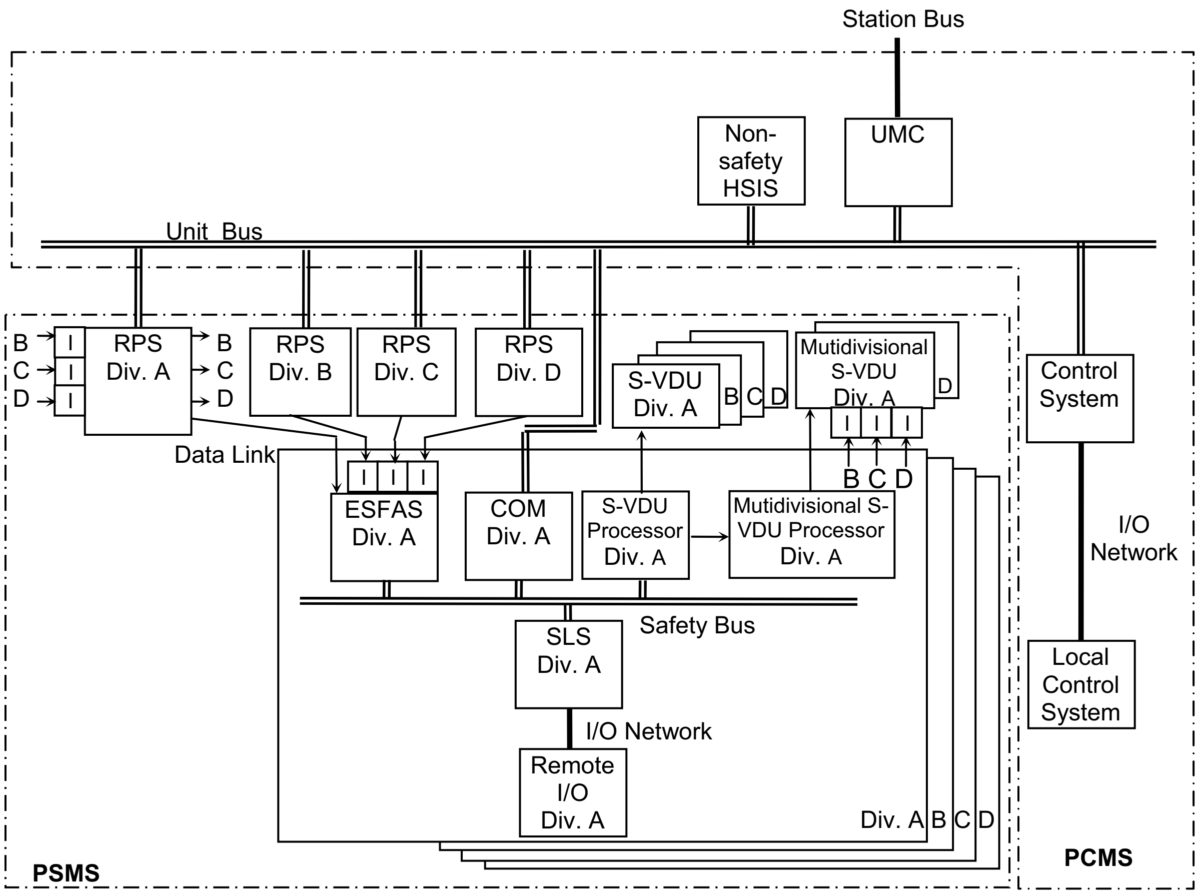

Figure 2.5.6-1 DCS Configuration

Tier 2

Chapter 1

Chapter 1 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_10.3.6.2	Table 1.9.1-1 (Sheet 4 of 20)	1.9-7	MHI Letter No. UAP-HF-09142 Date 4/1/2009	Revised the item regarding Regulatory Guide Number 1.50 in Table 1.9.1-1 to refer Subsection 10.3.6.2.	-
DCD_10.3.6-4	Table 1.9.1-1 (Sheet 5 of 20)	1.9-6	MHI Letter No. UAP-HF-09142 Date 4/1/2009	Revised the item regarding Regulatory Guide Number 1.37 in Table 1.9.1-1 to refer Subsection 10.3.6.2.	-
DCD_03.09.05-32	1.5.4	1.5-3	Response to RAI No. 663 MHI Letter No. UAP-HF-11012 Date 01/21/2011	Revised Reference 1.5-3 to identify the Proprietary version and revision number.	-
DCD_09.05.08-28	Figures 1.2-7 1.2-13 1.2-27 1.2-28	1.2-57 1.2-63 1.2-77 1.2-78	Response to RAI No. 704 MHI Letter No. UAP-HF-11207 Date 07/04/2011	Revised Figures 1.2-7, 1.2-13, 1.2-27 and 1.2-28 to reasons as discussed in RAI Response.	-
MIC-03-01-00002	1.6	1.6-1	Request from Response to MHI Letter No. UAP-HF-11425 Date NRC, 12/09/2011	Added the description regarding the list of Technical Report.	0

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
MIC-03-01-00002	Table 1.6-1	1.6-2	Request from NRC, Response to MHI Letter No. UAP-HF-11425 Date 12/09/2011	Changed the title of Table 1.6-1 to identify as Topical Report List.	0
MIC-03-01-00002	Table 1.6-2 (new table)	1.6-2 [1.6-3 through 1.6-7]	Request from NRC, Response to MHI Letter No. UAP-HF-11425 Date 12/09/2011	Added the list of Technical Report.	0
MIC-03-01-00001	Table 1.8-2 (sheet 18 of 34)	1.8-24	Correction for track change	Removed track changes of "~~*The COL Applicant is to provide values to the component Table 9.2.4-1 based on system and component descriptions from Section 9.2.4.2.1 and 9.2.4.2.2 respectively.*~~*Deleted.*" (Contents are not change)	0
DCD_07.01-35	New Subsection 1.4.2.4	1.4-2	Response to RAI No. 733 MHI Letter No. UAP-HF-11261 Date 8/12/2011	Added a new Subsection 1.4.2.4 for RAI response.	-
DCD_06.02.05-45	Table 1.8-2 (sheet 34 of 34)	1.8-40	Response to RAI No. 803 MHI Letter No. UAP-HF-11304	Created new COL action item to confirm SA equipment	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			Date 9/9/2011	survivability	
DCD_03.03.02-5	Table 1.8-2 (Sheet 2)	1.8-8	Response to RAI No. 817 MHI Letter No. UAP-HF-11326 Date 9/26/2011	COL applicant to verify that wake effects from site location features do not invalidate plant wind load design.	-
DCD_10.04.06-17	Table 1.8-2 (Sheet 22)	1.8-28	Amended Response to RAI No. 807 MHI Letter No. UAP-HF-11328 Date 9/29/2011	Added a new COL item as COL 10.3(4) in Table 1.8-2.	-
DCD_09.04.02-7	Table 1.9.2-9 (Sheets 20 and 21)	1.9-209 1.9-210	Response to RAI No. 824 MHI Letter No. UAP-HF-11344 Date 10/06/2011	Revise the status for the criterion 3 of SRP 9.4.2 as follows; Replaced “Criteria 3 is N/A. (Not air. cleanup system)” with “Criterion 3: Fuel handling area is served by auxiliary building HVAC system. Auxiliary building HVAC system interfaces to the air cleanup system of containment low volume purge system.” Revise the status for the criterion 3 of	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				SRP 9.4.3 as follows; Replaced "Criterion 3: Air clean up function is provided for TSC HVAC system only." with "Criterion 3: Air clean up function is provided for TSC HVAC system and Auxiliary building HVAC system. Auxiliary building HVAC system interfaces to the air cleanup system of containment low volume purge system.	
DCD_03.06.01-9	Table 1.8-2 (Sheet 4)	1.8-10	Response to RAI No. 795 MHI Letter No. UAP-HF-11362 Date 10/26/2011	It explicitly state to update the as-design pipe hazards analysis report to include the impact of all site specific high and moderate piping systems.	-
DCD_11.04-19	Table 1.8-2 (Sheet 23)	1.8-29	Response to Amended RAI No. 534 MHI Letter No. UAP-HF-11320 Date 09/21/2011	Editorial correction Replace Ref.11.2-24 with ref.11.2-25 on COL 11.2(8).	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_06.02.02-66	Table 1.8-2 (sheet 15)	1.8-20	Response to RAI No. 836 MHI Letter No. UAP-HF-11383 Date 11/11/2011	Added “blowdown water” because that will contact with aluminum in post-LOCA condition.	-
MIC-03-01-00002 S1	Table 1.6-1	1.6-2	Request from NRC, Response to MHI Letter No. UAP-HF-11425 Date 12/09/2011	Appropriate sections for each report are reviewed and identified	-
MIC-03-01-00002 S1	Table 1.6-2 (new table)	1.6-2 [1.6-3 through 1.6-7]	Request from NRC, Response to MHI Letter No. UAP-HF-11425 Date 12/09/2011	Appropriate sections for each report are reviewed and identified	-
DCD_08.03.01-38	1.2.1.5.6	1.2-45	Response to Amended RAI No. 394 MHI Letter No. UAP-HF-11404 Date 11/22/2011	Replaced “with the Class 1E GTGs, different rating GTGs with diverse starting system are provided as AAC sources.” with “, a different manufacturer is adopted for the AAC GTGs from the Class 1E GTGs, and the AAC GTGs are provided with diverse starting	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				mechanisms as compared to the Class 1E GTGs."	
DCD_10.04.08-11	Table 1.9.2-10 (sheet 15)	1.9-235	Response to RAI No. 862 MHI Letter No. UAP-HF-11430 Date 12/12/2011	Corrected status of the SGBDS conformance with SRP appropriately.	-
MIC-03-01-00006	Table 1.6-2	1.6-2	GSI-191 Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Added technical reports associated with GSI-191 as IBR.	1
DCD_06.02.02-35	Table 1.8-2 (Sheet 14 of 36)	1.8-20	GSI-191, Response to RAI No. 354-2585 MHI Letter No. UAP-HF-09365 Date 07/07/2009	COL6.2 (5) is updated to contain design basis limits of latent debris and miscellaneous debris in containment for RAI response.	1
MIC-03-01-00007	Table 1.8-2 (Sheet 14 of 36) [Sheet 15 of 36]	1.8-20 [1.8-21]	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	COL6.2(6) is added to control the use of insulation in containment for consistency with those quantities used for safety evaluation.	1
MIC-03-01-00008	Table 1.9.1-1 (Sheet 8 of	1.9-10	GSI-191, Tracking	Reference subsection should	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	20)		Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	be correctly read as “6.2.2.2.6 and 6.2.2.3”.	
MIC-03-01-00009	Table 1.9.3-1 (Sheet 24 to 29 of 29)	1.9-407 through 1.9-412	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Removed redundant description. Instead, add summary of conformance with GSI-191 as well as RG 1.82R3.	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is “-“, the change was not made in a T/R.

Table 1.6-2 Material Referenced as Technical Reports (Sheet 2 of 5) MIC-03-01-0 0002 MIC-03-01-0 0002 S1

Report Number[1]	Title	DCD Section Number[2]
MUAP-07029-P MUAP-07029-NP	Probabilistic Evaluation of Turbine Valve Test Frequency, Revision 2, January 2011.	3.5.1, 10.2.3
MUAP-07030	US-APWR Probabilistic Risk Assessment, Revision 3, June 2011.	6.2.5, 7.1.3, 7.5.1, 17.4.7, 18.6.3, 19.0, 19.1.4, 19.2.3 16 (B3.3.1), 16 (B3.3.2), 16 (B3.3.5)
MUAP-07031-P MUAP-07031-NP	Subcompartment Analysis for US-APWR Design Confirmation, Revision 1, October 2009.	6.2.1
MUAP-07032-P MUAP-07032-NP	Criticality Analysis for US-APWR New and Spent Fuel Storage Racks, Revision 1, December, 2009.	9.1.1
MUAP-07033-P MUAP-07033-NP	Mechanical Analysis for US-APWR New and Spent Fuel Racks, Revision 0, March, 2009.	9.1.2
MUAP-07035	Structural Analysis for US-APWR Reactor Coolant Pump Motor Flywheel, Revision 0, December 2007.	5.4.1
MUAP-07036	Justification for Deviations Between NUREG-1431 Revision 3.1 and US-APWR Technical Specifications, Revision 2, November 2009.	16
MUAP-08001-P MUAP-08001-NP	US-APWR Sump Strainer Performance, Revision 5, August 2011	5.2.3, 6.2.2, 6.3.2 MIC-03-01-0 0006
MUAP-08002	Enhanced Information for PS/B Design, Revision 1, January 2011.	3.7.2
MUAP-08007-P MUAP-08007-NP	Evaluation Results of US-APWR Fuel System Structural Response to Seismic and LOCA Loads, Revision 2, December 2010.	4.2.3
MUAP-08009	US-APWR Test Program Description, Revision 1, October 2009.	14.2.1, 14.2.2, 14.2.3, 14.2.4, 14.2.5, 14.2.6, 14.2.13, 14.3.4
MUAP-08011-P MUAP-08011-NP	US-APWR Sump Debris Chemical Effects Test Results, Revision 0, November 2008.	6.2.2 MIC-03-01-0 0006
MUAP-08012-P MUAP-08012-NP	US-APWR Sump Strainer Stress Report, Revision 1, March 2011.	3.9 MIC-03-01-0 0006
MUAP-08013-P MUAP-08013-NP	US-APWR Sump Strainer Downstream Effects, Revision 2, August 2011.	6.2.2, 6.3.2 MIC-03-01-0 0006
MUAP-08014-P MUAP-08014-NP	Human System Interface Verification and Validation (Phase 1a), Revision 1, May 2011.	1.5.2, 18.1.1, 18.1.5, 18.2.3
MUAP-08015	US-APWR Equipment Qualification Program, Revision 1, November 2009.	3.11, 3.11.4, 3.11.5, 3.11.6, 3.11.7, 3D.1.7, 7.1.3, 7.5.1
MUAP-09001-P MUAP-09001-NP	Summary of Design Transient, Revision 0, January 2009.	3.9.1
MUAP-09002-P MUAP-09002-NP	Summary of Seismic and Accident Load Conditions for Primary Components and Piping, Revision 2, December 2010.	3.7.2, 3.8.5, 3.9.2, 3.9.3
MUAP-09004-P MUAP-09004-NP	Summary of Stress Analysis Results for Core Support Structures, Revision 1, January 2011.	3.9.3, 3.9.4

Table 1.8-2 Compilation of All Combined License Applicant Items for Chapters 1-19 (Sheet 14 of 36)

COL ITEM NO.	COL ITEM
COL 5.3(3)	*Surveillance Capsule Orientation and Lead Factors; The COL Applicant addresses the orientation and resulting lead factors for the surveillance capsules of a particular US-APWR plant.*
COL 5.3(4)	*Reactor Vessel Material Properties Verification; The COL Applicant verifies the USE and RT_{NDT} at EOL, including a PTS evaluation based on actual material property requirements of the reactor vessel material and the projected neutron fluence for the design-life objective of 60 years.*
COL 5.3(5)	*Preservice and Inservice Inspection; The COL Applicant provides the information for preservice and inservice inspection described in Subsection 5.2.4.*
COL 5.4(1)	*Deleted*
COL 5.4(2)	*Deleted*
COL 5.4(3)	*Deleted*
COL 5.4(4)	*Deleted*
COL 5.4(5)	*Deleted*
COL 5.4(6)	*Deleted*
COL 5.4(7)	*Deleted*
COL 6.1(1)	*Deleted*
COL 6.1(2)	*Deleted*
COL 6.1(3)	*Deleted*
COL 6.1(4)	*Deleted*
COL 6.1(5)	*Deleted*
COL 6.1(6)	*Deleted*
COL 6.1(7)	*The COL Applicant is responsible for identifying the implementation milestones for the coatings program.*
COL 6.2(1)	*Deleted*
COL 6.2(2)	*Deleted*
COL 6.2(3)	*Deleted*
COL 6.2(4)	*Deleted*
COL 6.2(5)	*Preparation of a cleanliness, housekeeping and foreign materials exclusion program is the responsibility of the COL Applicant. This program will be established to limit 200lbs of latent debris, and to limit the allocated 200ft^2 of miscellaneous debris per sump.~~addresses other debris sources such as latent debris inside containment. This program minimizes foreign materials in the containment.~~*

DCD_06.02.02-35

Table 1.8-2 Compilation of All Combined License Applicant Items for Chapters 1-19 (Sheet 15 of 36)

COL ITEM NO.	COL ITEM
COL 6.2(6)	~~*Deleted*~~*Preparation of administrative procedures is the responsibility of the COL Applicant. The procedures will ensure that RMI and fiber insulation debris within ZOIs will be consistent with the design basis debris specified in Table 6.2.2-4, and will ensure that the aluminum in containment exposed to containment spray water is limited to equal or less than 810 ft^2.*
COL 6.2(7)	*Deleted*
COL 6.2(8)	*The COL Applicant is responsible for identifying the implementation milestone for the containment leakage rate testing program described under 10 CFR 50, Appendix J.*
COL 6.2(9)	*Deleted*
COL 6.2(10)	*Deleted*
COL 6.3(1)	*Deleted*
COL 6.3(2)	*Deleted*
COL 6.3(3)	*Deleted*
COL 6.3(4)	*Deleted*
COL 6.3(5)	*Deleted*
COL 6.3(6)	*Deleted*
COL 6.4(1)	*The COL Applicant is responsible to provide details of specific toxic chemicals of mobile and stationary sources within the requirements of RG 1.78 (Ref 6.4-4) and evaluate the control room habitability based on the recommendation of RG 1.78 (Ref 6.4-4).*
COL 6.4(2)	*The COL Applicant is responsible to discuss the automatic actions and manual actions for the MCR HVAC system in the event of postulated toxic gas release.*
COL 6.4(3)	*Deleted*
COL 6.4(4)	*Deleted*
COL 6.4(5)	*The number, locations, sensitivity, range, type, and design of the toxic gas detectors are COL items. Depending on proximity to nearby industrial, transportation, and military facilities, and the nature of the activities in the surrounding area, as well as specific chemicals onsite, the COL Applicant is responsible to specify the toxic gas detection requirements necessary to protect the CRE.*
COL 6.5(1)	*Deleted*
COL 6.5(2)	*Deleted*
COL 6.5(3)	*Deleted*
COL 6.5(4)	*Deleted*

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Table 1.9.1-1 US-APWR Conformance with Division 1 Regulatory Guides (Sheet 8 of 20)

Reg Guide Number	Title	Status	Corresponding Chapter/Section/ Subsection
1.78	Evaluating the Habitability of a Nuclear Power Plant Control Room During a Postulated Hazardous Chemical Release (Rev. 1, December 2001)	Conformance with exceptions. Full conformance by COL Applicant with site-specific consequence data.	6.4.4, 9.4.1
1.79	Preoperational Testing of Emergency Core Cooling Systems for Pressurized Water Reactors (Rev. 1, September 1975)	Conformance with no exceptions identified.	14.2.7
1.81	Shared Emergency and Shutdown Electric Systems for Multi-Unit Nuclear Power Plants (Rev. 1, January 1975)	Not applicable. DCD describes a single reference plant design; RG applies to a site-specific multi-unit situation.	N/A
1.82	Water Sources for Long-Term Recirculation Cooling Following a Loss-of-Coolant Accident (Rev. 3, November 2003)	Conformance with exceptions. Full conformance by COL Applicant with site-specific conditions.	~~6.2.2.1~~6.2.2.2.6, 6.2.2.3
1.83	Inservice Inspection of Pressurized Water Reactor Steam Generator Tubes (Rev. 1, July 1975)	Withdrawn..	N/A
1.84	Design, Fabrication, and Materials Code Case Acceptability, ASME Section III (Rev. 33, August 2005)	Conformance with no exceptions identified.	3.12.2.2
1.86	Termination of Operating Licenses for Nuclear Reactors (Rev. 0, June 1974)	Not applicable. RG applies to a later phase site-specific operational program.	N/A
1.87	Guidance for Construction of Class 1 Components in Elevated-Temperature Reactors (Supplement to ASME Section III Code Cases 1592, 1593, 1594, 1595, and 1596) (Rev. 0, June 1975)	Not applicable.	N/A
1.89	Environmental Qualification of Certain Electric Equipment Important to Safety for Nuclear Power Plants (Rev. 1, June 1984)	Conformance with no exceptions identified.	3.11, 7.1.3, 8.1.5.3
1.90	Inservice Inspection of Prestressed Concrete Containment Structures with Grouted Tendons (Rev. 1, August 1977)	Not applicable. US-APWR is not among the designs covered by this RG. US-APWR PCCV tendon type is Ungrouted.	N/A

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Table 1.9.3-1 Conformance with Generic Issues (Sheet 24 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH	Results of research on BWR ECCS suction strainer blockage identified new phenomena and failure modes that were not considered in the resolution of Issue A-43. In addition, operating experience identified new contributors to debris and possible blockage of PWR sumps, such as degraded or failed containment paint coatings. Thus, this issue was identified by NRR and called for an expanded research effort to address these new safety concerns. A study was deemed to be required to determine whether PWR ECCS sumps are adequate to ensure proper ECCS operation. Based on the existence of an action plan to address the safety concerns, the issue was considered nearly-resolved in September 1996. It was later given a HIGH priority ranking in SECY-98-166.	~~US-APWR is following up to date methodology for sump design and performance, as summarized below.~~ • ~~***Sump Description*** Each quadrant of the RWSP contains paired suction piping and the suction pit arrangement for the CSS/RHR pumps and SI pumps. The open end of each suction pipe is equipped with a debris strainer that satisfies NEI 04-07 PWR Sump Performance Evaluation Methodology and conforms to RG 1.82, "Water Sources for Long-Term Recirculation Cooling Following a Loss-of-Coolant Accident". The suction strainers are designed to Seismic Category I and Quality Class B standards. The debris strainers are a passive disc type design with a large "footprint" that is sufficient to preclude debris clogging. The debris strainers are made of stainless steel and could use perforated plates in a layered disc design to limit the maximum "pass through" debris size to accommodate with downstream design.~~ The following assessments were implemented to address GSI-191 issues. The strainer performance was evaluated in accordance with Regulatory Guide 1.82 Revision 3. • Break selection • Debris source term • Debris generation • Debris characteristics • Debris transport • Debris head loss • NPSH and air injection • Coating evaluation • Chemical effects • Upstream effects • Downstream effects • Strainer structural analysis	~~3.8.4.1 (robust Cat I design & construction requirements),~~ 6.2.2.2.5 ~~(refueling water storage pit),~~ 6.2.2.2.6, 6.2.3 ~~and table 6.2.2-1 (ECCS/CS strainers and conformance with RG 1.8.2), Chapter 16 and related Tech Spec document (LCOs relevant to ensuring sump availability and performance)~~

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Table 1.9.3-1 Conformance with Generic Issues (Sheet 25 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH (continued)		~~***Detailed conformance with RG 1.8.2*** DCD Table 6.2-1 presents a comparison of the RWSP recirculation intake debris strainer design to the guidance of RG 1.82., addressing the topics of:~~ • ~~General materials and geometry~~ • ~~Minimizing Debris~~ • ~~Instrumentation~~ • ~~In-Service inspection~~ • ~~Evaluation of Alternative Water Sources~~ • ~~Evaluation of Long Term Recirculation Capability~~ • ~~Debris Sources and Generation~~ • ~~Debris Transport~~ • ~~Debris Accumulation and Head Loss~~ ~~Some highlights from the US-APWR specific response to the RG 1.82 requirements:~~ • ~~Four separate, independent and redundant 50% capacity trains each of CSS and SI are provided. Each quadrant of the RWSP contains paired CSS and SI suction pipes and each pair of CSS and SI suction pipes ends in a suction sump, with each suction sump protected by an associated suction strainer. The RWSP is the common suction source to the ECCS and CSS and contains approximately 607,500 gallons of 4500 ppm boric acid at pH 4.2. Crystalline NaTB is added to raise pH to at least 7 for iodine removal and long term LOCA cooling and recovery. LOCA spillage and spray return flow paths to RWSP promote full mixing.~~	

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Table 1.9.3-1 Conformance with Generic Issues (Sheet 26 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH (continued)		• ~~Containment drains (transfer pipes) into RWSP are protected from large debris by vertical debris bars capped by a ceiling plate. The sump openings (suction strainers) are located at approx. elevation 3' 7" of containment, with CSS and SI suction at approx. 1' 5". Disk type suction strainer bases are mounted above the RWSP floor.~~ • ~~Suction strainers are to be base mounted above level RWSP floor. Design analysis inputs for debris transport are conservative.~~ • ~~The transfer pipe openings are equipped with vertical debris bars capped by a ceiling plate. The transfer pipes are located in areas of containment where drains will not directly impinge on them.~~ • ~~Vertical debris bars and ceiling plate protecting transfer pipe openings are of robust design and provide adequate protection from missiles and other large debris. Suction strainers are designed to Seismic Category I and Quality Class B standards. Design loads are properly combined and differential pressure caused by potential debris clogging is taken into account as part of mechanical analysis.~~ • ~~Corrosion resistant (stainless steel) material is used for suction strainers and all inner surfaces of the RWSP.~~ • ~~RWSP hatches are provided and suction strainers are designed for inspections.~~ • ~~Strainers are sized appropriately to withstand debris. Because the RWSP has a large floor area, strainers are free from space restrictions and associated debris blockage.~~ • ~~The debris strainers are to be made of stainless steel and will use perforated plates in a layered disc design to limit the maximum "pass through" debris size to accommodate with downstream design.~~	

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Table 1.9.3-1 Conformance with Generic Issues (Sheet 27 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH (continued)		• ~~RWSP suction strainers are submerged under a minimum of approximately 4 ft of water during a LOCA. The RWSP recirculation supply is sufficient to preclude adverse hydraulic effects such as vortex formation and high suction head loss. A low approach velocity at the strainer surface also mitigates the risk of vortexing.~~ • ~~The US-APWR design of ESF structures, systems or components does not include a CSS or SIS suction flow path that bypasses the RWSP suction strainers.~~ • ~~For purposes of minimizing debris, cleanliness, housekeeping and FMEA (foreign material exclusion areas) are administrative controls to be developed by the COL Applicant referencing the certified US-APWR design for construction and operation. Particulate (e.g., calcium silicate-based) insulation is excluded from containment by design.~~ • ~~Information on debris produced by chemical reaction between ECCS water sources and containment materials (chemical effects) currently is being developed. Principle measures taken by the US-APWR design to preclude adverse chemical effects include use of buffering agent NaTB, and excluding particulate-producing material (e.g., calcium silicate-based insulation) from containment.~~ • ~~CS and SI pump operating information is available in the control room to assist in anomalous NPSH evaluation, including flow, suction and discharge pressure, and pump motor current.~~ • ~~In-Service Inspections of the sumps and strainers are the responsibility of any licensee who references the US-APWR certified design for construction and operation.~~	

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Table 1.9.3-1 Conformance with Generic Issues (Sheet 28 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH (continued)		• ~~Calculated cooling performance (10 CFR 50.46(a)(1)(i)) of the US-APWR ECCS and CSS, including Criteria 5, long-term cooling, are addressed in DCD Chapter 15, Transient and Accident Analyses.~~ • ~~Performance of long term recirculation is evaluated by adopting NEI 04-07 methodology.~~ • ~~The break properties (e.g., sizes, locations) used in the NEI 04-07 methodology are considered for debris generation, and multiple potential debris sources, types and characteristics are considered.~~ • ~~US-APWR analysis conservatively assumes 100% of LOCA-related debris produced reaches the RWSP. Debris quantity calculations consider appropriate transport modes and mechanisms for LOCA phases and conditions, and are consistent with NEI 04-07 guidance and recommendations.~~ ~~RWSP transport and suction strainer performance computations consider appropriate bulk flow velocities and other LOCA-related hydrodynamic phenomena and forces.~~ **~~Technical Specification LCOs relevant to sump availability and performance~~** • ~~LCO 3.5.2 and 3.6.6 – Require operability of containment spray system, including containment sumps and screens as part of the flow path, and correct positioning of containment spray isolation valves.~~ • ~~LCO 3.5.4 – Refueling Water Storage Pit – Ensures sufficient water volume exists in the containment sump to support continued operation of the SI and CS/RHR, and that the sump pH is maintained in an acceptable range.~~	

MIC-03-01-00009

Table 1.9.3-1 Conformance with Generic Issues (Sheet 29 of 29)

Issue Number and Title	Summary	Status/Discussion	Addressed in DCD Chapter/ Sec.
New Generic Issue #191 Assessment of Debris Accumulation on PWR Sump Performance NRC priority: HIGH (continued)		• ~~LCO 5.0 – Administrative Controls – 5.5.8, Inservice Testing Program, requires periodic surveillance of safety equipment to ensure functionality, which will include the containment sumps and screens.~~ ~~Conclusions: The US-APWR ECCS will be designed in accordance with Regulatory Guide 1.82, revision 3. Four redundant strainer systems will be installed within the RWSP, which has a broad footprint to obtain sufficient surface area. Particulate insulations such as calcium silicate are excluded from the US-APWR containment, to reduce potential sources of debris that would significantly increase head loss through the sumps. Coatings debris is estimated by the NEI 04-07 methodology, and 200 pounds of latent debris is assumed to reach each strainer location. NaTB is selected as the agent for pH control in the recirculation water inside containment, to mitigate the chemical effect that might be caused during long term cooling. The US-APWR design selects disk type strainer systems that are currently available, avoiding the application of conventional flat-screen strainer design.~~	
New Generic Issue #193 BWR ECCS Suction Concerns NRC priority: CONTINUE	Does not apply to US-APWR.	Not applicable to US-APWR design certification. (Applicable only to boiling water reactors (BWRs))	NA

MIC-03-01-00009

Tier 2

Chapter 2

Chapter 2 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_3.7.1-17	2.0	2.0-1	Response to RAI No. 790 MHI Letter No. UAP-HF-11111 Date 04/19/2011	Deleted the sentence “These parameters bound an estimated 75% to 80% of the United States (US) landmass, including all sites under current consideration.”	-
DCD_02-2	2.0	2.0-1	Response to RAI No. 819 MHI Letter No. UAP-HF-11351 Date 10/11/2011	Revised first paragraph to clarify that site characteristics are actual physical, environmental and demographic features of a site, while site parameters are postulated physical, environmental and demographic features of an assumed site. Replaced “specific site parameters” with “specific key site parameters” in last sentence of third paragraph.	-
MIC-03-02-00002	Table 2.0-1 (Sheet 1 of 6)	2.0-2	Correcting inappropriate naming for a	Delete “annual” from the descriptions of Ambient design air	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			parameter	temperature	

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is "-", the change was not made in a T/R.

Table 2.0-1 Key Site Parameters (Sheet 1 of 6)

Meteorology	
Parameter Description	**Parameter Value**
Normal winter precipitation roof load (11)	50 lb/ft^2
Extreme winter precipitation roof load(12)	75 lb/ft^2
48-hr probable maximum winter precipitation (PMWP)	36 in.
Tornado maximum wind speed	230 mph
	184 mph maximum rotational
	46 mph maximum translational
Radius of maximum rotational speed	150 ft
Tornado maximum pressure drop	1.2 psi
Rate of Pressure drop	0.5 psi/s
Tornado-generated missile spectrum and associated velocities	15 ft long schedule 40 steel pipe moving horizontally at 135 ft/s(1)
	4,000 lb automobile moving horizontally at 135 ft/s(1)
	1 in diameter steel sphere moving horizontally at 26 ft/s(1)
Extreme wind speed (other than in tornado)	155 mph for 3-second gusts at 33 ft above ground level based on 100-year return period, with importance factor of 1.15 for seismic category I and II structures
Ambient design air temperature (1% annual exceedance maximum)	100°F dry bulb, 77°F coincident wet bulb, 81°F non-coincident wet bulb
Ambient design air temperature (0% ~~annual~~ exceedance maximum)	115°F dry bulb, 80°F coincident wet bulb, 86°F non-coincident wet bulb, historical limit excluding peaks <2 hr
Ambient design air temperature (1% annual exceedance minimum)	-10°F dry bulb
Ambient design air temperature (0% ~~annual~~ exceedance minimum)	-40°F dry bulb, historical limit excluding peaks <2 hr
Atmospheric dispersion factors (χ/Q values) for onsite locations:	
Exclusion area boundary (EAB) 0-2 hrs	5.0×10^{-4} s/m^3
EAB annual average	1.6×10^{-5} s/m^3
Atmospheric dispersion factors (χ/Q values) for offsite locations:	

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Tier 2

Chapter 3

Chapter 3 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_03.08.01-24	3.8.5.4.3	3.8-77	Response to RAI No. 661 MHI Letter No. UAP-HF-10357 Date 12/28/2010	Deleted 2nd sentence: ”To increase computational efficiency, the subgrade part of the FE model is condensed into a super-element.” Added last sentence: “To increase computational efficiency, the subgrade part of the FE model is condensed into a super-element. A detailed description of the analysis method is presented in Technical Report REF-13-05-160-005 (Reference 3.7-49).”	-
DCD_03.09.05-30	3.9.5.1.1 3.9.10	3.9-70 3.9-94	Response to RAI No. 663 MHI Letter No. UAP-HF-11012 Date 01/21/2011	Added the 9th paragraph to identify the upper core plate hydraulic design in comparison with the current 4 loop design.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_03.09.05-32	3.9.5.3.2	3.9-76	Response to RAI No. 663 MHI Letter No. UAP-HF-11012 Date 01/21/2011	Added description about the design criteria of the mal-distribution of the core inlet flow.	-
DCD_03.09.05-33	3.9.5.2.2 Table 3.9-15(new table)	3.9-74 3.9-232	Response to RAI No. 663 MHI Letter No. UAP-HF-11012 Date 01/21/2011	Added Table 3.9-15 to identify the design loads and stress limits for the secondary core support structures.	-
DCD_03.05.03-9	3.5.1.4 3.5.3.1.1	3.5-11 3.5-13	Response to RAI No. 686 MHI Letter No. UAP-HF-11052 Date 02/28/2011	Regarding 2nd sentence in 1st item of 2nd paragraph in Subsection 3.5.1.4, replaced “This missile is considered to potentially impact at all plant elevations up to 30 ft above grade for all grades within 0.5 mile of the plant structures.” with “To accommodate site-specific conditions where grades within 0.5 mile of plant structures may have elevations higher than grade at the structures, this	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				missile is considered to potentially impact SSCs at any azimuthal direction and at any elevation above grade at the maximum tornado missile velocity stated above.” Regarding 2nd sentence in Subsection 3.5.3.1.1, replaced “Selected wall thicknesses also satisfy minimum barrier thicknesses provided in Table 1 of NUREG-0800, SRP 3.5.3 (Reference 3.5-10) to prevent local damage against tornado generated missiles.” with “Wall and roof thicknesses satisfy minimum barrier thicknesses provided in Table 1 of NUREG-0800, SRP 3.5.3 (Reference 3.5-10) to prevent local damage against tornado generated	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				missiles."	
DCD_03.02.02-20	Table 3.2-2 (Sheet 39 of 56)	3.2-55	Response to RAI No. 724 MHI Letter No. UAP-HF-11117 Date 04/21/2011	Changed classification of permanent cavity seal	-
DCD_03.09.04-11 This change is superseded by the amend RAI Response.	3.9.4.4	3.9-66	Response to RAI No. 679 MHI Letter No. UAP-HF-11120 Date 04/25/2011	Added description about preoperational tests.	-
DCD_10.02-4	3.5.1.3.1	3.5-10	Response to RAI No. 598 MHI Letter No. UAP-HF-11170 Date 06/07/2011	Added "safety-related and non-safety related" in the second paragraph.	-
DCD_09.01.05-18	Table 3.2-2 (Sheet 40 of 56)	3.2-56	Response to RAI No. 616 MHI Letter No. UAP-HF-11175 Date 06/07/2011	Deleted "and the equipment hatch Hoist".	-
DCD_03.07.02-35	3.7.1.1 3.7.1.2 3.7.2	3.7-6 3.7-7 3.7-8 3.7-9 3.7-10 3.7-12 3.7-13 3.7-14	Response to RAI No. 542 MHI Letter No. UAP-HF-11195 Date 06/30/2011	Incorporated changes resulting from RAI no. 542. These changes may originate from one or more of the following 6 Technical Reports:	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	3.7.2.1 3.7.2.2 3.7.2.3.1 3.7.2.3.2 3.7.2.3.3 3.7.2.3.4 3.7.2.3.5 2.7.2.3.6 2.7.2.3.6.1 2.7.2.3.6.2 3.7.2.3.7.1 3.7.2.3.7.2 3.7.2.3.8 3.7.2.3.8.1 3.7.2.3.9 3.7.2.3.9.1 3.7.2.3.9.2 3.7.2.3.10 3.7.2.3.10.1 3.7.2.3.10.2 3.7.2.3.10.3 3.7.2.3.10.4 3.7.2.3.10.5 3.7.2.3.11 3.7.2.4 3.7.2.4.1 3.7.2.5 3.7.2.8 3.7.2.8.2 3.7.2.8.3 3.7.2.8.4 3.7.2.8.5	3.7-15 3.7-16 3.7-17 3.7-18 3.7-19 3.7-20 3.7-21 3.7-22 3.7-23 3.7-24 3.7-25 3.7-26 3.7-27 3.7-28 3.7-29 3.7-30 3.7-32 3.7-33 3.7-34 3.7-38 3.7-39 3.7-40 3.7-41		MUAP-10001 MUAP-11001 MUAP-11006 MUAP-11007 MUAP-10011 MUAP-11013	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	3.7.2.9 3.7.2.10 3.7.2.11 3.7.6 Table 3.7.1-4 Table 3.7.1-7(New Table) Table 3.7.2-1 Table 3.7.2-3 Figure 3.7.2-1 Figure 3.7.2-2 Figure 3.7.2-3 Figure 3.7.2-4 Figure 3.7.2-5 Figure 3.7.2-6 Figure 3.7.2-7 Figure 3.7.2-8 Figure 3.7.2-9 Figure 3.7.2-10 3.8.3.4 3.8.3.4.1 3.8.3.4.3 3.8.3.4.4 3.8.3.4.5 3.8.3.4.5.1 3.8.3.4.5.2 3.8.3.4.5.3 3.8.3.4.5.5 3.8.5.1.1 3.8.5.4.1 3.8.5.5 3.8.7 Table 3.8.3-3	3.7-43 3.7-44 3.7-64 3.7-66 3.7-70 3.7-72 3.7-73 3.7-75 3.7-86 3.7-87 3.7-88 3.7-89 3.7-90 3.7-91 3.7-92 3.7-93 3.7-94 3.7-95 3.8-39 3.8-40 3.8-41 3.8-42 3.8-43 3.8-44 3.8-73 3.8-76			

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	Table 3.8.3-4 Figure 3.8.3-12 through Figure 3.8.3-18 (New figure) Appendix 3H Acronyms and Abbreviations 3H.1 3H.2 3H.3 3H.4 3H.5(new section) Table 3H-1 through 3H-3(New tables) Figure 3H-1 through 3H-10 (new figures)	3.8-79 3.8-88 3.8-96 3.8-97 3.8-202 3H-ii 3H-1			
DCD_03.12-25	3.12.5.10	3.12-15	Response to RAI No. 742 MHI Letter No. UAP-HF-11212 Date 07/08/2011	Revised the last paragraph of Subsection 3.12.5.10 to modify description about the fatigue evaluation results. Added description about the reference place of the outline of the heatup and cooldown operation in Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				3.12.5.10	
DCD_09.02.02-80	Table 3.2-2(Sheet 54 of 56) Table 3.9-14 (Sheet 75 of 112) Table 3D-2 (sheet 41 of 61)	3.2-70 3.9-195 3D-46	Response to RAI No. 697 MHI Letter No. UAP-HF-11133 Date 05/12/2011	Revised the Table 3.2-2, Table 3.9-14 and Table 3D-2 to reflect alternative cooling water line isolation valves.	-
DCD_09.02.02-49 This change is superseded by the amend RAI Response.	Table 3.2-2 (sheets 21, 22, 23, 24, 25 Table 3.9-14 (sheets 58, 59, 69, 70, 71)	3.2-37 3.2-38 3.2-39 3.2-40 3.2-41 3.9-178 3.9-179 3.9-189 3.9-190 3.9-191	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Update Table 3.2-2 to reflect revised valve isolation configuration for non-safety piping. Revised “Valve/ Actuator Type”, “Inservice Testing Type and Frequency” and “IST Notes” be updated to reflect valves used to isolate safety-related piping from other parts of the system in Table 3.9-14. Updated to Table 3.9-14 for the “300” series valves as well as NCS-MOV-241, NCS-MOV-242, has been provided via the response to RAI 697-5502 (Q9.2.2-	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				80), submitted to the NRC 12 May 2011 via UAP-HF-11133. Modified IST requirements for header tie line isolation valves (NCS-MOV-007 A/B/C/D and 020A/B/C/D) in Table 3.9-14. Deleted to Table 3.9-14 for the “600” series valves.	
DCD_09.02.02-49	Table 3.2-2 (sheets 25,26,27,28 Table 3.9-14 (sheets 60,61,62,73,74, 75) Table 3D-2 (sheets 40,41, 42)	3.2-41 3.2-42 3.2-43 3.2-44 3.9-191 3.9-192 3.9-193 3.9-204 3.9-205 3.9-206 3D-45 3D-46 3D-47	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Update Table 3.2-2 to reflect revised valve isolation configuration for non-safety piping. Revised “Valve/ Actuator Type”, “Inservice Testing Type and Frequency” and “IST Notes” be updated to reflect valves used to isolate safety-related piping from other parts of the system in Table 3.9-14. Updated to Table 3.9-14 for the “300”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				series valves as well as NCS-MOV-241, NCS-MOV-242, has been provided via the response to RAI 697-5502 (Q9.2.2-80), submitted to the NRC 12 May 2011 via UAP-HF-11133. Modified IST requirements for header tie line isolation valves (NCS-MOV-007 A/B/C/D and 020A/B/C/D) in Table 3.9-14. Deleted to Table 3.9-14 for the “600” series valves. Deleted to Table 3D-2 for valve isolation of non-seismic piping. Added to Table 3D-2 for valve isolation of non-safety piping.	
DCD_09.02.02-56	Table 3.9-14 (sheet 65)	3.9-196	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-	Revised Table 3.9-14 to add check valves NCS-VLV-231A and B.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			11237 Date 07/29/2011		
DCD_09.02.02-58	Table 3.2-2 (sheet 27) Table 3.9-14 (sheets 70, 71, 72) Table 3D-2 (sheet 40)	3.2-43 3.9-201 3.9-202 3.9-203 3D-45	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Delete reference to NCS-MOV-445A/B, 447A/B, 448A/B in Table 3.2-2, Table 3.9-14, and Table 3D-2.	-
DCD_09.02.02-70	Table 3.2-2 (sheet 53)	3.2-69	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Deleted the notes of “Piping and valves (except portion of the containment penetration)”. Added the new row for “Piping and valves within areas containing safety-related equipment (except portion of the containment penetration)”	-
DCD_09.02.02-80	Table 3.2-2 Table 3.9-14 Table 3D-2	3.2-70 3.9-195 3D-46	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 07/29/2011	Revised Table 3.2-2 to add the rows which are used for alternate component cooling water supply/return headers. Revised Table 3.9-14 to add the valves which are used for alternate cooling of charging	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				pumps and alternate cooling of containment fan cooler. Revised Table 3D-2 to add the NCS-MOV-241 and 242.	
DCD_03.08.01-14	3.8.1.1.1 3.8.1.6	3.8-1 3.8-25 3.8-26	Response to RAI No. 768 MHI Letter No. UAP-HF-11231 Date 07/25/2011	Inserted a sentence as the 5th paragraph in Subsection 3.8.1.1.1 for RAI Response Replaced the last paragraph under the header "**Liner Plate**" in Subsection 3.8.1.6 for RAI Response	-
DCD_03.09.04-11	3.9.4.4	3.9-66	Response to RAI No. 679 MHI Letter No. UAP-HF-11245 Date 07/29/2011	Added description about preoperational tests.	-
DCD_03.05.03-10	3.5.1.4	3.5-11	Response to RAI No. 758 MHI Letter No. UAP-HF-11424 Date 12/09/2011	In the last paragraph in DCD Subsection 3.5.1.4, the following sentence is added. "Additional tornado loading design requirements are addressed in Subsections 3.3.2 and 3.8.4."	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.02.02-68	Table 3.2-2 (Sheet 25, 26 of 56) Table 3D-2 (Sheet 8, 9, 38, 42 of 61) Table 3K-3 (Sheet 6, 24, 28 of 28)	3.2-45 3D-13 3D-14 3D-43 3D-47 3K-49 3K-67 3K-71	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Revised the table 3.2-2 to reflect change of the boundary valve of makeup line in CCWS. Revised the table 3D-2 to reflect change of the channel number of CCW surge tank level gauge. Revised the table 3D-2 to reflect addition of the channel of CCW surge tank level gauge. Revised the table 3D-2 to reflect change of the level control valve number of CCW surge tank. Revised the table 3D-2 to reflect addition of the level control valve of CCW surge tank. Revised the table 3K-3 to reflect change of the channel number of CCW surge tank	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				level gauge. Revised the table 3K-3 to reflect addition of the channel of CCW surge tank level gauge. Revised the table 3K-3 to reflect change of the level control valve number of CCW surge tank. Revised the table 3K-3 to reflect addition of the level control valve of CCW surge tank.	
DCD_03.06.01-7	3.6.2.6	3.6-25	Response to RAI No. 795 MHI Letter No. UAP-HF-11362 Date 10/26/2011	It explicitly state that the pipe break hazards analysis will evaluate the consequences of a postulated 1.0 sq. ft. break for the main steam and feedwater lines within the break exclusion zone.	-
DCD_03.06.01-9	3.6.1.3 3.6.4	3.6-8 3.6-36	Response to RAI No. 795 MHI Letter No. UAP-HF-11362 Date	It explicitly state to update the as-design pipe hazards analysis report to include the impact	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			10/26/2011	of all site specific high and moderate piping systems.	
DCD_03.09.04-13	3.9.4.2.1	3.9-63	Response to RAI No. 835 MHI Letter No. UAP-HF-11373 Date 11/2/2011	Revised second paragraph of subsection 3.9.4.2.1.	-
DCD_03.09.06-51	3.9.6 3.9.6.1	3.9-80	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6 and 3.9.6.1 of DCD is revised to add description of ASME OM.	-
DCD_03.09.06-52	3.9.6 3.9.6.1	3.9-81	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.1of DCD is revised to specify the provisions for the functional design and qualification of pumps, valves, and dynamic restraints. The applicable GDC for functional design and qualification of pumps, valves, and dynamic restraints is included in Section 3.9.6.	-
DCD_03.09.06-49	3.9.6.1 3.9.10	3.9-80 3.9-98	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.1of DCD is revised to state that the functional design and qualification of pumps, valves, and dynamic restraints is to be performed in	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				accordance with ASME QME-1-2007, “Qualification of Active Mechanical Equipment Used in Nuclear Power Plants”.	
DCD_03.09.06-50	3.9.6 3.9.10	3.9-80 3.9-93	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	The overall provisions for the IST program is relocated to Section 3.9.6. The revised Section 3.9.6 is also specify the applicability of the 2004 Edition through the 2006 Addenda of the ASME OM Code.	- -
DCD_03.09.06-53	3.9.6 3.9.6.2 3.9.9	3.9-84 3.9-87 3.9-102	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.2 of DCD is revised to fully describe the IST program for pumps used in the US-APWR.. Section 3.9.9, “Combined License Information,” Item COL 3.9(8), is revised to delete the requirement that the COL applicant is to provide a full description of their IST program plan for pumps, valves, and dynamic restraints.	-
DCD_03.09.06-55	3.9.6 3.9.6.3 3.9.6.3.3	3.9-84 3.9-88 3.9-89 3.9-93	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date	Subsection 3.9.6.3 is revised to fully describe the IST program for valves used in the US-	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	3.9.6.3.7 3.9.9	3.9-94 3.9-95 3.9-96 3.9-97 3.9-102	11/02/2011	APWR. Section 3.9.9, "Combined License Information," Item COL 3.9(8), is revised to delete the requirement that the COL applicant is to provide a full description of their IST program plan for pumps, valves, and dynamic restraints.	
DCD_03.09.06-58	3.9.6.3.1 3.9.10	3.9-83 3.9-84 3.9-98	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	The description of the IST program for MOVs specifies that the MOV program satisfies the IST testing requirements in the ASME OM Code and also satisfies the requirement for periodic verification of MOVs in accordance with 10 CFR 50.55a The MOV program description references the Joint Owners Group (JOG) Program on MOV Periodic Verification.	-
DCD_03.09.06-59	3.9.6.3.2	3.9-92 3.9-93 3.9-94	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.3.2 of DCD is revised to fully describe the IST program for POVs used in the US-APWR. The POV program description also specifies testing	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				for all safety-related POVs regardless of their safety significance.	
DCD_03.09.06-66	3.9.6.4 3.9.6.4.1 3.9.6.4.2 3.9.6.4.3 3.9.9	3.9-97 3.9-98 3.9-99 3.9-99 3.9-102	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.4 is revised to fully describe the IST program for dynamic restraints used in the US-APWR. Section 3.9.9, “Combined License Information,” Item COL 3.9(6), is revised to delete the requirement that the COL applicant is to provide the program plan for IST of dynamic restraints in accordance with Nonmandatory Appendix A of ASME OM Code.	-
DCD_03.09.06-68	3.9.6.4 3.9.6.5 3.9.9	3.9-97 3.9-101 3.9-102	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	Subsection 3.9.6.2 through 3.9.6.4 of DCD is revised to fully describe the IST program for pumps, valves and dynamic restraints used in the US-APWR. Section 3.9.9, “Combined License Information,” Item COL 3.9(6), is revised to delete the requirement that the COL applicant is to provide the program plan for IST of dynamic restraints in accordance with	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Nonmandatory Appendix A of ASME OM Code	
DCD_03.09.06-57	Table 3.9-14 (Sheet 2, 3, 16, 17, 18, 20 , 21, 22, 23, 29, 30,31, 45,46, 49, 50, 55, 56, 65, 68, 98,99,100,102, 119)	3.9-132 3.9-133 3.9-146 3.9-147 3.9-148 3.9-140 3.9-151 3.9-152 3.9-153 3.9-159 3.9-160 3.9-161 3.9-175 3.9-176 3.9-179 3.9-180 3.9-185 3.9-186 3.9-195 3.9-228 3.9-229 3.9-230 3.9-232 3.9-249 3.9-250	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	For (c) ,(d),(j),and (l) of Question03.09.06-57: The leakage limit of valves as RCPB is clarified. For (g) of Question03.09.06-57: A remote position indication test every 2 years is added to the Table3.9-14 for SIS-MOV-009A through-009D. For (y) of Question03.09.06-57: main steam isolation valves MSS-SMV-515A through D and main feed isolation valves FWS-SMV-512A through D is revised to state that the full stroke testing is done at hot standby conditions instead of at cold shutdown,	-
DCD_03.09.06-64	Table 3.9-14 Sheet 66	3.9-196	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	The CCW system Train A and Train C supply or return lines of the component cooling water system can be connected by valves NCS-MOV-232A and B and	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				NCS-MOV-233A and B, respectively. The clarification of the OM categorization of NCS-MOV-232A and B were acceped. The basis for the ASME Code categorization for NCS-MOV-233A and B is similar as the one of NCS-MOV-232A and B	
DCD_03.09.03-27	Table 3.9-3 Table 3.9-4 Table 3.12-4	3.9-102 3.9-103 3.12-31	Response to RAI No. 847 MHI Letter No. UAP-HF-11411Date 11/25/2011	▪ Removed "SRSS" from third equation of Level D in Table 3.9-3 due to typo. ▪ Corrected parentheses and Note location where applicable. ▪ Removed TH from Note 7 for Table 3.9-4. Simplified the definition of SRSS in Note 1 of Table 3.12-4.	-
DCD_03.12-27	3.9.10 3.12.2.1 3.12.2.2 3.12.6.1 3.12.8	3.9-92 3.12-1 3.12-2 3.12-17 3.12-25	Response to RAI No. 804 MHI Letter No. UAP-HF-11382 Date	Added descriptions about codes and Standard.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
		3.12-26	11/10/2011		
DCD_03.12-28	3.9.10 3.12.3 3.12.3.6 3.12.5.7 3.12.5.15	3.9-95 3.12-2 3.12-6 3.12-13 3.12-16	Response to RAI No. 804 MHI Letter No. UAP-HF-11382 Date 11/10/2011	Modified typo about SRP Section number and Revision number of RG. Revised the subsection 3.12.5.12 and Added the description about standard industry practices.	-
DCD_03.12-29	3.12.5.9 3.12.8	3.12-14 3.12-26	Response (60 day) to RAI No. 804 MHI Letter No. UAP-HF-11410 Date 11/25/2011	The statement about cavity flow is added.	-
DCD_03.12-30	3.12.4.2	3.12-9	Response to RAI No. 846 MHI Letter No. UAP-HF-11398 Date 11/18/2011	Revised the disruptions and formula about dynamic piping model.	-
DCD_03.09.01-6	3.9.1.2.1 3.9.10 3.12.4.1.1 3.12.8	3.9-15 3.9-98 3.12-8 3.12-26	Response to Amended RAI No. 770 MHI Letter No. UAP-HF-11420 Date 12/02/2011	Computer Code description are added.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_03.06.02-47	3.6.2.1.2.2	3.6-13	Response to Amended RAI No. 636 MHI Letter No. UAP-HF-11407 Date 11/22/2011	Change the first bullet of the first paragraph of DCD Subsection 3.6.2.1.2.2 to: “For ASME Code, Section III, Class 1 piping, where the stress range calculated by Eq. (10) in NB-3653 is more than or equal to 1.2 S(m)”	-
DCD_3.12-25	3.9.1.1 3.12.5.10 3.12.7	3.9-2 3.12-15 3.12-23	Response to RAI No. 742 MHI Letter UAP-HF-11363 Date 10/26/2011	Description is added about the pressurizer surge line monitoring.	-
DCD_03.09.01-7	3.9.1.1.1.10	3.9-7	Response to RAI No. 802 MHI Letter No. UAP-HF-11371 Date 11/1/2011	Description is added to explain the core lifetime extention.	-
DCD_03.09.03-27 S1	Table 3.9-3 Table 3.9-4 Table 3.9-5 Table 3.12-4	3.9-102 3.9-103 3.9-104 3.12-31	Response to RAI No. 847 MHI Letter No. UAP-HF-11411 Date 11/25/2011	Editorial corrections applied to all tables and corresponding Notes/	-
DCD_03.04.01-31	Table 3.2-2 Sheet 42 3.4.1.5.2.2	3.2-53 3.4-20	Response to RAI No. 842 MHI Letter No. UAP-HF-	Revised Table 3.2-2 to upgrade the Seismic Category of a part of Potable	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			11436 Date 12/19/2011	and Sanitary Water System. Revised a description about potable and sanitary water system in the main control room.	
DCD_03.04.01-32	3.4.1.3	3.4-5	Response to RAI No. 842 MHI Letter No. UAP-HF-11436 Date 12/19/2011	Revised a description about a function, inspection, testing and maintenance of water-tight doors.	-
DCD_09.01.03-8	Table 3D-2 (Sheet 8, 9, 12)	3D-13 3D-14 3D-17	Response to RAI No. 756 MHI Letter No. UAP-HF-11255 Date 8/10/2011	Added the information of SFP level, SFP temperature and SFP pump discharge flow.	-

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Chapter 4

Chapter 4 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_03.09.04-10	4.6.3	4.6-2	Response to RAI No. 679 MHI Letter No. UAP-HF-11120 Date 04/25/2011	Added "Preoperational tests of electrical system" as the third bullet.	-
DCD_04.02-18	4.2.4.5	4.2-33	Response to RAI No. 129 MHI Letter No. UAP-HF-11427 Date 12/14/2011	Added the description about fuel inspection related to cladding corrosion for the first US-APWR operator.	-
DCD_04.05.01-15	4.5.1.2	4.5-3	Response to RAI No. 654 MHI Letter No. UAP-HF-11221 Date 7/15/2011	Added the first and second sentence.	--
DCD_04.05.01-11	4.5.1.2	4.5-3	Response to RAI No. 654 MHI Letter No. UAP-HF-11221 Date 7/15/2011	Deleted “for the CRDM pressure housing” from the second sentence.	-
DCD_04.05.01-8	4.5.1.1.1	4.5-2	Response to RAI No. 457 MHI Letter No. UAP-HF-11223 Date 7/15/2011	Deleted the second sentence of “Detailed description of the austenitic stainless steel for pressure housing material is given in Subsection 5.2.3”.	-
DCD_04.04-41	New Subsection	4.4-25	Response to RAI No. 845-	Added subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	4.4.5.4		6116 Revision 3 MHI Letter No. UAP-HF-11379 Date 11/17/2011	4.4.5.4.	
DCD_04.02-19	4.2.4.5	4.2-33	Response to RAI No. 129 MHI Letter No. UAP-HF-11427 Date 12/14/2011	Added the description about fuel inspection related to cladding corrosion for the first US-APWR operator.	-

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Chapter 5

Chapter 5 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_19-495	5.4.7.2.3.6	5.4-45 5.4-46	Response to RAI No. 681 MHI Letter No. UAP-HF-11037 Date 02/17/2011	Replaced “mid loop level” with “RCS Low water level (0.47 feet higher than loop center)” Deleted “During mid-loop operation, the air/water interface is at close proximity to the RHR suction nozzles located on the hot legs, but the higher RCS water level applied for the US-APWR design reduces the possibility of air entrainment into the RHR pump suction. Air ingestion by an RHR pump can cause loss of pump function, creating the potential for loss of RHR.”	-
DCD_05.02.03-27	5.2.3.3.2	5.2-20	Response to RAI No. 644 MHI Letter No. UAP-HF-11044 Date 02/22/2011	Added the first sentence in the 8th paragraph, and deleted the word ‘either’ and sentence ‘or by maintaining preheat until post weld heat treatment is performed’ on	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				same paragraph.	
DCD_05.02.01.02-7	Table 5.2.1-2 (Sheet 2 of 2)	5.2-4 5.2-5	Response to RAI No. 575 MHI Letter No. UAP-HF-11122 Date 04/26/2011	Added mark (1) and foot-note.	-
DCD_05.04.01.01-3	5.4.1.1.2	5.4-2	Response to RAI No. 274 MHI Letter No. UAP-HF-11105 Date 04/14/2011	Deleted the sentence ‘With respect this test procedure, it should be decided qualified test procedure and acceptance criteria.’	-
DCD_05.04.11-1	5.4.11.3 Table 5.4.11-1	5.4-82 5.4-83	Response to RAI No. 741 MHI Letter No. UAP-HF-11197 Date 06/29/2011	Added descriptions about “The PRT is designed to withstand an internal pressure of 200 psig and an external pressure of 15 psig, which conservatively represents atmospheric pressure with an assumed internal absolute vacuum. PRT design pressures values, internal and external, are shown respectively in Table 5.4.11-1 as 200/15 (psig).” Added the Note about Design pressure in Table	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				5.4.11-1. Added the row about Total rupture disk relief flow capacity (lb/hr) in Table 5.4.11-1. Added the row about Rupture disk burst pressure (psig) in Table 5.4.11-1.	
DCD_05.04-2	5.4.1.3.3	5.4-4	Response to RAI No. 745 MHI Letter No. UAP-HF-11205 Date 07/04/2011	Revised the description about temperature of the reactor coolant flow into the RCP seals in Subsection 5.4.1.3.3.	-
DCD_05.04.12-2	5.4.12.2 5.4.12.3	5.4-86 5.4-87 5.4-89	Response to RAI No. 762 MHI Letter No. UAP-HF-11210 Date 07/07/2011	Added the description about the reactor vessel head vent for the air vent path after the first paragraph of Section 5.4.12.2. Added the description about the noncondensable gases accumulating in the SG U-tubes after the first paragraph of Section 5.4.12.2. Added the description about the transfer of the	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				noncondensable gases accumulating in the SG U-tubes after the first paragraph of Section 5.4.12.3.	
DCD_16-298	5.4.10.1	5.4-69	Response to RAI No. 399 MHI Letter No. UAP-HF-11160 Date 05/30/2011	Added the sentence “initiated from an initial pressurizer water level that is less than or equal to the nominal level plus instrument uncertainty”	-
DCD_19-493	5.4.7.2.3.6	5.4-46	Response to RAI No. 669 MHI Letter No. UAP-HF-11229 Date 7/20/2011	Inserted description regarding procedures to remove pressurizer safety valves, SG manways and SG nozzle dams.	-
DCD_19.01-10	5.4.7.2.3.6	5.4-45	Response to MHI Letter No. UAP-HF-10344 Date 12/27/2010	Incorporated description regarding hydrogen peroxide.	-
DCD_19-492	5.4.7.2.3.6	5.4-46	Response to MHI Letter No. UAP-HF-10345 Date 12/27/2010	Incorporated description regarding key activities during LPSD operation.	-
DCD_19-493	5.4.7.2.3.6	5.4-46	Response to MHI Letter No. UAP-HF-10345 Date 12/27/2010	Incorporated description regarding key activities during LPSD operation.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
MIC-03-05-00002	5.2.7	5.2-48	GSI 191 Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Referred latest revision of the document, MUAP-08001-R5.	1
MIC-03-05-00001	Table 5.4.7-2 (Sheet 1 of 2)	5.4-57	GSI 191 Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated NPSH calculation of CS/RHR pump	1

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5.2-33 S.Asada, et. Al., PWSCC Life Time Evaluation on Alloy 690, 52 and 152 for PWR Materials, EPRI PWSCC of Alloy 600, 2007 International Conference & Exhibition.

5.2-34 Contents of Applications; Technical Information, NRC Regulations Title 10, Code of Federal Regulations, 50.47.

5.2-35 Operation and Maintenance Code Case Acceptability, ASME OM Code.

5.2-36 US-APWR Sump Strainer Performance, MUAP-08001, Revision ~~2~~5, ~~December 2008~~August 2011. MIC-03-05-00002

5.2-37 Boric Acid Corrosion of Carbon Steel Reactor Pressure Boundary Components in PWR Plants, Generic Letter 88-05, March 17. 1998.

5.2-38 Control of Preheat Temperature for Welding of Low-Alloy Steel, Regulatory Guide 1.50, Rev.0, May 1973.

5.2-39 Thermal Aging Embrittlement of Cast Austenitic Stainless Steel Components, License Renewal Issue No. 98-0030, May 19, 2000.

5.2-40 Deleted

5.2-41 Minimization of Contamination and Radioactive Waste Generation: Life-Cycle Planning. RG 4.21, Rev.0, U.S. Nuclear Regulatory Commission, Washington, DC, June 2008.

Table 5.4.7-2 Equipment Design Parameters (Sheet 1 of 2)

Containment Spray/Residual Heat Removal Pump	
Number	4
Type	Horizontal, centrifugal type
Power Requirement (kW)	400
Design Flow Rate (gpm)	3,000
Design Head (ft)	410
Minimum Flow Rate (gpm)	355
Maximum Flow Rate (gpm)	3,650
Design Pressure (psig)	900
Design Temperature (° F)	400
Material	Stainless Steel
Normal Operating Temperature (° F)	32 ~ 356
Fluid	Reactor coolant, Boric acid water
Radioactive Concentration (kBq/cm^3)	≥ 37
NPSH Available	~~17.9 ft at 3,650 gpm~~20.9 ft. Note1
Design-basis NPSH Required	~~16.4 ft at 3,650 gpm~~19.7 ft.
Equipment Class	2

MIC-03-05-00001

Note 1 Detail of NPSH available is described in Reference 6.2-34

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Chapter 6

Chapter 6 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.04.01-26	Table 6.4-1 Table 6.4-2	6.4-11 6.4-14	Response to RAI No. 689 MHI Letter No. UAP-HF-11065 Date 03/15/2011	Specified the limit on impregnant in the activated charcoal adsorbers in Table 6.4-1. Removed the reference to the COL applicant requirement from Table 6.4-2.	-
DCD_06.03-91	6.3.2.2.1	6.3-5 6.3-6	Response to RAI No. 695 MHI Letter No. UAP-HF-11069 Date 03/18/2011	Added “which are supplied with cooling water from the Component Cooling Water System (CCWS) and installed in the Safeguard Component Area in the reactor building”	-
DCD_06.03-95	Table 6.3-4 (Sheet 9 of 11)	6.3-42	Response to RAI No. 695 MHI Letter No. UAP-HF-11069 Date 03/18/2011	Added “ISI for the reactor vessel head is discussed in Subsection 5.2.4”	-
DCD_06.03-88	Figure 6.3-11	6.3-73	Response to RAI No. 695 MHI Letter No. UAP-HF-11069 Date	Revised Figure 6.3-11 to correct dimensions related to NaTB container	-

			03/18/2011	and Basket.	
DCD_06.02.05-43	6.2.5 6.2.5.1 6.2.5.3	6.2-58 6.2-61	Response to RAI No. 751 MHI Letter No. UAP-HF-11169 Date 06/03/2011	Added description about hydrogen igniter in the second from the last paragraph of section 6.2.5 Replaced the last paragraph of section 6.2.5 with new description containing additional technical information Replace “the systems” in the first paragraph of section 6.2.5.1 with “the containment hydrogen monitoring and control system and the containment spray system” Added “uniformly distributed” in the final paragraph of section 6.2.5.3	-
DCD_06.02.02-64	Table 6.2.1-3 Table 6.2.1-5 (Sheet 1 of 2)	6.2-73 6.2-75	Response to RAI No. 740 MHI Letter No. UAP-HF-11181 Date 06/14/2011	Revised Table 6.2.1-3 and 6.2.1-5 (Sheet 1 of 2) to reasons as discussed in RAI 740-5719.	-

This change is superseded by the amend RAI Response.

DCD_06.02.04-55	Table 6.2.4-3(Sheet 14 of 15) Figure 6.2.4-1 (Sheet 11, 18 of 52)	6.2-207 6.2-317 6.2-324	Response to RAI No. 729 MHI Letter No. UAP-HF-11183 Date 06/16/2011	Added “The lines from the RWSP are always submerged (during normal operation and postulated accidents) such that no contianment atmosphere can impinge upon the valves. The systems which the RWSP lines connect to outside containment are closed systems meeting the appropriate requirments of closed systems in the standard (N271-1976), including 3.6.4 and 3.6.7.” in Note 7 Deleted “not” in Note 7. Added “Should a leak develop outside containment, the fluid will be contained by the controlled leakage safeguard component area.” in Note 7. Added “which is described in DCD Subsection 3.6.2”	-

				in Note 7 Added “Note: Valve and piping are located in the Safeguard Component Area to control and terminate leakage.” in sheet 11 and 18.	
DCD_06.02.02-63 This change is superseded by the amend RAI Response.	6.1.1.2.1 6.2.2.3	6.1-3 6.2-48	Response to RAI No. 736 MHI Letter No. UAP-HF-11185 Date 06/21/2011	Added “Programmatic controls to limit aluminum in the containment are described in Subsection 6.2.2.3.” in Section 6.1.1.2.1. Added “, aluminum” in Section 6.2.2.3.	-
DCD_09.02.02-58	6.2.4.2 6.2.4.3.2 Table 6.2.4-3 (sheet 6)	6.2-63 6.2-64 6.2-66 6.2-214	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Clarified isolation function and actuation of CCW supply and return line to the RCPs valves in subsection 6.2.4.2. Deleted reference to NCS-MOV-445A/B, 447A/B, 448A/B in table 6.2.4-3. Changed “Valve Position, Post-Accident” from “C” to “O” for NCS-	-

				MOV-402A/B, 436A/B, 438A/B in table 6.2.4-3. Changed "Actuation Mode, Primary" from "Auto" to "RM" for NCS-MOV-402A/B, 436A/B, 438A/B in table 6.2.4-3. Changed "Actuation Mode, Secondary" from "RM" to "Manual" for NCS-MOV-402A/B, 438A/B in table 6.2.4-3. Changed "Actuation Mode, Secondary" from "RM" to "None" for NCS-MOV-436A/B in table 6.2.4-3. Changed "Actuation Signal" from "P" to "NA" for NCS-MOV-402A/B, 436A/B, 438A/B in table 6.2.4-3.	
DCD_06.02.02-64	Table 6.2.1-3 Table 6.2.1-5 (Sheet 1 of 2)	6.2-73 6.2-75	Response to Amended RAI No. 740 MHI Letter No. UAP-HF-11280 Date 8/31/2011	Revised water volume in 3rd to 6th line of Table 6.2.1-3 for RAI response. Revised full	-

				capacity water volume of No. IV. A. in Table 6.2.1-5 for RAI response.	
DCD_06.02.05-44	6.2.2.2 6.2.5.3	6.2-42 6.2-61	Response to RAI No. 803 MHI Letter No. UAP-HF-11304 Date 9/9/2011	Clarified the CSS function of containment atmosphere mixing (6.2.2.2), and provide additional information of confirming mixing ability (6.2.5.3)	-
DCD_09.04.05-21	6.5.7	6.5-12	Response to RAI No. 825 MHI Letter No. UAP-HF-11345 Date 10/06/2011	Added "6.5-8 "Safety-Related Air Conditioning, Heating, Cooling and Ventilation Systems Calculations," MUAP-10020-P Rev. 1 (Proprietary) and MUAP-10020-NP Rev.1 (Non-Proprietary), March 2011."	-
DCD_03.09.06-61	Table 6.2.4-3 (Sheet 1of 15 ～Sheet 12 of 15)	6.2-194 through 6.2-208	Response to RAI No. 801 MHI Letter No. UAP-HF-11375 Date 11/02/2011	The stroke time units in Table 6.2.4-3 are seconds. The Table 6.2.4-3 column for "Valve Closure" is revised to "Valve Closure (seconds)".	-
DCD_06.02.02-66	6.2.8	6.2-67	Response to RAI No. 836 MHI Letter No.	Added "blowdown water" because that will contact	-

			UAP-HF-11383 Date 11/11/2011	with aluminum in post-LOCA condition.	
DCD_06.02.02-67	6.2.2.3.10	6.2-50	Response to RAI No. 836 MHI Letter No. UAP-HF-11383 Date 11/11/2011	Changed chemical effect test summary in appropriate expression.	-
DCD_06.02.02-84	6.2.2.1.4 6.3.2.5	6.2-42 6.3-15	Response to RAI No. 840 MHI Letter No. UAP-HF-11406 11/22/2011	The statement is added to section6.3.2.5 and 6.2.2.1.4.	-
DCD_06.02.02-63	6.1.1.2.3 6.2.2.3	6.1-5 6.2-48	GSI-191, esponse to RAI No. 736 MHI Letter No. UAP-HF-11215 Date 07/13/2011	Added "Programmatic controls to limit aluminum in the containment are described in Subsection 6.2.2.3." in Section 6.1.1.2.3. Added ", aluminum" in Section 6.2.2.3.2	1
DCD_06.02.02-55	6.2.2.3.1	6.2-50	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Break Selection	Added section to describe break selection criteria for RAI response.	1
DCD_06.02.02-	6.2.2.3.2	6.2-	GSI-191, Response to	Added section to describe design-	1

			RAI No. 354-2585 MHI Letter No. UAP-HF-09382 Date 7/17/2009 regarding Debris Source Term	basis debris source term, insulation types, and attachment methods for RAI response.	
DCD_06.02.02-55	6.2.2.3.3	6.2-54	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Debris Generation	Added new section and updated methodology to describe debris generation and ZOIs for RAI response.	1
DCD_06.02.02-55	6.2.2.3.4	6.2-54,55	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Debris Characteristics	Added section to describe debris transportability characteristics for RAI response.	1
DCD_06.02.02-55	6.2.2.3.5	6.2-55	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Debris Transport	Added section to describe debris transport to strainer for RAI response.	1
DCD_06.02.02-55	6.2.2.3.6	6.2-55	GSI-191, Response to	Added section to provide design-	1

			RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Debris Head Loss	basis strainer head loss and refer to head loss tests for RAI response.	
DCD_06.02.02-55	6.2.2.3.7	6.2-56	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding NPSH	Added section to describe NPSH calculation for RAI response.	1
DCD_06.02.02-55	6.2.2.3.8	6.2-56	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Thermo-hydraulic performance	Added section to describe air ingestion on strainer performance (e.g., vortex, flashing, deaeration) for RAI response.	1
DCD_06.02.02-55	6.2.2.3.9	6.2-57	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Coatings	Added section to describe coating qualification and standards for RAI response.	1
DCD_06.02.02-	6.2.2.3.10	6.2-57	GSI-191, Response to	Added section to describe chemical	1

55			RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Chemical debris	precipitates and tests for RAI response.	
DCD_06.02.02-55	6.2.2.3.11	6.2-57	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Upstream effects	Added section to describe return water and flow path blockage to RWSP for RAI response.	1
DCD_06.02.02-55	6.2.2.3.12	6.2-58	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Downstream effects	Added section to describe ex-vessel (component and equipment) performance downstream of strainer for RAI response.	1
DCD_06.02.02-55	6.2.2.3.13	6.2-58	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Downstream effects	Added section to describe in-vessel (core blockage) performance downstream of strainer for RAI response.	1
DCD_06.02.02-55	6.2.2.3.14	6.2-59	GSI-191, Response to RAI No. 466-	Added section to describe sump strainer structural	1

			3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Sump Structural Analysis	analysis for RAI response.	
DCD_06.02.02-55	6.2.9	6.2-81	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009	Added additional references for revisions and new content to address GSI-191 for RAI response.	1
DCD_06.02.02-64	Table 6.2.1-3 Table 6.2.1-5 (Sheet 1 of 2)	6.2-84 6.2-86	GSI-191, Amended Response to RAI No. 740 MHI Letter No. UAP-HF-11280.	Revised Table 6.2.1-3 and 6.2.1-5 (Sheet 1 of 2) to reasons as discussed in RAI 740-5719.	1
DCD_06.02.02-55	Table 6.2.2-4	6.2-206	GSI-191, Response to RAI No. 466-3715 MHI Letter No. UAP-HF-09534 Date 11/24/2009 regarding Design Basis Debris	Added new table to describe design-basis debris for strainer performance evaluation for RAI response.	1
MIC-03-06-00001	6.2.2.2.5	6.2-45	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced RWSP operating temperature with the design temperature of 270°F for consistency with Section 6.2.1.1.2 and to bound the	1

				peak LOCA fluid temperature.	
MIC-03-06-00002	6.2.2.2.5	6.2-45	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Re-worded and corrected typos in description of debris size and transportability. Added reference to Figure 6.2.1-12.	1
MIC-03-06-00003	6.2.2.2.5	6.4-45	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Re-worded to state that strainers satisfy the Safety Evaluation (SE) of NEI 04-07.	1
MIC-03-06-00004	6.2.2.2.6	6.2-46	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Revised in entirety to describe additional strainer design details and design consistency with RG 1.82.	1
MIC-03-06-00005	6.2.2.3	6.2-47	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Deleted existing GSI-191 program descriptions, which are replaced by content in newly created sections.	1
MIC-03-06-00006	6.2.2.3.2	6.2-51 6.2-52 6.2-53	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Re-worded for clarity, elaborated, and corrected typos in description of programmatic controls for debris sources.	1
MIC-03-06-00007	6.2.8	6.2-77	GSI-191, Tracking Report MHI Letter No.	COL6.2(5) was revised to provide quantitative limits	1

			UAP-HF-11287 Dated 08/31/2011	of latent debris.	
MIC-03-06-00008	6.2.8	6.2-78	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	COL6.2(6) was added to state that the procedure will be required to ensure the insulations used in the containment is consistent with debris basis.	1
MIC-03-06-00009	6.2.9	6.2-80	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Revised Ref. 6.2-24 to include Safety Evaluation of NEI 04-07.	1
MIC-03-06-00010	Table 6.2.2-1	6.2-181	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated NPSH calculation based on the design basis strainer head loss.	1
MIC-03-06-00011	Table 6.2.2-2 (Sheet 2 of 17) Regulatory position 1.1.1.3	6.2-183	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated the US-APWR design information consistent with the regulatory position.	1
MIC-03-06-00012	Table 6.2.2-2 (Sheet 2 of 17) Regulatory position 1.1.1.4	6.2-183	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated the US-APWR design information consistent with the regulatory position.	1
MIC-03-06-00013	Table 6.2.2-2 (Sheet 4 of	6.2-185	GSI-191, Tracking Report	Updated the US-APWR design	1

	17) Regulatory position 1.1.1.7		MHI Letter No. UAP-HF-11287 Dated 08/31/2011	information consistent with the regulatory position.	
MIC-03-06-00014	Table 6.2.2-2 (Sheet 4 of 17) Regulatory position 1.1.1.11	6.2-185	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced the wording “RWSP suction strainer” with “ECC/CS strainer”.	1
				Updated the US-APWR design information consistent with the regulatory position.	1
MIC-03-06-00015	Table 6.2.2-2 (Sheet 5 of 17) Regulatory position 1.1.1.12	6.2-186	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced the wording “RWSP suction strainer” with “ECC/CS strainer”.	1
				Add information to address the consistency of the design with the Regulatory Position.	1
MIC-03-06-00016	Table 6.2.2-2 (Sheet 5 of 17) Regulatory position 1.1.1.13	6.2-186	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Remove previous strainer design information. Add statements for consistency with the regulatory position.	1
MIC-03-06-00017	Table 6.2.2-2 (Sheet 5 of 17)	6.2-186	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287	Replaced the wording “RWSP suction strainer” with “ECC/CS	1

	Regulatory position 1.1.1.14		Dated 08/31/2011	strainer".	
MIC-03-06-00018	Table 6.2.2-2 (Sheet 6 of 17) Regulatory position 1.1.1.15	6.2-187	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced the wording "planned" with "applied'.	1
				Add information to address the consistency of the strainer design with regulatory position.	1
MIC-03-06-00019	Table 6.2.2-2 (Sheet 6 of 17) Regulatory position 1.1.2.2	6.2-187	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced with the latest debris source term information. Add programmatic control during maintenance.	1
MIC-03-06-00020	Table 6.2.2-2 (Sheet 6 of 17) Regulatory position 1.1.2.3	6.2-188	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add programmatic control information to minimize the use of aluminum in containment.	1
MIC-03-06-00021	Table 6.2.2-2 (Sheet 6 of 17) Regulatory position 1.1.3	6.2-188	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement that the US-APWR does not reply on operator action against debris accumulation on the strainer.	1
MIC-03-06-00022	Table 6.2.2-2 (Sheet 7 of 17) Regulatory position 1.1.4	6.2-188	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated	"Appendix-5" was correctly read as "Appendix-B" per RG 1.82 statement.	1

			08/31/2011		
MIC-03-06-00023	Table 6.2.2-2 (Sheet 7 of 17) Regulatory position 1.1.5	6.2-188	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced the wording "RWSP suction strainer" with "ECC/CS strainer".	1
MIC-03-06-00024	Table 6.2.2-2 (Sheet 8 of 17) Regulatory position 1.2	6.2-189	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"Regulatory Position 3.1" was correctly read as "Regulatory Position 1.3"	1
				Replaced the wording "RWSP suction strainer" with "ECC/CS strainer". (Typical two places)	1
MIC-03-06-00025	Table 6.2.2-2 (Sheet 8 of 17) Regulatory position 1.3	6.2-189	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"NEI 04-07" was correctly referred as "the SE of NEI 04-07"	1
				Replaced with the statement to refer precise subsections and technical reports for compliance with the regulatory position.	1
MIC-03-06-00026	Table 6.2.2-2 (Sheet 9 of 17) Regulatory position 1.3.1.1.	6.2-190	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"Regulatory Position 3.1.2" was correctly read as "Regulatory Position 1.3.1.2"	1
MIC-03-06-00027	Table 6.2.2-2 (Sheet 9 of	6.2-190	GSI-191, Tracking Report MHI Letter No.	"Regulatory Position 3.1.1" was correctly read as	1

	17) Regulatory position 1.3.1.2.		UAP-HF-11287 Dated 08/31/2011	"Regulatory Position 1.3.1.1"	
MIC-03-06-00028	Table 6.2.2-2 (Sheet 9 of 17) (Sheet 10 of 17) (Sheet 11 of 17)	6.2-190 6.2-191 6.2-192 6.2-193	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	The table rows, 1.3.1.3 to 1.3.1.6, were moved from page 6.2-180 and 6.2-181, and inserted between 1.3.1.2 and 1.3.1.7	1
MIC-03-06-00029	Table 6.2.2-2 (Sheet 9 of 17) Regulatory position 1.3.1.8.	6.2-191	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"Regulatory Position 3.4" was correctly read as "Regulatory Position 1.3.4". (Typical two places.)	1
MIC-03-06-00030	Table 6.2.2-2 (Sheet 10 of 17) Regulatory position 1.3.1.9	6.2-192	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"NEI 04-07" was correctly referred as "the SE of NEI 04-07"	1
				Replaced with the statement to refer precise subsections and technical reports for compliance with the regulatory position 1.3.	1
MIC-03-06-00031	Table 6.2.2-2 (Sheet 12 of 17) Regulatory position 1.3.2.2	6.2-194	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add to state that ZOI(s) based of SE of NEI-04-07 were utilized. Add to refer NRC letter for the use of reduced ZOI for	1

				protective coating. Replaced with the statement to refer precise subsections and technical reports for compliance with the regulatory position.	
MIC-03-06-00032	Table 6.2.2-2 (Sheet 12 of 17) (Sheer 13 of 17) (Sheet 14 of 17)	6.2-195	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	The table rows, 1.3.2.3 to 1.3.2.4, were moved from page 6.2-183 and 6.2-184, and inserted between 1.3.2.2 and 1.3.2.5.	1
MIC-03-06-00033	Table 6.2.2-2 (Sheet 13 of 17) Regulatory position 1.3.2.6	6.2-196	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address contrastively with regulatory position how chemical debris was considered in the US-APWR design.	1
MIC-03-06-00034	Table 6.2.2-2 (Sheet 13 of 17) Regulatory position 1.3.2.7	6.2-196	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address contrastively with regulatory position regarding debris degradation in the analysis.	1
MIC-03-06-00035	Table 6.2.2-2 (Sheet 13 of 17) Regulatory position 1.3.2.3	6.2-195 6.2-196	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add to state that ZOI(s) based of SE of NEI-04-07 were utilized, and state to refer precise subsection for compliance with the regulatory position.	1

MIC-03-06-00036	Table 6.2.2-2 (Sheet 14 of 17) Regulatory position 1.3.2.4	6.2-195	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer precise subsection for compliance with the regulatory position.	1
MIC-03-06-00037	Table 6.2.2-2 (Sheet 14 of 17) Regulatory position 1.3.3.1.	6.2-197	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replace with updated clarification for debris transport analysis.	1
MIC-03-06-00038	Table 6.2.2-2 (Sheet 14 of 17) Regulatory position 1.3.3.2.	6.2-197	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Summarize debris type and erosion used in transport analysis.	1
MIC-03-06-00039	Table 6.2.2-2 (Sheet 14 of 17) Regulatory position 1.3.3.3.	6.2-197	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address that CFD was not utilized for the US-APWR debris transport analysis.	1
MIC-03-06-00040	Table 6.2.2-2 (Sheet 15 of 17) Regulatory position 1.3.3.4.	6.2-198	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address that CFD was not utilized for the US-APWR debris transport analysis.	1
MIC-03-06-00041	Table 6.2.2-2 (Sheet 15 of 17) Regulatory position 1.3.3.5.	6.2-198	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address that curbs on the RWSP floor was not credited to reduce the transportable debris to the strainer.	1

MIC-03-06-00042	Table 6.2.2-2 (Sheet 15 of 17) Regulatory position 1.3.3.6.	6.2-198	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Summarize that all debris in the pool was assumed transportable.	1
MIC-03-06-00043	Table 6.2.2-2 (Sheet 15 of 17) Regulatory position 1.3.3.8.	6.2-199	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"Regulatory Position 3.3.4" was correctly read as "Regulatory Position 1.3.3.4"	1
				Replaced with the summary of debris transport and addressed that potential choke points has been surveyed and assessed in the evaluation.	1
MIC-03-06-00044	Table 6.2.2-2 (Sheet 16 of 17) Regulatory position 1.3.3.9.	6.2-199	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced the wording "RWSP suction strainer" with "ECC/CS strainer".	1
				Address contrastively with regulatory position that floating debris doe not adverse strainer design.	1
MIC-03-06-00045	Table 6.2.2-2 (Sheet 16 of 17) Regulatory position 1.3.4.1.	6.2-199	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced with the statement regarding assumptions utilized for strainer performance evaluation.	1

MIC-03-06-00046	Table 6.2.2-2 (Sheet 16 of 17) Regulatory position 1.3.4.2.	6.2-200	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Address contrastively with regulatory position regarding uniform debris accumulation on the strainer which has been demonstrated by testing.	1
MIC-03-06-00047	Table 6.2.2-2 (Sheet 16 of 17) Regulatory position 1.3.4.3.	6.2-200	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced with the statement regarding assumptions utilized for strainer performance evaluation.	1
MIC-03-06-00048	Table 6.2.2-2 (Sheet 16 of 17) Regulatory position 1.3.4.4.	6.2-200	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Inserted “the” before “US-APWR”. Replaced the wording “RWSP suction strainer” with “ECC/CS strainer”. Delete submergence value (i.e. 4ft) from the statement.	1
MIC-03-06-00049	Table 6.2.2-2 (Sheet 17 of 17) Regulatory	6.2-201	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated	Replaced with statement how design basis head loss was determined with a	1

	position 1.3.4.5.		08/31/2011	sufficient margin to empirical data obtained from strainer testing which was performed debris accumulation without unobstructed portion.	
MIC-03-06-00050	Table 6.2.2-2 (Sheet 17 of 17) Regulatory position 1.3.4.6.	6.2-201	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Replaced with statement how design basis head loss was determined with a sufficient margin to empirical data obtained from strainer testing which was implemented under different debris combinations.	1
MIC-03-06-00051	6.3.2.2.3 "Refueling water storage pit" 2nd paragraph, last sentence	6.3-7	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	The RWSP peak temperature was corrected as 270F, which is consistent with the correction in subsection 6.2.2.2.5.	1
MIC-03-06-00052	6.3.2.2.4 "ECC/CS strainer" 3rd paragraph, last sentence	6.3-8	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	"Subsection 6.2.2.26" was correctly read as "Subsection 6.2.2.2.6"	1
MIC-03-06-00053	6.3.2.2.4 "ECC/CS	6.3-8	GSI-191, Tracking Report	"NEI 04-07" was correctly referred	1

	strainer" 4th paragraph, 1st sentence		MHI Letter No. UAP-HF-11287 Dated 08/31/2011	as "the SE of NEI 04-07"	
MIC-03-06-00054	Table 6.3-2 USI A-43	6.3-31	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer new subsection for addressing Unresolved Safety Issue A-43.	1
MIC-03-06-00055	Table 6.3-3 GSI-191	6.3-33	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer new subsection for addressing GSI-191.	1
MIC-03-06-00056	Table 6.3-4 GL 98-04	6.3-39	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer new subsections for addressing GL 98-04.	1
MIC-03-06-00057	Table 6.3-4 BL 93-02	6.3-41	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer new subsection for addressing BL 93-02.	1
MIC-03-06-00058	Table 6.3-4 BL 95-02	6.3-41	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add statement to refer new subsection for addressing BL 95-02.	1
MIC-03-06-00059	Table 6.3-4 BL 96-03	6.3-42	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated	Add statement to refer new subsection for addressing BL 96-	1

			08/31/2011	03.	
MIC-03-06-00060	Table 6.3-4 GL 2004-02	6.3-43	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Delete referred technical reports from the Table 6.3-4.	1
MIC-03-06-00061	Table 6.3-4 BL 2003-01	6.3-44	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Delete referred technical reports from the Table 6.3-4.	1
MIC-03-06-00062	Table 6.3-5 ECC/CS strainer (Sheet 1 of 3)	6.3-45	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated strainer surface area per train (i.e., 2,754ft^2) Updated design basis debris head loss. (4.0 ft at 120F)	1
MIC-03-06-00063	Table 6.3-5 ECC/CS strainer (Sheet 1 of 3)	6.3-45	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated NPSH available and Design basis NPSH required.	1
MIC-03-06-00064	Table 6.3-5 ECC/CS strainer (Sheet 2 of 3)	6.3-46	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Add Note 3.	1
MIC-03-06-00065	Table 6.3-5 RWSP (Sheet 3 of 3)	6.3-47	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Updated the design temperature of TWSP and calculated peak temperature.	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is "-", the change was not made in a T/R.

pH, corrosive attack of stainless steel alloys used in containment will be insignificant. Similarly, a post-LOCA hydrogen generation (due to material corrosion) is negligible. In addition, the generation of chemical precipitates from aluminum will be minimized. Programmatic controls to limit aluminum in the containment are described in Subsection 6.2.2.3. DCD_06.02.02-63

6.1.2 Organic Materials

With the notable exception of coatings and electrical insulation, organic materials (e.g., wood, plastics, lubricants, asphalt) are not freely available in containment. A primer (e.g., epoxy) typically is applied as a base coating over the steel plate lining of the containment vessel, as well as to structural steel support members. A scuff resistant top coat (e.g., epoxy) is then applied for durability and decontamination considerations. When practical, carbon steel access and support components inside containment (e.g., stairs, ladders, landings, gratings, handrails, ventilation ducts, cable trays) may be hot-dip galvanized. The operating surfaces of components (e.g., valve handwheels, operating handles) are typically factory coated for mechanical durability and resistance to the containment operating environment. These coatings may be dry-powder or water-reduced materials. However, factory application, to sometimes small and complex shapes, under controlled conditions, makes such coatings highly resistant to removal. With rare and minor exception (e.g., protective coatings on trim pieces, faceplates, and covers) coatings used inside containment are applied in accordance with RG 1.54 (Ref. 6.1-12), and meet the applicable environmental qualifications described in Chapter 3, Section 3.11. All organic materials that exist in significant amounts in the containment (e.g., wood, plastics, lubricants, paint or coatings, electrical cable insulation, and asphalt) are identified and quantified in Subsection 6.2.2.3. Coatings not intended for a 60-year service without overcoating should include total overcoating thicknesses expected to be accumulated over the service life of the substrate surface.

Quality assurance programs provide the confidence that safety-related coating systems inside and outside of containment will perform their intended safety functions. This is achieved by controlling procurement, application, and monitoring programs for Service Levels I, II, and III coating systems. Service Level I coating systems satisfy quality requirements provided in ASME NQA-1-1994, ASTM D3843-00, and 10 CFR 50 Appendix B, Criterion IX. Service Level III coating systems satisfy quality requirements provided in ASME NQA-1-1994 and 10 CFR 50, Appendix B, Criterion IX.

The classification of Service Levels for coating systems conforms to guidance provided in RG 1.54 Revision 1 and associated standards.

As stated in RG. 1.54 Revision 1, the scope of the maintenance rule (10 CFR 50.65) includes Safety-Related Structures, Systems, and Components. This also applies to Service Level I protective coatings of any form. Therefore, control and qualification of applied coatings are maintained through monitoring and maintenance programs for protective coating and organic materials, along with adequate implementation of the quality assurance program described above.

Coatings program assures that the effects of protective coatings within scope are monitored, or that its performance is effectively controlled through preventive maintenance. The program includes programmatic bases and guidelines, as well as the

As discussed in Chapter 3, the RWSP is designed as Equipment Class 2, seismic category I, with a maximum operating temperature of ~~250~~270°F. Pressure in the RWSP air space is relieved to the containment atmosphere, but the RWSP is designed to withstand a containment pressure of 9.6 psi. (9.6 psi is the differential pressure between containment atmosphere and the RWSP air space during a LOCA.) The inside walls and floor of the RWSP in which contact with 4,000 ppm boric acid solution are lined with stainless steel clad steel plate. The RWSP ceiling (underside of floor at containment elevation 25 ft. - 3 in.) is not normally in contact with the RWSP boric acid water, but is clad with stainless steel plate. MIC-03-06-00001

The coolant and associated debris from a pipe or component rupture (LOCA), and the containment spray drain into the RWSP through transfer pipes, as shown in Figure 6.2.1-12. The pipes are installed through the RWSP ceiling, ending as openings into the containment floor at elevation 25 ft. - 3 in. Each transfer pipe opening into the containment is protected from large debris by vertical debris interceptor bars that are capped by a ceiling plate. There are ten transfer pipes distributed around the containment at elevation 25 ft. - 3 in, as shown in ~~f~~Figure 6.2.1-16. The debris interceptor, see Figure 6.2.1-12, consists of 6 round vertical rods and 1 top plate that is provided at the transfer piping which collect and return recirculation water to the RWSP. The vertical rods are installed at an interval smaller than the inner diameter of transfer piping. This is to prevent transfer pipe from blockage by debris larger than the inner diameter of the pipe. ~~Since the~~The design basis of postulated debris is defined as “smalls” and all of this debris is ~~considered reachable~~assumed to enter the RWSP in the safety evaluation of the sump performance (Reference 6.2-34). The debris interceptor is not credited to contribute ECC operation, and therefore it is classified as non-safety related, seismic category II component. To minimize containment humidity (due to evaporation from the RWSP), the transfer pipes extend from the containment floor, through the RWSP ceiling to below the normal 100% RWSP water level. MIC-03-06-00002 MIC-03-06-00002

The RWSP vents are installed through the RWSP ceiling and discharge into the containment atmosphere above. The vents act to equalize the RWSP and the containment free volume air pressure, when the SI pumps or CS/RHR pumps take suction and draw down the RWSP water level. The vents consist of five pairs of vents to mix the RWSP air with the containment free volume air during post-LOCA. Each pair of vent pipes terminates below the normal RWSP water level to minimize the release of vaporized RWSP water into the containment atmosphere during normal plant operation.

As shown in Figures 6.2.2-8 and 6.2.2-9, each quadrant of the RWSP contains paired suction piping and the suction pit arrangements for the CS/RHR pumps and SI pumps. The open end of each suction pipe is equipped with a debris strainer (emergency core cooling/containment spray (ECC/CS) strainer) that satisfies the Safety Evaluation (SE) of NEI 04-07, “PWR Sump Performance Evaluation Methodology" and conforms ~~to~~with the guidance in RG 1.82 (Ref. 6.2-23). MIC-03-06-00003

Table 6.2.2-2 presents a comparison of the RWSP recirculation intake debris strainer (ECC/CS strainer) design to the guidance of RG 1.82 (Ref. 6.2-23).

The RWSP also is equipped with two spargers (diffusers), which are large stainless steel right circular cylinders that are capped and drilled; each sparger is located near the bottom of the RWSP at containment 90° (plant east) and 270° (plant west) azimuth. The

spargers receive, and diffuse into the RWSP water, high-energy (but low volume and flow) water from emergency letdown lines and CS/RHR pump suction relief valves. The emergency letdown lines (described in Subsection 6.3.2) are directed to separate RWSP spargers. The RWSP is equipped with an overflow pipe to accommodate a level change from such discharges, as shown in Figure 6.2.1-15.

6.2.2.2.6 ECC/CS Strainers

~~These components are included in the ECCS. Figures 6.2.2-8 and 6.2.2-9 show four independent sets of ECC/CS strainers located in the RWSP. The strainer design includes redundancy, a large surface area to account for potential debris blockage and maintain safety performance, corrosion resistance, and a strainer hole size to minimize downstream effects. Additional design attributes are described in the US-APWR Sump Strainer Performance document (Ref 6.2-34).~~These components are included in the ECCS. Figures 6.2.2-8 and 6.2.2-9 show four separate, independent, and redundant 50% capacity sets of ECC/CS strainers located in the RWSP. Only two of the four safety trains are conservatively assumed for evaluating pump performance during an accident. A passive disk layer type of strainer system with nominal 2,754 ft^2 of surface area per sump (or 5,508 ft^2 for two strainer trains) is applied. A minimum of 2,730 (ft^2) per sump accounted for fabrication tolerance will be constructed in the plant. The strainer is principally constructed of perforated plate with a square flange at the bottom for attachment to the supporting plate, which covers the sump pit. The strainers and supporting plates are constructed of corrosion-resistant stainless steel. The nominal diameter of holes is designed to be equal to or less than 0.066", consistent with the narrowest gap in the systems downstream of the strainer. MIC-03-06-00004

The strainer design (Figures 6.2.2-8 and 6.2.2-9) is composed of modular components, and is consistent with Regulatory Guide (RG) 1.82 (Ref. 6.2-23) guidance as follows (also, see Table 6.2.2-2, "Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements"):

- Four independent sets of strainer systems are provided inside the in-containment refueling water storage pit (RWSP) and are designed to be fully submerged during all postulated events requiring the actuation of the ECCS with a minimum RWSP water level of 1-ft above the top of the strainer,
- The ECC/CS strainers limit debris from entering the safety systems that are required to maintain the post-LOCA long term cooling,
- The design precludes the water that drains into the RWSP from impinging directly on the strainers,
- The strainers are well isolated from postulated pipe break jets and missiles,
- The strainers' large surface area provides low flow rate on the strainer surface, thus minimizing head loss from debris accumulation,
- The perforated plates are designed to prevent flow blockage and to assure core cooling,

- The strainers are constructed of corrosion resistant materials, MIC-03-06-00004
- The strainers are sized to maintain the performance of the safety-related pumps,
- The strainers are designed to meet seismic category I requirements, and
- When operational, the strainers are to be periodically inspected during plant shutdowns.

As described in Chapter 3, the ECC/CS strainers are Equipment Class 2, seismic category I. Principal design features of the strainers are provided in Table 6.3-5. Additional design attributes are described in the US-APWR Sump Strainer Performance document (Ref 6.2-34), Subsection 6.2.2.3 “Design Evaluation,” Table 6.3-5 “Safety Injection System Design Parameters,” and in the associated referenced documents listed in Section 6.2.9 that include References 6.2-36, and 6.2-38. MIC-03-06-00004

6.2.2.2.7 Major Valves

Containment isolation is discussed in Subsection 6.2.4. Control (including interlocks) and automatic features of containment isolation valves are discussed in DCD Chapter 7, Section 7.3.

6.2.2.2.7.1 CS/RHR Pump RWSP Suction Isolation Valve

There is a normally open motor-operated gate valve in each of the four CS/RHR pump suction lines from the RWSP. These valves would remain open during normal and emergency operations. The valves are remotely closed by operator action from the MCR and RSC only if a CSS had to be isolated from the RWSP to terminate a leak or during RHR cooldown operation where the isolation from the RWSP is required. In the pump/valve maintenance, these valves are also closed. The open or closed valve position, for these valves, is indicated in the MCR and RSC. The four CS/RHR pump RWSP suction isolation valves (CSS-MOV-001A, B, C, and D) are Equipment Class 2, seismic category I.

These valves are interlocked and are allowed to open only if the two in-series RHR hot leg suction isolation valves are closed.

6.2.2.2.7.2 Containment Spray Header Containment Isolation Valve

There is a normally closed motor-operated gate valve in each CS/RHR heat exchanger outlet line. These valves are open automatically on receipt of a containment spray signal. The valves can be closed remotely by operator action from the MCR and RSC if containment isolation is required or during RHR cooldown operation where the isolation from the containment spray header is required. The open or closed valve position, for these valves, is indicated in the MCR and RSC. The four containment spray header containment isolation valves (CSS-MOV-004A, B, C, and D) are Equipment Class 2, seismic category I.

These valves are interlocked and are allowed to open only if two in-series RHR hot leg suction isolation valves are closed. In addition, the electrical power for these valves are removed to prevent an inadvertent opening and actuation of containment spray during RHR cooldown operation.

6.2.2.2.7.3 Containment Spray Header Containment Isolation Check Valve

One swing check valve is aligned in each CS/RHR heat exchanger outlet line as containment isolation valve. The containment spray header containment isolation check valve (CSS-VLV-005A, B, C, and D) are Equipment Class 2, seismic category I.

6.2.2.3 Design Evaluation

Because smaller spray droplets fall more slowly and reach equilibrium with vapor more quickly than larger droplets, the US-APWR uses a Sauter mean diameter of 1,000 microns as the assumed droplet size for analysis purposes.

This value is obtained by the following formula:

$\sum (n \times d^3) / \sum (n \times d^2)$ μm

The value of the n and d variables are empirical data obtained using the spray nozzle design shown in Figure 6.2.2-2, where:

n = number of droplets in specified diameter range

d = diameter of droplet

While a given mass of drops at the Sauter mean diameter has the same surface to mass ratio as the actual drop spectrum, the consistency of the surface to mass ratio ensures that the heat transfer rate to heat capacity ratio is correctly approximated. Thus, the Sauter mean diameter of 1,000 microns is conservative and possesses a consistent surface to mass ratio for use in the GOTHIC (Ref. 6.2-1, 6.2-2, 6.2-3) computer analysis code.

Containment spray patterns, containment spray elevation and plane drawings are provided in Figures 6.2.2-5, 6.2.2-6. These drawings demonstrate adequate coverage and overlap.

Table 6.2.2-3 is a failure modes and effects analysis of the CSS and demonstrates sufficient reliability. DCD_06.02.02-55

The containment design heat removal evaluations documented in Subsection 6.2.1.1 includes the effects of the CSS operation (including single failure considerations). Table 6.2.1-5 provides ESF system parameters relating to event sequences such as ECCS and CSS actuation timing. Table 6.2.1-5 also provides both full capacity and partial capacity (used for containment design evaluation) system operation parameters. These evaluations conclude that the acceptance criteria are met, and the CSS design is acceptable. Subsection 6.2.1.1 includes information about the energy content of the

containment atmosphere and the recirculation water during the transients that are evaluated. DCD_06.02.02-55

Information on the integrated energy content of the containment atmosphere and RWSP water as functions of time following the postulated design basis LOCA and the integrated energy absorbed by the structural heat sinks and CS/RHR heat exchangers is provided in the following Tables and Figures:

- Table 6.2.1-12, Distribution of Energy at Selected Locations within Containment for Worst-Case Postulated DEPSG Break
- Table 6.2.1-14, Distribution of Energy at Selected Locations within Containment for Worst-Case Postulated DEHLG Break
- Figure 6.2.1-84, Containment Energy Distribution Transient for DEPSG Break (C_D=1.0)
- Figure 6.2.1-85, Containment Energy Distribution Transient for DEHLG Break (C_D=1.0)

~~The Sump Strainer Performance Evaluation document (Ref. 6.2-34) evaluates parameters described in NEI 04-07 (Ref. 6.2-24). Additional detailed evaluation of these parameters is provided in reference 6.2-34 and are summarized below:~~ MIC-03-06-00005

- ~~Identification of insulation types and coating systems used and restricted in the US-APWR and associated potential for debris generation and differential pressure across the strainer~~
- ~~Break selection criteria and bounding break locations~~
- ~~Debis generation, characterization and transport assumptions associated with affected insulation, coatings, and latent debris~~
- ~~Total strainer head loss associated with fibrous and particulate debris, "chemical effect"~~
- ~~Net Positive Suction Head associated with total strainer head loss, hydraulic head loss of the equipment and piping, including uncertainty margins~~
- ~~Upstream effects including hold up volumes conservative drainage flow path and capacity assumptions~~
- ~~Downstream effects potentially impacting the safety functions associated with pumps, valves, heat exchangers, instrumentation (sensing lines and flow measuring devices), spray nozzles, reactor vessel flow paths. Evaluation of downstream effects is described in the report "Sump Strainer Downstream Effects" (Ref: 6.2-36). As for instrumentation, all connections, by design are either at the horizontal or above.~~

The Sump Strainer Performance (Ref. 6.2-34) and Downstream Evaluation (Ref. 6.2-36) reports address Generic Safety Issue (GSI) 191. The key information essential to address GSI-191 is summarized in the following subsections. DCD_06.02.02-55

6.2.2.3.1 Break Selection

The US-APWR design considers potential pipe breaks in the primary coolant system piping, loss of coolant accident (LBLOCA), and relies on the ECCS sump recirculation for its mitigation. Also, the reactor coolant system (RCS) piping small break LOCAs (SBLOCAs) require ECC/CS sump recirculation. In addition, the secondary side system pipe breaks (i.e., Main Steam and Feed Water (MS/FW)) require sump operation.

The break sizes of the primary and secondary pipe breaks considered are double ended guillotine breaks (DEGB). The basis for this break size selection is to provide the largest volume of debris from insulation and other materials that may be within the region affected by the postulated break. For the break selection, the following break location criteria, which are recommended in the SE of NEI 04-07 and comply with RG 1.82, are considered:

1. Pipe break in the RCS or MS/FW with the largest potential for debris;

2. Large breaks with two or more different types of debris;

3. Breaks with the most direct path to the sump;

4. Large breaks with the largest potential particulate debris to insulation ratio by weight, and;

5. Breaks that generate a "thin-bed," high particulate with 1/8-inch thick bed.

Ref. 6.2-34 applies the criteria above and concludes that the MCP break, 31-inch ID, is the limiting break location in terms of debris generation, transport and head loss for the strainer.

6.2.2.3.2 Debris Source Term

DCD_06.02.02-44

The debris source term of the US-APWR that challenges sump performance consists of non-chemical debris (insulation, coatings, latent fiber, sludge, miscellaneous debris such as stickers, tape, etc.) and chemical debris (including aluminum) in the containment. The chemical debris that would precipitate during long-term core cooling is determined by the US-APWR chemical effects tests (Ref. 6.2-38). Also, refer to Section 6.1.1.2.3, “Compatibility of Construction Materials with Core Cooling Coolants and Containment Spray,” which denotes that the use of aluminum within containment is limited to minimize the generation of chemical debris during an accident.

The principal insulation used in the containment is reflective metal insulation (RMI). RMI is used for the reactor vessel, steam generators, pressurizer, primary and secondary main and branch lines, and other equipment and piping that require insulation in areas that are potentially subject to jet impingement from high-energy line breaks (HELB). The use of fibrous insulation is eliminated from the ZOI. Pre-formed, buoyant-type insulation is

used as anti-sweat insulation chiller piping. The buoyant insulation is not considered to challenge strainer performance for plants with fully submerged strainers per the SE of NEI 04-07 since this debris would not transport to the strainer, and therefore it is excluded from debris source. DCD_06.02.02-44

Insulation is a purchased product and its use is controlled to meet the parameters provided in the US-APWR Sump Strainer Performance document (Ref: 6.2-34).

Methods used to attach insulation to piping and components in containment are as follows: DCD_06.02.02-55

- Reflective Metal Insulation (RMI) consists of pre-fabricated units (metal jackets) engineered as integrated assemblies to fit the surface that is being insulated. The RMI insulation is supported by the insulated surface or by existing lugs or brackets. Welding is not allowed to attach insulation to the insulated surface. The metal jackets are provided with quick-release latches, closure handles and positive-lock type latches as required.

- Anti-sweat Insulation forms a system comprised of pre-fabricated units (modules or panels) engineered as integrated assemblies to fit the insulated surface. This insulation is held in place with sealant or equivalent.

As discussed in Subsection 6.1.2, DBA-qualified epoxy coatings are applied in the containment in accordance with RG 1.54 (Ref. 6.2-41).

~~The available and required NPSH at the inlet of the CS/RHR and SI pumps are provided in Table 6.2.2-1. Thus, adequate NPSH is provided to the CS/RHR and SI pumps, including margin.~~ MIC-03-06-00005

~~Table 6.2.2-1 presents values used in the calculations described above.~~

Programmatic controls will be established to ensure that potential sources of debris introduced into containment (e.g., insulation, coatings, foreign material, aluminum), and plant modifications, will not adversely impact the ECC/CS recirculation function. ~~Programmatic control~~These programmatic controls will be established consistent with guidance provided in RG 1.82, Rev. 3 (Ref. 6.2-23), in order to ensure that potential quantities of post-accident debris are maintained within the bounds of the analyses and design bases that support Emergency Core Cooling (ECC) and Containment Spray (CS) recirculation functions and to ensure that the long term core cooling requirements of 10 CFR 50.46 are met. ~~The following is a summary of the programmatic controls that will be implemented to ensure that activities are conducted in a manner that ensures ECC/CS strainer operation, and limits the quantity of latent (unintended dirt, dust, paint chips, and fibers) and miscellaneous (tape, tags, stickers) debris inside containment:~~Table 6.2.2-2 presents a comparison of the RWSP sump strainer design to the guidance of RG 1.82. Also, refer to Subsection 6.2.2.3.12 and 6.2.2.3.13, "Downstream Effects – In-Vessel/Ex-Vessel." DCD_06.02.02-63 MIC-03-06-00006 MIC-03-06-00006

The following is a summary of the programmatic controls that will be implemented to ensure that activities are conducted in a manner that ensures ECC/CS strainer operation,

and limits the quantity of latent (unintended dirt, dust, paint chips, and fibers) and miscellaneous (tape, tags, stickers) debris inside containment: MIC-03-06-00006

- Preparation of a cleanliness, housekeeping and foreign materials exclusion program. This program addresses latent and miscellaneous debris inside containment (Ref. 6.2-40). An acceptance criterion below the conservative assumption of 200 lb for latent debris (unintended dirt, dust, paint chips, and fibers which principally consist of fiber and particulate debris) inside containment will be established consistent with MUAP-08001-P Sump Strainer Performance Evaluation (Ref.6.2-34).~~inside containment will be established consistent with MUAP-08001-P. Sump Strainer Performance Evaluation (Ref.6.2-34).~~ The program will also ensure that the quantity of miscellaneous debris in containment will be limited such that the allocated 200 ft^2 strainer surface area per sump ~~uncertainty~~margin per MUAP-08001-P, will be met to ensure ECC/CS strainer operation. A cleanliness, housekeeping and foreign materials exclusion program will be established by the COL Applicant. MIC-03-06-00006

- Procedures will be implemented to ensure administrative controls ~~and regulatory/quality requirements for plant modifications and temporary changes that include consideration of materials introduced into the containment that could contribute to sump strainer blockage.~~are established for regulatory and quality requirements, for plant modifications and temporary changes, which include consideration of debris source term (i.e., RMI insulation, fiber insulation, inventory of: aluminum, latent debris and miscellaneous debris) introduced into the containment that could contribute to sump strainer blockage. The procedure will ensure that the quantity of RMI and fiber insulation within the ZOIs will be consistent with the design basis debris described in the Table 6.2.2-4, and will ensure that the aluminum in containment exposed to containment spray water is limited to equal or less than 810ft^2. Included will be requirements for controlling temporary modifications to systems, structures and components (SSCs) in a manner which ensures compliance with 10 CFR 50.46. Future plant modifications will be evaluated in accordance with the requirements of 10 CFR 50.59 and 10 CFR 52.63. MIC-03-06-00006

- Maintenance activities, including associated temporary changes, will be subject to the provisions of 10 CFR 50.65(a)(4), which requires a licensee to assess and manage the increase in risk that may result from the proposed maintenance activities, prior to performing the activities. These activities may be shown to be acceptable with respect to the ECC/CS strainers by any of the following means:

  1. performing the maintenance activities when the ECC/CS strainers are not required to be operable and restoring conditions consistent with the design bases prior to re-establishing operability; MIC-03-06-00006

  2. conducting a deterministic evaluation that concludes the specific activities do not create a condition that adversely affects strainer performance; MIC-03-06-00006

3. ~~control of~~controlling the maintenance activities within the bounds established by approved programs that assure no adverse impact (e.g., activities do not result in exceeding limits established for temporary use of material inside containment), and; MIC-03-06-00006

4. performing a risk assessment for a specific activity. MIC-03-06-00006

Combined License Applicant Item COL 17.6(1) addresses development and implementation of the maintenance rule program in accordance with 10 CFR 50.65.

- A containment coating monitoring program will be implemented in accordance with the requirements of Regulatory Guide 1.54, Revision 2 (Ref. 6.2-41). The coatings program is described in Subsections 6.1.2 and 6.2.2.3.9. The chemical effects program is covered in Subsection 6.2.2.3.10 (Ref. 6.2-38). MIC-03-06-00006

- ~~Containment coating monitoring program will be implemented in accordance with the requirements of Regulatory Guide 1.54, Revision 1. Coatings program is described in Subsection 6.1.2.~~

~~Table 6.2.2-3 is a failure modes and effects analysis of the CSS and demonstrates sufficient reliability.~~

~~The containment design heat removal evaluations documented in Subsection 6.2.1.1 includes the effects of the CSS operation (including single failure considerations). Table 6.2.1-5 provides ESF system parameters relating to event sequence such as ECCS and CSS actuation timing. Table 6.2.1-5 also provides both full capacity and partial capacity (used for containment design evaluation) system operation parameters. These evaluations conclude that the acceptance criteria are met. Therefore, the CSS design is acceptable. Subsection 6.2.1.1 includes information about the energy content of the containment atmosphere and the recirculation water during the transients that are evaluated.~~

~~Information on the integrated energy content of the containment atmosphere and RWSP water as functions of time following the postulated design basis LOCA and the integrated energy absorbed by the structural heat sinks and CS/RHR heat exchangers is provided in the following Tables and Figures :~~

- ~~Table 6.2.1-12, Distribution of Energy at Selected Locations within Containment for Worst-Case Postulated DEPSG Break~~

- ~~Table 6.2.1-14, Distribution of Energy at Selected Locations within Containment for Worst-Case Postulated DEHLG Break~~

- ~~Figure 6.2.1-84, Containment Energy Distribution Transient for DEPSG Break (C_D=1.0)~~

- ~~Figure 6.2.1-85, Containment Energy Distribution Transient for DEHLG Break (C_D=1.0)~~

6.2.2.3.3 Debris Generation

DCD_06.02.02-55

The SE of NEI 04-07 guidance report (GR) (Ref. 6.2-24) and the NRC letters to NEI (Ref. 6.2-46 and 6.2-47) are used to determine the zone of influence (ZOI) for generating debris. The diameter of the ZOI for RMI debris generation is 2 inside diameters of the worst-case break line and 4 inside diameters for coating debris. For the sump performance evaluation, the design basis debris quantities are based on the following:

- For RMI insulation, all insulation on a cross-over leg (CO/L) is considered to generate debris.
- No design fiber insulation debris is generated within the ZOI. As an operational margin for future plant modification, fiber insulation debris is assumed and included in the strainer design.
- For coating debris, the generated debris volume is based on the surface area for the ZOI from the main coolant pipe break and a conservative coating thickness. As an operational margin for the plant, an additional amount of coating debris is assumed and included in the strainer design.

For latent debris, 200 lbs of fiber and particulate is applied, as recommended in the guidance (Ref. 6.2-24). Specific material types for miscellaneous debris, such as tapes, tags or stickers, reaching the strainer are not specified. Instead, a 200 ft^2 penalty of sacrificial strainer surface area per sump is considered as a margin for future detailed design and installation. These debris sources are controlled by the foreign material exclusion program that will be established by the plant owner.

The design basis debris for sump strainer performance is summarized in Table 6.2.2-4. More detailed information is provided in the Sump Strainer Performance Evaluation document (Ref. 6.2-34).

6.2.2.3.4 Debris Characteristics

The US-APWR assumes that all fiber debris within the ZOI is “fines”. The specification of debris characteristics used for the sump performance evaluation is determined based on the SE of NEI 04-07. (Ref.6.2-24). The SE classified fibrous debris into four groups as follows:

1. fines that remain suspended,
2. small piece debris that are transported along the floor,
3. large piece debris with the insulation exposed to potential erosion, and
4. large debris with the insulation undamaged but still protected by a covering and thereby preventing erosion.

Fine fiber debris is considered suspended and transportable to the strainer. The Post-LOCA 30-day erosion of small fiber debris into fines does not require consideration, because all fiber debris is already assumed to be fine. DCD_06.02.02-55

RMI insulation debris is assumed to consist of 75 percent small fines and 25 percent large pieces, in accordance with the SE of NEI 04-07. (Ref 6.2-24). The RMI debris is considered as “non-suspended” in the sump pool due to its specific gravity. For RMI debris characterization, the effect of erosion during the 30 days of Post-LOCA operation is not required.

Coating debris within the ZOI is assumed to consist of 100 percent fines, in accordance with the SE of NEI 04-07. (Ref. 6.2-24). The effect of erosion is not considered for coating debris because coating debris is defined as fines.

The latent debris characteristics are based on the SE of NEI GR (Ref 6.2-24). Latent fiber comprises 15 percent (by mass) of the total latent debris loading (i.e., 200 lbs). The latent fiber is comparable to fiberglass “NUKON” insulation and is considered to be fines, as discussed above. The remainder of the latent debris consists of particulate debris, such as latent dust and dirt. Size distribution for latent particulate debris is based on the guidance found in NUREG CR-6877 (Ref.6.2-39). The effect of erosion is not required to be considered for latent debris.

6.2.2.3.5 Debris Transport

Debris transport is the estimation of the fraction of debris that is transported from debris sources (break location) to the sump strainer. The US-APWR assumes that all debris generated in the containment is transported to operable sumps. No debris entrapment in containment is credited in the debris transport evaluation.

The US-APWR has four ECC/CS trains with an independent strainer for each train. The design requires a minimum of two trains in operation, thereby assuming one train is out of service due to on-line maintenance and another one has a single failure. Therefore, transported debris in the sump pool is assumed to be distributed to two, three, or four sumps. The number of operable sumps during LOCA is a key parameter to determine the debris distribution to each sump. This logic establishes the conditions for subsequent evaluations.

For the strainer head loss evaluation, the number of available sumps should maximize the head loss, i.e., assume only two operable sumps. For the bypass debris, the number of operable sumps should maximize the amount of bypass debris, i.e., assume four operating sumps. A more detailed discussion is prepared in the Sump Strainer Performance document (Ref 6.2-34).

6.2.2.3.6 Debris Head Loss

The design basis strainer head loss (i.e., 4.0 ft of water at 120º F) is established to evaluate available Net Positive Suction Head (NPSH) of ECC/CS pumps (See section 6.2.2.3.7). The prototypical strainer head loss tests (Ref. 6.2-34) support the design basis strainer head loss with margin.

6.2.2.3.7 Net Positive Suction Head

DCD_06.02.02-55

From the Sump Strainer Performance Evaluation (Ref. 6.2-34), available Net Positive Suction Head (NPSH) was calculated using the most limiting conditions applicable to all events. For the NPSH available calculation, the containment pressure is assumed equal to the initial containment pressure prior to the start of the accident for low temperatures (sump fluid temperatures below the saturation temperature corresponding to the initial containment pressure). At low temperatures, this methodology fulfills the requirements of RG 1.1 & RG 1.82 that the NPSH available be evaluated without crediting any increase in containment pressure resulting from accident conditions. This approach ensures that sufficient containment pressure is available under all accident conditions and that defense-in-depth is maintained by preserving the independence of systems designed to prevent accidents and those designed to mitigate the effects of accidents.

For temperatures higher than this initial saturation pressure, the containment pressure is conservatively assumed to be equal to the sump fluid vapor pressure. This assumption is independent from the calculated increases in containment accident pressure; instead, the assumed containment pressure is dependent on the RWSP fluid temperature itself. No containment overpressure above the fluid saturation pressure is credited (i.e., the containment pressure is assumed to equal the saturation pressure corresponding to the sump water temperature). The contribution to plant risk from this assumption is discussed further in Section 19.1.7.

In accordance with the above methodology, the NPSH available exceeds the NPSH required for all expected sump temperatures. Therefore, the RWSP strainer and US-APWR design provide sufficient available NPSH, with adequate strainer submergence, to ensure reliable operation of ECCS and CSS pumps. Further details and conservative assumptions are described in the Sump Strainer Performance Evaluation document (Ref. 6.2-34).

6.2.2.3.8 Vortexing, Sump Fluid Flashing and Deaeration

Vortexing, Sump Fluid Flashing, and Deaeration are additional issues associated with the NPSH calculation and sump strainer performance that are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34). These effects are analyzed for short-term, interim, and long-term post-LOCA recirculating conditions.

For vortexing, the strainer meets the NRC guidance for vortex prevention for advanced strainer configurations, based on minimum submergence. Furthermore, the strainer design is expected to exceed the level of vortex prevention provided by minimum submergence alone, due to the low approach velocities, small hole size of the perforated plate, and overall stacked-disc geometry. This has been validated by testing (Ref 6.2-34).

For sump fluid flashing, the strainer is designed with sufficient submergence to preclude the occurrence the two-phase flow at the debris bed which can result in an unacceptable increase in strainer head losses. Air ingestion due to sump fluid flashing is not expected to occur, and therefore it will not adversely affect pump performance. (Ref. 6.2-34).

For deaeration, air solubility at the strainer and pump elevations was evaluated. Significant levels of deaeration (i.e., void fraction) were not expected at either elevation

(Ref 6.2-34). The air ingestion due to deaeration is not expected to adversely affect strainer performance or pump performance. The design basis NPSH requirement of the pumps is defined appropriately to account for the void fraction. DCD_06.02.02-55

6.2.2.3.9 Coatings Evaluation

The US-APWR utilizes a DBA qualified and acceptable coating system in containment. These coating systems meet the requirements of Service Level-I coatings categorized in USNRC Regulatory Guide 1.54 Revision 1 (Ref, 6.2-41) and the related ASTM requirements described in RG 1.54. The criteria for those coating systems are contained in ANSI N101.2, "Protective Coatings (Paints) for Light Water Nuclear Reactor Containment Facilities" (Ref. 6.2-42), and its successor document, ASTM D 3911, "Standard Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions" (Ref. 6.2-43). Only the epoxy type coatings (including primer and top coat) are used (refer to Section 6.1.2).

6.2.2.3.10 Chemical Effects Test

Chemical effects testing was performed for the US-APWR post-LOCA chemistry conditions to evaluate the transition temperature at which chemical precipitates are expected to form (Refs. 6.2-38, 6.2-44 and Appendix C of Ref. 6.2-34 "Evaluation of Chemical Debris (for head loss)"). Based on the results of this test, the US-APWR sump strainer evaluation credits no precipitation of chemical debris above 150°F. This transition temperature is further confirmed analytically as discussed in the Sump Strainer Performance Evaluation (Ref. 6.2-34).

6.2.2.3.11 Upstream Effect

Evaluation of the upstream effects is performed to identify flow paths leading to the RWSP which could become blocked and potentially hold-up the return water (creating ineffective pools) and, therefore, challenge the RWSP minimum water level evaluation. A partial sectional view of the RWSP concrete structure is shown in Figure 6.2.1-8. (Section 6.2.2.2.5 describes the RWSP function.) An outline of the paths that fluids from the ECCS and CSS would follow in a post-LOCA event and the formation of ineffective pools and potential holdup areas within the containment are shown in Figure 6.2.1-9. Figure 6.2.1-10 shows the volume of ineffective pools. Two return pathways were identified as possible choke points for the returning flow: 1) refueling cavity drains and 2) transfer pipes of the RWSP. The RWSP water level is shown in Figure 6.2.1-11. Also see Figures 6.2.1-12, 6.2.1-13, 6.2.1-14, and 6.2.1-15 for descriptions of transfer pipe debris interceptors, refueling cavity drain lines, and overflow lines. For the reactor cavity drains, the following gratings are credited for preventing ¡§large debris¡¨ from reaching and potentially blocking the cavity drains:

- Grating inside the secondary shield wall at EL. 55'-1" (Loop-A,B,C, and D);
- Grating inside the secondary shield wall at EL. 73'-1" (Loop-A,B,C, and D); and,
- Grating at upper core internal laydown pit (in the refueling cavity)

The RWSP transfer pipes are protected by debris interceptors with spacing intervals that are smaller than the inner diameter of the transfer pipes (see Figure 6.2.1-12). The number and size of the reactor cavity drains and RWSP transfer pipes are shown to have sufficient drain capacity per the Sump Strainer Performance Evaluation (Ref. 6.2-34). Besides the transfer pipes and refueling cavity drains, no other drains or narrow pathways are credited for providing make-up to the RWSP. Floor drain piping which directs fluid to the containment sump, such as the SG compartment floor and the operating floor, is assumed to become blocked. Blockage of these floor drains and the effect on calculated holdup-volumes is discussed in further detail in the Sump Strainer Performance Evaluation (Ref. 6.2-34). DCD_06.02.02-55

The design basis minimum water level of the RWSP is 4.0 ft above the RWSP floor as shown in Figure 6.2.1-11, “RWSP Water levels.” The minimum water level for a SBLOCA is bounded by the LBLOCA level.

6.2.2.3.12 Downstream Effects - Ex-Vessel

Assessment of the downstream effects, caused by post-LOCA operation with debris laden fluid for the US-APWR systems and components downstream of the sump strainer, is discussed in the Sump Strainer Downstream Effects report (Ref. 6.2-36) and Chapter 4, “Downstream Effects” of Ref. 6.2-34, “Sump Strainer Performance.”

Downstream systems and components include the Emergency Core Cooling System, Containment Spray System and the reactor core (see Subsection 6.2.2.3.13). Evaluation of the ECCS, CSS and their components concludes that these systems are fully capable of performing their intended functions under post-LOCA operating conditions. That is, the ECCS and CSS are fully capable of providing adequate core cooling to ensure the reactor core is maintained in a safe, stable condition following a LOCA.

6.2.2.3.13 Downstream Effects - In-Vessel

The US-APWR plant is designed to facilitate core cooling during a LOCA. Some portions of the chemical precipitates, fibrous and particulate debris generated in the containment vessel during a LOCA are prevented from flowing downstream into the reactor core. However, some of the debris may bypass the sump strainers and ultimately reach the reactor core. Due to this possibility, sump strainer downstream effects were assessed per Ref. 6.2-36. In this report, the evaluation of the effect of downstream debris build-up on long term core cooling demonstrates that the maximum temperature at the fuel cladding surface is below the acceptance temperature. This report also shows that chemical induced local blockages, or scale formation, on the fuel cladding surface of the reactor fuel, will not affect adequate decay heat removal capability.

Cladding temperatures are maintained below those required by Section 50.46 of Title 10 of the Code of Federal Regulations (10 CFR) and Ref. 6.2-48. Therefore, the ECCS and CSS are fully capable of providing adequate core cooling to ensure the reactor core is maintained in a safe, stable condition following a LOCA.

6.2.2.3.14 Sump Structural Analysis

DCD_06.02.02-55

The US-APWR strainer design by PCI, Sure-Flow Strainer (SFS), is based on proven design principles that were implemented in various operating plants. A description of the strainers is provided in Sub-section 6.2.2.2.6, “ECC/CS Strainers.” An evaluation of the structural components of the Emergency Core Cooling (ECC) and Containment Spray (CS) Systems sump strainer assembly was performed (Ref. 6.2-49).

The strainers consist of a series of perforated plate disks “sandwiched” onto a central core tube with gap spacers, tension rods and seismic rods to keep the required spacing between disks and maintain the stability of the structure (see Figure 1 of Reference 6.2-49). The ECC/CS sump strainer assembly is composed of the following two sub-assemblies:

1. A strainer stack assembly is composed of 21 individual disks fabricated from perforated stainless steel sheet and bolted together in vertical stacks. The disks are separated by spacers to form a stacked disk configuration. Each strainer stack has an interior core tube which channels the flow of water down to the underlying plenum. There are 9 vertical strainer stacks per sump, and each is supported by its own stainless steel plenum assembly. See Figures 3 and 8 of Reference 6.2-49.

2. A stainless steel plenum for each sump spans the top of the sump opening and provides structural support for the strainer stacks. The plenum also serves to direct the flow from each of the nine strainer stacks to the sump opening. The plenum fits tightly to the containment floor to form a seal and prevent debris from entering the sump.

Analysis of the strainer assembly was performed by using elastic methods for the defined loads. The structural qualification of the strainer assembly was performed using a combination of manual calculations and finite element analyses. The allowable stresses are primarily based on the ASME Code (Ref. 6.2-50) and are supplemented, as required, for stresses induced by special components or loading conditions. The strainer assemblies are considered part of the pressure boundary, Equipment Class 2, for the ECC and CSS systems because they function to prevent debris from entering these systems.

Equipment Class 2 components are analyzed in accordance with the ASME Code, Section III, Class 2 rules. Therefore, the detailed strainer evaluations were performed using the rules of the ASME Boiler and Pressure Vessel Code, Class 2 Components, as presented in ASME Section III, Division 1, Subsection NC. The structural support components were evaluated as component supports per Subsection NF-3350. The Strainer Stress Report (Ref. 6.2-49) concluded that all components of the sump strainer are in compliance with the requirements of the ASME Code, 2001 edition, up to and including the 2003 Addenda (Ref. 6.2-50).

6.2.2.4 Tests and Inspections

Chapter 14, Section 14.2 “Initial Plant Test Program,” is organized and conducted to develop confidence that the plant operates as designed. The initial test program verifies

provided in NEI 94-01 (Ref. 6.2-31), as modified and endorsed by the NRC in RG 1.163(Ref. 6.2-30). The results of preoperational and periodic Type A, Band C tests must be documented to show that the performance criteria for leakage have been met. The comparison to previous results of the performance of the overall containment system and of individual components within it must be documented to show that the test intervals established for the containment system and components within it are adequate.

6.2.6.5 Special Testing Requirements

The US-APWR does not have a secondary containment or a sub-atmospheric primary containment, therefore there are no special testing requirements in addition to the requirements of Subsections 6.2.6.1 through 6.2.6.4 above.

6.2.7 Fracture Prevention of Containment Pressure Vessel

Ferritic containment pressure boundary materials include the ferritic portions of the containment vessel and all penetration assemblies or appurtenances attached to the containment vessel; all piping, pumps and valves attached to the containment vessel, or to penetration assemblies out to and including the pressure boundary materials of any valve required to isolate the system and provide a pressure boundary for the containment function.

Ferritic containment pressure boundary materials meet the fracture toughness criteria and requirements for testing identified in Article NE-2000 of Section III, Division 1 (Ref. 6.2-32) or Article CC-2000 of Section III, Division 2 of the ASME Code (Ref. 6.2-33).

6.2.8 Combined License Information

Any utility that references the US-APWR design for construction and Licensed operation is responsible for the following COL items:

COL 6.2(1) Deleted

COL 6.2(2) Deleted

COL 6.2(3) Deleted

COL 6.2(4) Deleted

COL 6.2(5) Preparation of a cleanliness, housekeeping and foreign materials exclusion program is the responsibility of the COL Applicant. This program ~~addresses other debris sources such as latent debris inside containment. This program minimizes foreign materials in the containment.~~will be established to limit 200lbs of latent debris, and to limit the allocated 200ft2 of miscellaneous debris per sump.

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COL 6.2(6) Preparation of administrative procedures is the responsibility of the COL Applicant. The procedures will ensure that RMI and fiber insulation debris within ZOIs will be consistent with the design basis debris specified in the Table 6.2.2-4, and will ensure that the aluminum in containment exposed to containment spray water is limited to equal or less than 810ft^2. MIC-03-06-00008

COL 6.2(7) Deleted

COL 6.2(8) The COL Applicant is responsible for identifying the implementation milestone for the containment leakage rate testing program described under 10 CFR 50, Appendix J.

COL 6.2(9) Deleted

COL 6.2(10) Deleted

6.2.9 References

6.2-1 GOTHIC Containment Analysis Package User Manual, Version 7.2a(QA), NAI 8907-02, Rev. 17, Numerical Applications Inc., Richland, WA, January 2006.

6.2-2 GOTHIC Containment Analysis Package Technical Manual, Version 7.2a(QA), NAI 8907-06, Rev. 16, Numerical Applications Inc., Richland, WA, January 2006.

6.2-3 GOTHIC Containment Analysis Package Qualification Report, Version 7.2a(QA), NAI 8907 09, Rev. 9, Numerical Applications Inc., Richland, WA, January 2006.

6.2-4 LOCA Mass and Energy Release Analysis Code Applicability Report for US-APWR, MUAP-07012-P-A Rev. 2 (Proprietary) and MUAP-07012-NP Rev. 2 (Non-Proprietary), June 2009.

6.2-5 Letter from Gerald T. Bischof (Virginia Electric and Power Company) to United States Nuclear Regulatory Commission dated November 6, 2006, Transmittal of Approved Topical Report DOM-NAF-3 NP-A, "GOTHIC Methodology for Analyzing the Response to Postulated Pipe Ruptures inside Containment." ADAMS Accession No. ML063190467.

6.2-6 Schmitt, R.C., et al., Simulated Design Basis Accident Tests of the Carolinas Virginia Tube Reactor Containment Final Report, IN-1403, Idaho Nuclear Corporation, Idaho Falls, ID, 1970.

6.2-7 Design Report for the HDR Containment Experiments V21.1 to V21.3 and V42 to V44 with Specifications for the Pre-Test Computations, Report No. 3.280/82, January, 1982.

6.2-21 Construction Testing and Examination, Article CC-5000, ASME Code Section III, Division 2, American Society of Mechanical Engineers, 2004.

6.2-22 Structural Integrity Test of Concrete Containments, Article CC-6000, ASME Code Section III, Division 2, American Society of Mechanical Engineers, 2004.

6.2-23 U.S. Nuclear Regulatory Commission, Water Sources for Long-Term Recirculation Cooling Following a Loss-of-Coolant-Accident, Regulatory Guide 1.82, Rev. 3, November 2003.

6.2-24 Pressurized Water Reactor Sump Performance Evaluation Methodology, Nuclear Energy Institute, NEI 04-07 Volume 1 and 2, including the NRC's Safety Evaluation, December 2004. MIC-03-06-00009

6.2-25 Inservice Testing Requirements, Title 10, Code of Federal Regulations, 10 CFR 50.55a(f), Nuclear Regulator Commission, U.S., Washington, DC, January 2007.

6.2-26 U.S. Nuclear Regulator Commission, Initial Test Programs for Water-Cooled Nuclear Power Plants, Regulatory Guide 1.68, March 2007.

6.2-27 U.S. Nuclear Regulatory Commission, Standard Review Plan for the Review of Safety Analysis Reports for Nuclear Power Plants, NUREG-0800, 6.2.4 Containment Isolation System Rev. 3, March 2007.

6.2-28 Primary Reactor Containment Leakage Testing for Water-Cooled Power Reactors, Title 10 Code of Federal Regulations Part 50, Appendix J, U.S. Nuclear Regulatory Commission, January 2007 Edition.

6.2-29 U.S. Nuclear Regulatory Commission, Control of Combustible Gas Concentrations in Containment, Regulatory Guide 1.7, Rev. 3, March 2007.

6.2-30 U.S. Nuclear Regulator Commission, Performance-Based Containment Leak-Test Program, Regulatory Guide 1.163, September 1995.

6.2-31 Industry Guideline for Implementing Performance-Based Option of 10 CFR Part 50, Appendix J, Nuclear Energy Institute, NEI 94-01, July 1995.

6.2-32 Material, Article NE-2000, ASME Code Section III, Division 1, American Society of Mechanical Engineers, July 2006.

6.2-33 Material, Article CC-2000, ASME Code Section III, Division 2, American Society of Mechanical Engineers, July 2005.

6.2-34 US-APWR Sump Strainer Performance, MUAP-08001-P Rev. 3 (Proprietary), and MUAP-08001-NP Rev. 3 (Non-Proprietary), November 2010.

6.2-35 Containment System Leakage Testing Requirements, American National Standards Institute/American Nuclear Society, ANSI/ANS-56.8-1994, August 1994.

6.2-36 US-APWR Sump Strainer Downstream Effects, MUAP-08013-P Rev. 1 (Proprietary), and MUAP-08013-NP Rev. 1 (Non-Proprietary), January 2011.

6.2-37 US-APWR Probabilistic Risk Assessment, MUAP-07030-P Rev.1 (Proprietary), September 2008.

6.2-38 US-APWR Sump Debris Chemical Effects Test Result, MUAP-08011-P Rev.0 (Proprietary), November 2008. DCD_06.02.02-55

6.2-39 Characterization and Head-Loss Testing of Latent Debris from Pressurized Water Reactor Containment Buildings, NUREG/CR-6877, USNRC.

6.2-40 NRC Staff Review Guidance Regarding GL 2004-02 Closure in the Area of Strainer Head Loss and Vortexing, March 2008, USNRC, NRR.

6.2-41 Service Level I, II, and III Protective Coatings Applied to Nuclear Power Plants, Regulatory Guide 1.54 Revision 1, July, 2000, USNRC.

6.2-42 Protective Coatings (Paints) for Light Water Nuclear Reactor Containment Facilities, ANSI N101.2.

6.2-43 Standard Test Method for Evaluating Coatings Used in Light-Water Nuclear Power Plants at Simulated Design Basis Accident (DBA) Conditions, ASTM D 3911.

6.2-44 WCAP-16530-NP, Topical Report "Evaluation of Post-Accident Chemical Effects on Containment Sump Fluids to Support GSI-191 (ML073521072).

6.2-45 U.S. Nuclear Regulatory Commission, Regulatory Guide 1.54, Service Level I, II, and III Protective Coatings Applied to Nuclear Power Plants, Revision 2.

6.2-46 Letter from William H. Ruland (NRR) to Alexander Marion (NEI) dated April 6, 2010, Revised Guidance regarding Coatings Zone of Influence for Review of Final Licensee Responses to Generic Letter 2004-02, Potential Impact of Debris Blockage on Emergency Recirculation during Design Basis Accidents at Pressurized Water Reactors. (ML100960495)

6.2-47 Letter from William H. Ruland (NRR) to Alexander Marion (NEI) dated July 29, 2010, Draft version of Table 3-2 for protective coating ZOIs including NEI 04-07. (ML100900172)

6.2-48 Letter from Thomas O. Martin (NRR) to J.A. Gresham (WEC) dated July 14, 2006, Nuclear Regulatory Commission Response to Westinghouse Letter LTR-NRC-06-46 regarding Pressurized Water Reactor (PWR) Containment Sump Downstream Effects. (ML062070451)

6.2-49 US-APWR Sump Strainer Stress Report, MUAP-08012-NP (R1), March 2011.

6.2-50 ASME Boiler & Pressure Vessel Code, Section III, Division 1, 2001 edition, up to and including 2003 Addenda

Table 6.2.1-3 RWSP Design Features

Parameters	Value	
Nominal Liquid Surface Area	4985 ft^2	
Normal Liquid Volume (Water volume of 96 % water level excluding water below 0% level)	~~584,000 gallons~~76,600 ft^3 (573,000 gallons)	DCD_06.02.02-64
Return Water on the Way to RWSP (During a postulated accident)	~~137,000 gallons~~18,200 ft^3 (136,000 gallons)	DCD_06.02.02-64
Ineffective Pool	~~297,000 gallons~~41,300 ft^3 (309,000 gallons)	DCD_06.02.02-64
Minimum Liquid Volume	~~149,000 gallons~~17,100 ft^3 (128,000 gallons)	DCD_06.02.02-64

Table 6.2.1-5 Engineered Safety Feature Systems Information (Sheet 1 of 2)

US APWR Specification	Value	
	Full Capacity	Value Used for Containment Design Evaluation
I. Passive Safety Injection System		
A. Number of Accumulators	4	4
B. Pressure, psig	695	586
II. Active Safety Injection Systems		
A. High Head Injection System (HHIS)		
1. Number of Lines	4	2
2. Number of Pumps	4	2
3. Flow Rate, gpm/train *	1,540	1,259
4. Response Time, sec (after analytical limit of SI signal reached)	N/A	118
III. Containment Spray System (CSS)		
A. Number of Lines	4	2
B. Number of Pumps	4	2
C. Number of Headers	1	1
D. Flow Rate, gpm	9,800 (4 pumps)	5,290 (2 pumps)
E. Response Time, sec (after analytical limit of SI signal reached)	N/A	243
IV. Refueling Water Storage Pit (RWSP)		
A. Liquid volume. Gallons	~~651,000~~654,000	329,000
B. Liquid surface area ,ft^2	4,985	Interface Area is Ignored
V. Containment		
A. Free Volume (Air Volume), ft^3	2,800,000	2,743,000

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Notes:
* HHIS flow rate is the value when RCS pressure is at 0psig.
Hot leg switch-over is conservatively not assumed, which leads to ignoring steam condensation with the hot leg injection.

Table 6.2.2-1 Input Values Employed in CSS Evaluation Calculations

CSS SPRAY NOZZLES	
Quantity	348
Type	Ramp Bottom, 0.375 in orifice
Spray Pattern	Hollow Cone
Flow per Nozzle	15.2 gpm at 40 psig
Material	Stainless steel
CS/RHR PUMP NPSH EVALUATION	
~~$h_{Static\ Head}$~~	~~29.7 ft.~~
~~$h_{line\ loss}$~~	~~7.1 ft.~~
~~$h_{ECC/CS\ strainer}$~~	~~≤4.7 ft. Note 1~~
$NPSH_{available}$	~~17.9 ft.~~20.9 ft. Note1
Design-basis $NPSH_{required}$	~~16.4 ft.~~19.7 ft.
SI PUMP NPSH EVALUATION	
~~$h_{Static\ Head}$~~	~~29.7 ft.~~
~~$h_{line\ loss}$~~	~~3.1 ft.~~
~~$h_{ECC/CS\ strainer}$~~	~~≤4.7 ft. Note 1~~
$NPSH_{available}$	~~21.9 ft.~~20.9 ft. Note1
Design-basis $NPSH_{required}$	~~15.7 ft.~~18.8 ft.

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Note 1 - ~~Contains head loss due to debris clogging and chemical effect.~~Detail of NPSH available is described in Reference 6.2-34. MIC-03-06-00010

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 2 of 20)

No.	Regulatory Position	US-APWR Design	
1.1.1.3	The sumps should be located on the lowest floor elevation in the containment exclusive of the reactor vessel cavity to maximize the pool depth relative to the sump screens. The sump outlets should be protected by appropriately oriented (e.g., at least two vertical or nearly vertical) debris interceptors: (1) a fine inner debris screen and (2) a coarse outer trash rack to prevent large debris from reaching the debris screen. A curb should be provided upstream of the trash racks to prevent high-density debris from being swept along the floor into the sump. To be effective, the height of the curb should be appropriate for the pool flow velocities, as the debris can jump over a curb if the velocities are sufficiently high. Experiments documented in NUREG ICR-6772 and NUREGICR-6773 have demonstrated that substantial quantities of settled debris could transport across the sump pool floor to the sump screen by sliding or tumbling.	~~Containment drains (transfer pipes) into the RWSP are protected from large debris by vertical debris bars capped by a ceiling plate. The sump openings (suction strainers) are located at approximately elevation 3 ft. - 7 in. of containment, with CSS and SI suction at approx - 1 ft. - 5 in. Disk, type suction strainer base mounted above the RWSP floor to be used, with 0.066 in hole diameter.~~ ~~Strainer surface area of approximately 2,754 ft^2 each to reduce the flow velocity and resist clogging, with sufficient recirculation flow and submergence to preclude vortexing.~~The RWSP containing sump strainers is located on the lowest floor elevation in the containment. The RWSP is designed so that the strainers are fully submerged during all accident conditions. A passive disk layer type of strainer system is employed, instead of the conventional double screen design with a finer screen and trash rack. The strainer is mounted on the base plate installed on the RWSP floor. A curb is not required in the RWSP because the strainer is designed for safe operation with all design basis debris accumulating on the strainer surface. The strainer design takes no credit for debris settling in the transport evaluation. This has been validated by testing.	MIC-03-06-00011
1.1.1.4	The floor in the vicinity of the ECC sump should slope gradually downward away from the sump to further retard floor debris transport and reduce the fraction of debris that might reach the sump screen.	~~Suction strainer to be base mounted above level RWSP floor. Design analysis inputs for debris transport are conservative.~~The strainer does not require a floor slope because it is designed for safe operation with all design basis debris accumulating on the strainer surface. This has been validated by testing. A slope is provided around the RWSP transfer pipes which drain water from the lowest floor of containment into the RWSP.	MIC-03-06-00012

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 4 of 20)

No.	Regulatory Position	US-APWR Design
1.1.1.7	Where consistent with the overall sump design and functionality, the top of the debris interceptor structures should be a solid cover plate that is designed to be fully submerged after a LOCA and completion of the ECC injection. The cover plate is intended to provide additional protection to debris interceptor structures from LOCA generated loads. However, the design should also provide a means for the venting of any air trapped underneath the cover.	~~A conventional suction strainer design with a flat cover plate is not planned. A disk type RWSP suction strainer is to be used.~~A conventional sump strainer with a flat cover plate is not applied. A passive disk layer type strainer is used, and designed to withstand debris loads when all design basis debris accumulates on the strainer surface.
1.1.1.8	The debris interceptors should be designed to withstand the inertial and hydrodynamic effects that are due to vibratory motion of a safe shutdown earthquake (SSE) following a LOCA without loss of structural integrity.	As noted in 1.1.1.6 above, the RWSP suction strainers are designed to seismic category I and quality class B standards.
1.1.1.9	Materials for debris interceptors and sump screens should be selected to avoid degradation during periods of both inactivity and operation and should have a low sensitivity to such adverse effects as stress-assisted corrosion that may be induced by chemically reactive spray during LOCA conditions.	Corrosion resistant (stainless steel) material is used for suction strainers and all inner surfaces of the RWSP.
1.1.1.10	The debris interceptor structures should include access openings to facilitate the inspection of these structures, any vortex suppressors, and the sump outlets.	RWSP hatches are provided and suction strainers are designed to allow sump inspections.
1.1.1.11	A sump screen design (i.e., size and shape) should be chosen that will avoid the loss of NPSH from debris blockage during the period that the ECCS is required to operate in order to maintain long-term cooling or maximize the time before loss of NPSH caused by debris blockage when used with an active mitigation system (see Regulatory Position 1.1.4).	~~Strainers~~The ECC/CS strainers are sized appropriately to withstand all design basis debris loads and minimize debris head loss to maintain NPSH in safe. ~~Because the RWSP has a large floor area, strainers are free from space restrictions and associated debris blockage.~~ An active sump strainer blockage mitigation system (Regulatory Position 1.1.4) is not applicable to the US-APWR.

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Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 5 of 20)

No.	Regulatory Position	US-APWR Design
1.1.1.12	The possibility of debris-clogging flow restrictions downstream of the sump screen should be assessed to ensure adequate long-term recirculation cooling, containment cooling, and containment pressure control capabilities. The size of the openings in the sump debris screen should be determined considering the flow restrictions of systems served by the ECCS sump. The potential for long thin slivers passing axially through the sump screen and then reorienting and clogging at any flow restriction downstream should be considered. Consideration should be given to the buildup of debris at downstream locations such as the following: containment spray nozzle openings, HPSI throttle valves, coolant channel openings in the core fuel assemblies, fuel assembly inlet debris screens, ECCS pump seals, bearings, and impeller running clearances. If it is determined that a sump screen with openings small enough to filter out particles of debris that are fine enough to cause damage to ECCS pump seals or bearings would be impractical, it is expected that modifications would be made to the ECCS pumps or ECCS pumps would be procured that can operate long-term under the probable conditions.	The ~~debris~~ECC/CS strainers are made of stainless steel and could use perforated plates in a layered disc with 0.066 in hole diameter~~.~~, which is sized to prevent any bypass debris larger than the minimum gap in downstream components. The design-basis bypass debris is determined and used for downstream evaluations for both in-vessel and ex-vessel portions. For in vessel evaluations, potential impacts due to bypass debris clogging is evaluated and concluded that long term cooling in maintained. For ex-vessel evaluations, the downstream components and equipment will be procured to meet design requirements to withstand bypass debris loads. MIC-03-06-00015 MIC-03-06-00015
1.1.1.13	ECC and containment spray pump suction inlets should be designed to prevent degradation of pump performance through air ingestion and other adverse hydraulic effects (e.g., circulatory flow patterns, high intake head losses).	~~During a LOCA, the minimum depth of water in the RWSP is 4 feet. At that minimum depth, the top of each RWSP suction strainer is submerged 3.67" below the surface of the water in the RWSP. The RWSP recirculation supply is sufficient to preclude adverse hydraulic effects (e.g., vortex formation and high suction head loss).~~The fully submerged advanced strainer configuration prevents vortexing from occuring. A low approach velocity at the strainer surface also mitigates the risk of vortexing, and prevents excessive head loss due to debris clossing or two-phase flow such as sump fluid flushing deaeration. MIC-03-06-00016 MIC-03-06-00016
1.1.1.14	All drains from the upper regions of the containment building, as well as floor drains, should terminate in such a manner that direct streams of water, which may contain entrained debris, will not discharge downstream of the sump screen, thereby, bypassing the sump screen.	The US-APWR design of ESF structures, systems, or components (SSCs) does not include a CSS or SIS suction flow path that bypasses the ~~RWSP suction~~ECC/CS strainers. MIC-03-06-00017

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 6 of 20)

No.	Regulatory Position	US-APWR Design
1.1.1.15	Advanced strainer designs (e.g., stacked disc strainers) have demonstrated capabilities that are not provided by simple flat plate or cone-shaped strainers or screens. For example, these capabilities include built-in debris traps where debris can collect on surfaces while keeping a portion of the screen relatively free of debris. The convoluted structure of such strainer designs increases the total screen area, and these structures tend to prevent the condition sometimes referred to as the TBE. It may be desirable to include these capabilities in any new sump strainer/screen designs. The performance characteristics and effectiveness of such designs should be supported by the appropriate test data for any particular intended application.	An advanced strainer design is ~~planned~~applied for the US-APWR. ~~Thin Bed Effects (TBE) are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34)~~The strainer is sized to withstand all design-basis debris loads, and prototypical strainer head loss tests were implemented to validate the design-basis debris head loss utilized for safety evaluations.
1.1.2	**Minimizing Debris** The debris (see Regulatory Position 1.3.2) that could accumulate on the sump screen should be minimized.	**Design Features and Capabilities** The design features and capabilities employed to minimize debris are presented below.
1.1.2.1	Cleanliness programs should be established to clean the containment on a regular basis, and plant procedures should be established for the control and removal of foreign materials from the containment.	Cleanliness, housekeeping, and foreign material exclusion areas are administrative controls developed by any applicant referencing the certified US-APWR design for construction and operation.
1.1.2.2	Insulation types (e.g., fibrous and calcium silicate) that are sources of debris known to readily transports to the sump screen and cause higher head losses may be replaced with insulation (e.g., reflective metallic insulation) that transports less readily and causes less severe head losses once deposited onto the sump screen. If insulation is replaced or otherwise removed during maintenance, abatement procedures should be established to avoid generating debris or its residue in the containment.	~~Particulate (e.g., Min-K based) insulation is excluded from the containment by design. Insulation is a purchased product and its use is controlled to meet the parameters provided in the US-APWR Sump Strainer Performance document (Ref. 6.2-34)~~ The US-APWR design maximizes the use of RMI insulation and precludes the use of problematic insulation (fiber and particulate) in the containment. The strainer is designed to allow the use of additional fiber insulation as an operational margin for future plant operation. Programmatic controls will be established by any applicant referencing certified US-APWR design to avoid generating debris during the plant maintenance and operation which may exceed the design-basis.

MIC-03-06-00018

MIC-03-06-00019

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 7 of 20)

No.	Regulatory Position	US-APWR Design	
1.1.2.3	To minimize potential debris caused by chemical reaction of the pool water with metals in the containment, exposure of bare metal surfaces (e.g., scaffolding) to containment cooling water through spray impingement or immersion should be minimized, either by removal or by chemical-resistant protection (e.g., coatings or jackets).	The principal measures taken by the US-APWR design to preclude adverse chemical effects include the use of a buffering agent, NaTB, and minimizing the use of aluminum. Programmatic controls will be established by any applicant referencing certified US-APWR design to limit aluminum and avoid generating chemical debris during plant maintenance and operation which may exceed the design-basis.	MIC-03-06-00020
1.1.3	**Instrumentation** If relying on operator action to mitigate the consequences of the accumulation of debris on the ECC sump screens, safety-related instrumentation that provides operators with an indication and audible warning of impending loss of NPSH for ECCS pumps should be available in the MCR.	**Design Features and Capabilities** ~~containment spray and SI pump operating~~The US-APWR does not rely on operator action to prevent the accumulation of debris on the ECC/CS strainers or to mitigate the consequences of the accumulation of debris on the ECC/CS strainers. However, Containment spray and SI pump operating information is available in the MCR to assist in NPSH evaluation and includes flow, suction, discharge pressure, and pump motor current.	MIC-03-06-00021
1.1.4	**Active Sump Screen System** An active device or system (see examples in Appendix ~~5~~ B) may be provided to prevent the accumulation of debris on a sump screen or to mitigate the consequences of the accumulation of debris on a sump screen. An active system should be able to prevent debris that may block restrictions found in the systems served by the ECC pumps from entering the system. The operation of the active component or system should not adversely affect the operation of other ECC components or systems. The performance characteristics of an active sump screen system should be supported by the appropriate test data that address head loss performance.	**Design Features and Capabilities** An active sump strainer blockage mitigation system is not applicable to the US-APWR.	MIC-03-06-00022
1.1.5	**Inservice inspection** To ensure the operability and structural integrity of the trash racks and screens, access openings are necessary to permit the inspection of the ECC sump structures and outlets. Inservice inspection of racks, screens, vortex suppressors, and sump outlets, including a visual examination for evidence of structural degradation or corrosion, should be performed on a regular basis at every refueling period outage. Inspection of ECC sump components late in the outage can ensure the absence of foreign material in the ECC sump.	RWSP hatches are provided and ~~suction~~the ECC/CS strainers are designed to allow sump inspections. Corrosion resistant (stainless steel) material is used for suction strainers and all inner surfaces of the RWSP. Inservice inspection of strainers, structural distress and evidence of abnormal corrosion is addressed in Subsection 6.2.2.4 and Technical Specification surveillance 3.5.2.5.	MIC-03-06-00023

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 8 of 20)

No.	Regulatory Position	US-APWR Design
1.2	**Evaluation of Alternative Water Sources** To demonstrate that a combination of the features and actions listed above is adequate to ensure long-term cooling and that the five criteria of 10 CFR 50.46(b) will be met post-LOCA, an evaluation using the guidance and assumptions in Regulatory Position ~~3.1~~1.3 is conducted. If relying on operator action to prevent the accumulation of debris on ECC sump screens or to mitigate the consequences of the accumulation of debris on the ECC sump screens, an evaluation is performed to ensure that the operator has adequate indications, training, time, and system capabilities to perform the necessary actions. If not covered by emergency operating procedures, procedures use alternative water sources that activate when unacceptable head loss renders the sump inoperable. The valves needed to align the ECCS and CSSs (taking suction from the recirculation sumps) with an alternative water source are periodically inspected and maintained.	In US-APWR, "operator action to prevent the accumulation of debris on ~~ECC sump~~the ECC/CS strainers or to mitigate the consequences of the accumulation of debris on the ~~ECC sump~~ECC/CS strainers" and "use of alternate water source" is not required. An active sump strainer blockage mitigation system is not applicable to the US-APWR. MIC-03-06-00024
1.3	**Evaluation of Long-Term Recirculation Capability** The following techniques, assumptions, and guidance is used in a deterministic, plant-specific evaluation to ensure that any implementation of a combination of the features and capabilities listed in Regulatory Position 1.1 are adequate to ensure the availability of a reliable water source for long-term recirculation following a LOCA. The assumptions and guidance listed below are also used to develop test conditions for sump screens. Evaluation and confirmation of (1) sump hydraulic performance (e.g., geometric effects, air ingestion), (2) debris effects (e.g., debris transport, interceptor blockage, head loss), and (3) the combined impact on NPSH available at the pump inlet, is performed to ensure that long-term recirculation cooling is accomplished following a LOCA. Such an evaluation arrives at a determination of NPSH margin calculated at the pump inlet. An assessment is made of the susceptibility to debris blockage of the containment drainage flowpaths to the recirculation sump (to protect against a reduction in available NPSH if substantial amounts of water are held up or diverted away from the sump). An assessment is made of the susceptibility of the flow restrictions in the ECCS and CSS recirculation flow paths downstream of the sump screens and of the recirculation pump seal and bearing assembly design to failure from particulate ingestion and abrasive effects to protect against degradation of long-term recirculation pumping capacity.	**Design Features and Capabilities** Performance of long-term recirculation is evaluated by adopting the SE of NEI 04-07 methodology. ~~Further and additional evaluation is conducted in accordance with the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~Subsection 6.2.2.3.1 to 6.2.2.3.14 provides the key US-APWR plant information with respect to the assumptions and guidance listed in the regulatory position 1.3. Further detail is discussed in the US-APWR GSI-191 associated technical reports (Ref. 6.2-34, 6.2-36, 6.2-38). MIC-03-06-00025

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 9 of 20)

No.	Regulatory Position	US-APWR Design
1.3.1.1	ECC and containment heat removal systems should be designed so that sufficient available NPSH is provided to the system pumps, assuming the maximum expected temperature of the pumped fluid and no increase in containment pressure from that present prior to the postulated LOCA. (See Regulatory Position 1.3.1.2, below.) For sump pools with temperatures less than 212° F, it is conservative to assume that the containment pressure equals the vapor pressure of the sump water. This ensures that credit is not taken for the containment pressurization during the transient. For sub-atmospheric containments, this guidance should apply after the injection phase has terminated. For sub-atmospheric containments, prior to the termination of the injection phase, NPSH analyses should include conservative predictions of the containment atmospheric pressure and sump water temperature as a function of time.	Post-LOCA containment pressure is not credited for US-APWR NPSH evaluation of ECC and containment heat removal systems.
1.3.1.2	For certain operating PWRs for which the design cannot be practicably altered, conformance with Regulatory Position 1.3.1.1 (above) may not be possible. In these cases, no additional containment pressure should be included in the determination of available NPSH than is necessary to preclude pump cavitation. The calculation of available containment pressure and sump water temperature as a function of time should underestimate the expected containment pressure and overestimated the sump water temperature when determining the available NPSH for this situation.	Not applicable to US-APWR. (This item applies to operating PWR plants only.)
1.3.1.3	For certain operating reactors for which the design cannot be practicably altered, if credit is taken for the operation of an ECCS or containment heat removal pump in cavitation, prototypical pump tests should be performed along with post-test examination of the pump to demonstrate that pump performance will not be degraded and that the pump continues to meet all the performance criteria assumed in the safety analyses. The time period in the safety analyses during which the pump may be assumed to operate while cavitating should not be longer than the time for which the performance tests demonstrate that the pump meets performance criteria.	Not applicable to US-APWR. (This item applies to operating PWR plants only.)

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Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 10 of 20)

No.	Regulatory Position	US-APWR Design
1.3.1.4	The decay and residual heat produced following accident initiation should be included in the determination of the water temperature. The uncertainty in the determination of the decay heat should be included in this calculation. The residual heat should be calculated with margin.	The post-LOCA temperature-time profile of the RWSP is determined by analysis that considers decay and residual heat, and includes appropriate uncertainty and margin.
1.3.1.5	The hot channel correction factor specified in (ANSI)/HI 1.1-1.5-1994 should not be used in determining the margin between the available and required NPSH for ECCS and containment heat removal system pumps.	The Hot Channel Correction Factor is not considered in the US-APWR.
1.3.1.6	The calculation of available NPSH should minimize the height of water above the pump suction (i.e., the level of water on the containment floor). The calculated height of water on the containment floor should not consider quantities of water that do not contribute to the sump pool (e.g., atmospheric steam, pooled water on floors and in refueling canals, spray droplets and other falling water). The amount of water in enclosed areas that cannot be readily returned to the sump should not be included in the calculated height of water on the containment floor.	Post-LOCA water level in the RWSP is conservatively estimated and does not consider the quantity of water (including "trapped" water in enclosed areas) that does not contribute to the RWSP
1.3.1.7	The calculation of pipe and fitting resistance and the calculation of the nominal screen resistance without blockage by debris should be done in a recognized, defensible method or determined from applicable experimental data.	Hydraulic resistance of piping, fittings, and valves is calculated using an approved method using widely recognized and approved industry standards. Head loss of the suction strainer selected and the customary review of the construction configuration are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).
1.3.1.8	Sump screen flow resistance that is due to blockage by LOCA-generated debris or foreign material in the containment that is transported to the suction intake screens should be determined using Regulatory Position 1.3.4.	Design analysis uses Regulatory Position 1.3.4.
1.3.1.9	Calculation of available NPSH should be performed as a function of time until it is clear that the available NPSH will not decrease further.	NPSH calculation assumptions and input values are based on limiting (most conservative) conditions that yield the smallest margin.
1.3.2	**Debris Sources and Generation**	US-APWR Design Feature

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Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 11 of 20)

No.	Regulatory Position	US-APWR Design	
1.3.2.1	Consistent with the requirements of 10 CFR 50.46, debris generation should be calculated for a number of postulated LOCAs of different sizes, locations, and other properties sufficient to provide assurance that the most severe postulated LOCAs are calculated. The level of severity corresponding to each postulated break should be based on the potential head loss incurred across the sump screen. Some PWRs may need recirculation from the sump for licensing basis events other than LOCAs. Therefore, licensees should evaluate the licensing basis and include potential break locations in the main steam and main feedwater lines, as well in determining the most limiting conditions for sump operation.	The break properties (e.g., sizes, locations) used in the SE of the NEI 04-07 methodology are considered for debris generation. Break properties are ~~addressed~~determined based on the most limiting break location in terms of debris generation, transport and head loss of the strainer as discussed in Subsection 6.2.2.3.1. Further detail is discussed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).	MIC-03-06-00030
~~1.3.1.3~~	~~For certain operating reactors for which the design cannot be practicably altered, if credit is taken for the operation of an ECCS or containment heat removal pump in cavitation, prototypical pump tests should be performed along with post-test examination of the pump to demonstrate that pump performance will not be degraded and that the pump continues to meet all the performance criteria assumed in the safety analyses. The time period in the safety analyses during which the pump may be assumed to operate while cavitating should not be longer than the time for which the performance tests demonstrate that the pump meets performance criteria.~~	~~Not applicable to US-APWR. (This item applies to operating PWR plants only.)~~	MIC-03-06-00028
~~1.3.1.4~~	~~The decay and residual heat produced following accident initiation should be included in the determination of the water temperature. The uncertainty in the determination of the decay heat should be included in this calculation. The residual heat should be calculated with margin.~~	~~The post-LOCA temperature-time profile of the RWSP is determined by analysis that considers decay and residual heat, and includes appropriate uncertainty and margin.~~	MIC-03-06-00028
~~1.3.1.5~~	~~The hot channel correction factor specified in (ANSI)/HI 1.1-1.5-1994 should not be used in determining the margin between the available and required NPSH for ECCS and containment heat removal system pumps.~~	~~The Hot Channel Correction Factor is not considered in the US-APWR.~~	MIC-03-06-00028

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 12 of 20)

No.	Regulatory Position	US-APWR Design
~~1.3.1.6~~	~~The calculation of available NPSH should minimize the height of water above the pump suction (i.e., the level of water on the containment floor). The calculated height of water on the containment floor should not consider quantities of water that do not contribute to the sump pool (e.g., atmospheric steam, pooled water on floors and in refueling canals, spray droplets and other falling water). The amount of water in enclosed areas that cannot be readily returned to the sump should not be included in the calculated height of water on the containment floor.~~	~~Post LOCA water level in the RWSP is conservatively estimated and does not consider the quantity of water (including “trapped” water in enclosed areas) that does not contribute to the RWSP.~~

MIC-03-06-00028

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 13 of 20)

No.	Regulatory Position	US-APWR Design
1.3.2.2	An acceptable method for estimating the amount of debris generated by a postulated LOCA is to use the zone of influence (ZOI). Examples of this approach are provided in NUREG/CR-6224 and Boiling Water Reactor Owners' Group (BWROG) Utility Resolution Guidance (NEDO-32686 and the staffs Safety Evaluation on the BWROG's response to NRC Bulletin 96-03). A representation of the ZOI for commonly-used insulation materials is shown in Figure 3. The size and shape of the ZOI should be supported by analysis or experiments for the break and potential debris. The size and shape of the ZOI should be consistent with the debris source (e.g., insulation, fire barrier materials) damage pressures, (i.e., the ZOI should extend until the jet pressures decrease below the experimentally determined damage pressures appropriate for the debris source). The volume of debris contained within the ZOI should be used to estimate the amount of debris generated by a postulated break. The size distribution of debris created in the ZOI should be determined by analysis or experiments. The shock wave generated during the postulated pipe break and the subsequent jet should be the basis for estimating the amount of debris generated and the size or size distribution of the debris generated within the ZOI. Certain types of material used in a small quantity inside the containment can, with adequate justification, be demonstrated to make a marginal contribution to the debris loading for the ECC sump. If debris generation and debris transport data have not been determined experimentally for such material, it may be grouped with another, like material existing in large quantities. For example, a small quantity of fibrous filtering material may be grouped with a substantially large quantity of fibrous insulation debris, and the debris generation and transport data for the filter material need not be determined experimentally. However, such analyses are valid only if the small quantity of material treated in this manner does not have a significant effect when combined with other materials (e.g., a small quantity of calcium silicate combined with fibrous debris).	The debris generated by a postulated pipe break is estimated by applying the ZOI(s) corresponding to debris types as recommended in SE of the NEI 04-07 methodology. A reduced ZOI for protective coating (Ref. 6.2-51 and 6.2-52) is applied for coating debris generation. Debris generation is addressed in the subsection 6.2.2.3.3. Further detail is discussed in US-APWR Sump Strainer Performance document (Ref. 6.2-34).

MIC-03-06-00031

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 14 of 20)

No.	Regulatory Position	US-APWR Design
1.3.2.3	A sufficient number of breaks in each high-pressure system that relies on recirculation should be considered to reasonably bound variations in debris generation by the size, quantity, and type of debris. At a minimum, the following postulated break locations should be considered. Breaks in the reactor coolant system (e.g., hot leg, cold leg, pressurizer surge line) and, depending on the plant licensing basis, main steam and main feedwater lines with the largest amount of potential debris within the postulated ZOI. Large breaks with two or more different types of debris, including the breaks with the most variety of debris, within the expected ZOI. Breaks in areas with the most direct path to the sump, medium and large breaks with the largest potential particulate debris to insulation ratio by weight. Breaks that generate an amount of fibrous debris that, after its transport to the sump screen, could form a uniform thin bed that could subsequently filter sufficient particulate debris to create a relatively high head loss referred to as the TBE. The minimum thickness of fibrous debris needed to form a thin bed has typically been estimated at 0.125 inch thick, based on the nominal insulation density (NUREG/CR-6224).	The break selection is performed base on the five break location criteria recommended in the SE of NEI 04-07 methodology and the most limiting break location is utilized for debris generation analysis as discussed in subsection 6.2.2.1. Further details are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34). MIC-03-06-00035 MIC-03-06-00032
1.3.2.4	All insulation (e.g., fibrous, calcium silicate, reflective metallic), painted surfaces, fire barrier materials, and fibrous, cloth, plastic, or particulate materials within the ZOI should be considered a debris source. Analytical models or experiments should be used to predict the size of the postulated debris. For breaks postulated in the vicinity of the pressure vessel, the potential for debris generation from the packing materials commonly used in the penetrations and the insulation installed on the pressure vessel should be considered. Particulate debris generated by pipe rupture jets stripping off paint or coatings and eroding concrete at the point of impact should also be considered.	Potential debris sources, types, and characteristics are addressed in subsection 6.2.2.3.2. Further details are discussed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34). MIC-03-06-00036 MIC-03-06-00032
1.3.2.5	The cleanliness of the containment during plant operation should be considered when estimating the amount and type of debris available to block the ECC sump screens. The potential for such material (e.g., thermal insulation other than piping insulation, ropes, fire hoses, wire ties, tape, ventilation system filters, permanent tags or stickers on plant equipment, rust flakes from unpainted steel surfaces, corrosion products, dust and dirt, latent individual fibers) to impact head loss across the ECC sump screens should also be considered.	Cleanliness, housekeeping and foreign material exclusion areas are administrative controls and programs to be developed by any applicant referencing the certified US-APWR design for construction and operation.

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 15 of 20)

No.	Regulatory Position	US-APWR Design
1.3.2.6	In addition to debris generated by jet forces from the pipe rupture, debris created by the resulting containment environment (thermal and chemical) should be considered in the analyses. Examples of this type of debris would be disbondment of coatings in the form of chips and particulates or formation of chemical debris (precipitants) caused by chemical reactions in the pool.	~~Principal measures taken by the US-APWR design to preclude adverse chemical effects include the use of the buffering agent, NaTB, and minimizing the use of aluminum.~~Chemical debris is considered in the design-basis debris of the US-APWR and utilized in the analyses. The US-APWR chemical effects test using plant debris source material was implemented and test data was used for quantifying the chemical debris.
1.3.2.7	Debris generation that is due to continued degradation of insulation and other debris when subjected to turbulence caused by cascading water flows from upper regions of the containment, or near the break overflow region should be considered in the analyses.	~~Break properties and debris production considerations are based on NEI 04-07 methodology and are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The US-APWR conservatively assumes that all debris is fine which is transported to the strainer. No debris settlement or entrapment in containment is credited in the analysis. 30 day-erosion is not applicable to the US-APWR debris generation analysis.
~~1.3.2.3~~	~~A sufficient number of breaks in each high-pressure system that relies on recirculation should be considered to reasonably bound variations in debris generation by the size, quantity, and type of debris. At a minimum, the following postulated break locations should be considered. Breaks in the reactor coolant system (e.g., hot leg, cold leg, pressurizer surge line) and, depending on the plant licensing basis, main steam and main feedwater lines with the largest amount of potential debris within the postulated ZOI. Large breaks with two or more different types of debris, including the breaks with the most variety of debris, within the expected ZOI. Breaks in areas with the most direct path to the sump, medium and large breaks with the largest potential particulate debris to insulation ratio by weight. Breaks that generate an amount of fibrous debris that, after its transport to the sump screen, could form a uniform thin bed that could subsequently filter sufficient particulate debris to create a relatively high head loss referred to as the TBE. The minimum thickness of fibrous debris needed to form a thin bed has typically been estimated at 0.125 inch thick, based on the nominal insulation density (NUREG/CR 6224).~~	~~The break properties (e.g., sizes, locations) used in the NEI 04-07 methodology are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~

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MIC-03-06-00034

MIC-03-06-00035

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 16 of 20)

No.	Regulatory Position	US-APWR Design	
~~1.3.2.4~~	~~All insulation (e.g., fibrous, calcium silicate, reflective metallic), painted surfaces, fire barrier materials, and fibrous, cloth, plastic, or particulate materials within the ZOI should be considered a debris source. Analytical models or experiments should be used to predict the size of the postulated debris. For breaks postulated in the vicinity of the pressure vessel, the potential for debris generation from the packing materials commonly used in the penetrations and the insulation installed on the pressure vessel should be considered. Particulate debris generated by pipe rupture jets stripping off paint or coatings and eroding concrete at the point of impact should also be considered.~~	~~Potential debris sources, types, and characteristics are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~	MIC-03-06-00036
1.3.3.1	The calculation of the debris quantities transported from debris sources to the sump screen should consider all modes of debris transport, including airborne debris transport, containment spray wash-down debris transport, and containment sump pool debris transport. Consideration of the containment pool debris transport should include, (1) debris transport during the fill-up phase, as well as during the recirculation phase, (2) the turbulence in the pool caused by the flow of water, water entering the pool from break overflow, and containment spray drainage, and (3) the buoyancy of the debris. Transport analyses of the debris should consider: (1) debris that would float along the pool surface, (2) debris that would remain suspended due to pool turbulence (e.g., individual fibers and fine particulates), and (3) debris that readily settles to the pool floor.	~~Debris quantity calculations consider appropriate transport modes and mechanisms for LOCA phases and conditions, consistent with NEI 04-07 guidance and recommendations. Further analysis and evaluation of phenomena affecting the RWSP performance~~The US-APWR conservatively assumes that all generated debris in containment is transported to operable sumps during accident. No debris settlement, floating, or entrapment in containment is credited in transport analysis as discussed in Subsection 6.2.3.3.5. Further details are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).	MIC-03-06-00037
1.3.3.2	The debris transport analyses should consider each type of insulation (e.g., fibrous, calcium silicate, reflective metallic) and debris size (e.g., particulates, fibrous fine, large pieces of fibrous insulation). The analyses should also consider the potential for further decomposition of the debris as it is transported to the sump screen.	~~Transport analysis is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The debris transport analyses consider each type of debris source. 30-day erosion of debris is no longer applicable to the US-APWR, as discussed in the above Regulatory Position 1.3.2.7.	MIC-03-06-00038
1.3.3.3	Bulk flow velocity from recirculation operations, LOCA-related hydrodynamic phenomena, and other hydrodynamic forces (e.g., local turbulence effects or pool mixing) should be considered for both debris transport and ECC sump screen velocity computations.	~~RWSP transport and suction strainer performance computations consider appropriate bulk flow velocities and other LOCA-related hydrodynamic phenomena and forces.~~Bulk flow velocity or computed fluid dynamics (CFD) simulation is not applicable for the US-APWR debris transport evaluation. The US-APWR conservatively assumes that all generated debris in containment is transported to the sump.	MIC-03-06-00039

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 17 of 20)

No.	Regulatory Position	US-APWR Design	
1.3.3.4	An acceptable analytical approach to predict debris transport within the sump pool is to use computational fluid dynamics (CFD) simulations in combination with the experimental debris transport data. Examples of this approach are provided in NUREG/CR-6772 and NUREG/CR-6773. Alternative methods for debris transport analyses are also acceptable, provided they are supported by adequate validation of analytical techniques using experimental data to ensure that the debris transport estimates are conservative with respect to the quantities and types of debris transported to the sump screen.	~~RWSP debris transport design analysis is performed by alternate methods, uses approved analytical techniques, and is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~Not applicable to the US-APWR. The US-APWR conservatively assumes that all generated debris is transported to the sump.	MIC-03-06-00040
1.3.3.5	Curbs can be credited for removing heavier debris that has been shown analytically or experimentally to travel by sliding along the containment floor and that cannot be lifted off the floor within the calculated water velocity range.	~~RWSP debris transport design analysis is performed by alternate method, uses approved analytical techniques, and is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~Curbs are not credited for reducing debris which reaches the strainer. The US-APWR conservatively assumes that all generated debris is transported to the sump.	MIC-03-06-00041
1.3.3.6	If transported to the sump pool, all debris (e.g., fine fibrous, particulates) that would remain suspended due to pool turbulence should be considered to reach the sump screen.	~~RWSP debris transport design analysis is performed by alternate methods, uses approved analytical techniques, and is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The US-APWR conservatively assumes that all generated debris is transported to the sump.	MIC-03-06-00042
1.3.3.7	The time to switch over to sump recirculation and the operation of containment spray should be considered in the evaluation of debris transport to the sump screen.	RWSP is the reliable and safety-related source of cooling water following a LOCA. This item does not apply to US-APWR design. (No suction "switch-over.")	

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 18 of 20)

No.	Regulatory Position	US-APWR Design
1.3.3.8	In lieu of performing airborne and containment spray wash-down debris transport analyses, it could be assumed that all debris will be transported to the sump pool. In lieu of performing sump pool debris transport analyses (Regulatory Position1. 3.3.4 above), it could be assumed that all debris entering the sump pool or originating in the sump will be considered transported to the sump screen when estimating screen debris bed head loss. If it is credible in a plant that all drains leading to the containment sump could become completely blocked, or an inventory holdup in the containment could happen together with debris loading on the sump screen, these ~~situations~~ could pose a worse impact on the recirculation sump performance than the assumed situations mentioned above. In this case, these situations should also be assessed.	~~Debris quantity calculations consider appropriate transport modes and mechanisms for LOCA phases and conditions, consistent with NEI 04-07 guidance and recommendations, and are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34). Multiple RWSP drain paths located around the containment and at differing heights ensure reliable water return to RWSP. Water holdup volume is accounted for in the minimum RWSP volume (607,500 gal), and suction strainers are of the latest design available. Thus, simultaneous blockages of debris interceptors and strainers are not deemed credible.~~The US-APWR assumes that all generated debris is transported to the sump. Potential choke points which could block make-up water flow to the RWSP have been evaluated. Given the multiple drain paths to the RWSP, complete blockage of all paths to the RWSP is considered to be not credible. MIC-03-06-00043
1.3.3.9	The effects of floating or buoyant debris on the integrity of the sump screen and on subsequent head loss should be considered. For screens that are not fully or are only shallowly submerged, floating debris could contribute to the debris bed head loss. The head loss due to floating or buoyant debris could be minimized by a design feature to keep buoyant debris from reaching the sump screen.	The four ~~RWSP suction~~ECC/CS strainers are widely separated and fully submerged ~~(approx. 4 ft. at minimum) as base-mounted on the RWSP floor, and are of a low flow design presenting approximately 3,510 ft^2 surface area.~~by design. Floating or buoyant debris does not adversely affect strainer performance. MIC-03-06-00044
1.3.4 1.3.4.1	**Debris Accumulation and Head Loss** ECC sump screen blockage should be evaluated based on the amount of debris estimated using assumptions and criteria of Regulatory Position 3.2 and on debris transported to the ECC sump (Regulatory Position 3.3.) The debris volume should be used to estimate the rate of accumulation of debris on the ECC sump screen.	~~Debris that reaches the RWSP suction strainer is considered to be clogging the strainer surface. A plant-specific strainer performance characteristics evaluation is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The ECC/CS strainers are designed based on conservative assumptions so that all generated debris in containment is transported to the sumps. In addition, conservative assumptions (e.g., flow rate, temperature) are considered to conservatively evaluate the strainer head loss. MIC-03-06-00045

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 19 of 20)

No.	Regulatory Position	US-APWR Design
1.3.4.2	Consideration of ECC sump screen submergence (full or partial) at the time of switchover to ECCS should be given in calculating the available (wetted) screen area. For plants in which containment heat removal pumps take suction from the ECC sump before switchover to the ECCS, the available NPSH for these pumps should consider the submergence of the sump screens at the time these pumps initiate suction from the ECC sump. Unless otherwise shown analytically or experimentally, debris should be assumed to be uniformly distributed over the available sump screen surface. Debris mass should be calculated based on the amount of debris estimated to reach the ECC sump screen. (See Revision 1 of NUREG-0897, NUREG/CR-3616, and NUREG/CR-6224.)	US-APWR design does not require suction "switch over." ~~An NPSH evaluation of the CSS head loss is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~Strainers are fully submerged from the beginning of postulated accidents. All debris is considered to be uniformly distributed over the strainer disks surface. This has been demonstrated by testing.
1.3.4.3	For fully submerged sump screens, the NPSH available to the ECC pumps should be determined using the conditions specified in the plant's licensing basis.	~~NPSH design analysis inputs are addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The ECC/CS strainers is designed based on conservative assumptions so that all generated debris in containment is transported to the sumps. In addition, conservative assumptions (e.g., flow rate, temperature) are considered to conservatively evaluate the strainer head loss.
1.3.4.4	For partially submerged sumps, NPSH margin may not be the only failure criterion (see Appendix A). For partially submerged sumps, credit should only be given to the portion of the sump screen that is expected to be submerged, as a function of time. Pump failure should be assumed to occur when the head loss across the sump screen (including only the clean screen head loss and the debris bed head loss) is greater than one-half of the submerged screen height or NPSH margin.	Not applicable to the US-APWR design. ~~Suction~~The ECC/CS strainers are submerged ~~(approx. 4 ft., minimum)~~ during a LOCA.

MIC-03-06-00046

MIC-03-06-00047

MIC-03-06-00048

Table 6.2.2-2 Comparison of RWSP Recirculation Intake Debris Strainer Design to RG 1.82 Requirements (Sheet 20 of 20)

No.	Regulatory Position	US-APWR Design	
1.3.4.5	Estimates of head loss caused by debris blockage should be developed from empirical data based on the sump screen design (e.g., surface area and geometry), postulated combinations of debris (i.e., amount, size distribution, type), and approach velocity. Because the debris beds that form on sump screens can trap debris that would pass through an unobstructed sump screen opening, any head loss correlation should conservatively account for filtration of particulates by the debris bed, including particulates that would pass through an unobstructed sump screen.	~~Head loss estimates are consistent with NEI 04-07 guidance and recommendations. Information on sump screen performance for long-term cooling is proposed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The design basis strainer head loss includes additional margin from the empirical data obtained by the US-APWR strainer head loss tests. The tests were implemented and terminated after sufficient pool turnover to ensure all debris accumulated on the strainer surfaces. The tests demonstrated that there was no unobstructed portions of the strainer surface and recirculated particles were further filtered by the debris bed.	MIC-03-06-00049
1.3.4.6	Consistent with the requirements of 10 CFR 50.46, head loss should be calculated for the debris beds formed of different combinations of fibers and particulate mixtures (e.g., minimum uniform thin bed of fibers supporting a layer of particulate debris) based on assumptions and criteria described in Regulatory Positions 1.3.2 and 1.3.3.	~~Debris accumulation and characterization is addressed in the US-APWR Sump Strainer Performance document (Ref. 6.2-34).~~The design basis strainer head loss includes additional margin from the empirical data obtained by the US-APWR strainer head loss tests. The tests were designed to form a mixed bed consisting of all debris types (i.e., fiber insulation, coating particles, latent fiber and dirt/dust, and chemical debris). The tests demonstrated formation of a thin bed over the strainer surface and further filtering of recirculated particle debris.	MIC-03-06-00050

DCD_06.02.02-55

Table 6.2.2-4 Design Basis Debris

Type		Amount
RMI (Transco)		106 (ft^3)
Fibrous Insulation (Nukon)		0.0 (ft^3) (1)
Coating (Epoxy)		3.0 (ft^3) (2)
Latent Debris (200 lbm)	Fiber (15%)	30 (lbm)
	Particle (85%)	170 (lbm)
Chemical debris	Aluminum Hydroxide	145 (lbm)
	Sodium Aluminum Silicate	160 (lbm)

Note: The following debris is included as operational margin, in addition to the amounts above:

(1) 1.875 (ft^3) of fiber debris
(2) 200 (lbs) of coating debris

injection flow at a small flow rate (followed by the injection flow from the SI pumps). The required capacity of each accumulator at the small injection flow rate is approximately 724 ft^3, which is increased to approximately 784 ft^3 (Ref. 6.3-3).

The volume of each accumulator (2,126 ft^3) includes the volume (1,342 ft^3 plus 784 ft^3) associated with both the large and small injection flow rates, respectively. Considering the total water volume (2,126 ft^3) and adding the volume of gas space and dead water volume, the required volume of a single accumulator is 3,180 ft^3 (Ref. 6.3-3).

The design temperature of the accumulator is 300°F which is consistent with the design temperature of the containment where the accumulators are located. The design pressure of the accumulator is 700 psig. This value provides margin to the normal operating pressure (i.e., nitrogen pressure) of 640 psig.

The flow rate coefficient and uncertainty of the flow damper is described in Ref. 6.3-3 and Ref. 6.3-4.

6.3.2.2.3 Refueling Water Storage Pit

The RWSP is designed to have a sufficient inventory of boric acid water for refueling and long-term core cooling during a LOCA. A minimum of 81,230 ft^3 of available water is required in the RWSP. Sufficient submerged water level is maintained to secure the minimum NPSH for the SI pumps. The RWSP capacity includes an allowance for instrument uncertainty and the amount of holdup volume loss within the containment. The capacity of the RWSP is optimized for a LOCA in order to prevent an extraordinarily large containment. Therefore, a refueling water storage auxiliary tank containing 29,410 ft^3 is provided separately outside the containment to ensure that the required volume for refueling operations is met. Table 6.3-5 presents the relevant RWSP data. Detail description of structure and capacity of RWSP is provided in Subsection 6.2.2.2.

The temperature during normal operation is in a range of 70 to 120°F. The peak temperature following a LOCA is approximately ~~250~~270°F. MIC-03-06-00051

The boric acid water in the RWSP is purified using the refueling water storage system (RWS). The RWS is shown in Figure 6.3-7 and may be cross-connected to one of two SFPCS filter and demineralizer vessels to remove the solid materials and the dissolved impurities for purification. The capacity of the purification subsystem is designed to maintain the chemistry of the spent fuel pool, the refueling cavity, the refueling water storage auxiliary tank, and the RWSP. Chapter 9, Subsection 9.1.3, discusses the SFPCS purification of the boric acid water.

6.3.2.2.4 ECC/CS Strainers

Four independent sets of strainers are provided inside the RWSP as part of the ECCS and CSS. ECC/CS strainers are provided for preventing debris from entering the safety systems, which are required to maintain the post-LOCA long-term cooling performance. ECC/CS strainers are designed to comply with RG 1.82. Strainer compliance with RG 1.82 is discussed in Subsection 6.2.2.2.6.

The RWSP is located at the lowest part of the containment in order to collect containment spray water and blowdown water by gravity. It is compartmentalized by a concrete structure against the upper containment area. Connecting pipes that drain the collected water from the upper containment are provided in the ceiling of the RWSP. The fully submerged strainers are installed on the bottom floor of the RWSP inside containment at elevation 3 ft. - 7 in. Below the strainers at elevation 3 ft. - 7 in. is the bottom of the RWSP sumps. Table 6.3-5 presents relevant ECC/CS strainer data.

The fully submerged strainers, in combination with the SI pump elevation, provide sufficient NPSH to ensure continuous suction availability without cavitation during all postulated events requiring the actuation of the ECCS.

The strainer sizing accommodates the estimated amount of debris potentially generated in containment. (Subsection ~~6.2.2.26~~6.2.2.2.6) MIC-03-06-00052

The Sump Strainer Performance Evaluation document (Ref. 6.2-34) evaluates parameters described in the SE of the NEI 04-07 (Ref. 6.2-24). Reference 6.2-36 provides additional detailed evaluation of downstream effects potentially impacting the safety functions associated with pumps, valves, heat exchangers, instrumentation (sensing lines and flow measuring devices), spray nozzles, reactor vessel flow paths. Evaluation of downstream effects is described in the report "Sump Strainer Downstream Effects" (Ref: 6.2-36). MIC-03-06-00053

6.3.2.2.5 NaTB Baskets and NaTB Basket Containers

Crystalline NaTB additive is stored in the containment and is used to raise the pH of the RWSP from 4.3 to at least 7.0 post-LOCA. The chemical composition of NaTB is $Na_2B_40_7 \cdot 10\ H_20$. (Sodium tetra-borate decahydrate is also known as “borax” and can be written $B_4O_7Na_2 \cdot 10\ H_20$.)

The total weight of NaTB contained in the baskets is at least 44,100 pounds to raise the pH of the borated water in the containment following an accident to at least 7.0.

Twenty-three NaTB baskets are placed in the containment to maintain the desired post-accident pH conditions in the recirculation water. The buffering agent is mixed with the recirculation water in the containment so that the desired post-accident pH conditions in the recirculation water is maintained.

Twenty three NaTB baskets are divided and installed into three NaTB basket containers. Figure 6.3-8 and Figure 6.3-9 are the plan and sectional views of the NaTB baskets and NaTB basket containments installation, which are located on the maintenance platform in the containment at elevation 121 ft. - 5 in. The upper lips of the NaTB Basket Containers are approximately 1 ft. - 7 in. above the top of the NaTB baskets. This allows for the full immersion of the baskets and the optimum NaTB transfer to the RWSP.

The NaTB basket containers include the following number of NaTB baskets:

- Container A: Nine NaTB baskets
- Container B: Seven NaTB baskets

Table 6.3-2 Response of US-APWR to Unresolved Safety Issues (Sheet 2 of 2)

A-40	**SEISMIC DESIGN CRITERIA** Seismic design requirements and methodology have evolved. But early plants were designed without specific seismic requirements. These plants need to be reviewed based on the latest knowledge.	US-APWR is designed based on the latest seismic design criteria. (Refer to DCD Chapter 3, Section 3.7).
A-43	**CONTAINMENT EMERGENCY SUMP PERFORMANCE** After a LOCA, ECCS degradation is a concern due to air or material intrusion in the recirculation sump screen. The following specific items are: 1. Pump failure due to vortex, or air intrusion. 2. Screen clogging due to foreign materials such as collapsed insulation attributable to a LOCA and loss of pump NPSH from a clogged screen. 3. Operability problems with RHR/CSS pump due to air and foreign materials, and, effect of foreign particles to seals and bearings.	This issue is discussed in Subsection 6.2.2.2.6 and 6.2.2.3.
B-61	**ALLOWABLE ECCS EQUIPMENT OUTAGE PERIODS** The current outage/maintenance periods for ECCS equipment are determined using engineering judgment. Unavailability of ECCS equipment is between 0.3 and 0.8 need to be optimized. In the United States, On-Line Maintenance is frequently performed and discussed using the PSA method in light of safety.	In the US-APWR, ECCS consists of four independent trains of mechanical components and electrical equipments. The US-APWR allows On-Line Maintenance without conflicting the limiting condition for operation (LCO).

MIC-03-06-00054

Table 6.3-3 Response of US-APWR to Generic Safety Issues (Sheet 2 of 2)

No.	Regulatory Position	US-APWR Design
122.2	**INITIATING FEED AND BLEED** This issue addresses the emergency operating procedure and operator training to assess the necessity of initiation of cooling operation using feed-and-bleed based on the experienced loss-of-steam generator cooling incident at Davis Besse described in NUREG-1154.	This issue is discussed in Subsection 6.3.2.8.
185	**CONTROL OF RECRITICALITY FOLLOWING SMALL BREAK LOCA IN PWRS** In PWR plants, if RCPs and natural circulation stopped during small break LOCA, steam generated at the core could be condensed in the SG and be accumulated in the outlet plenum and crossover piping. When the natural circulation or RCP is restarted, the low concentration boric acid coolant could flow into the core and result in recriticality.	This issue was considered not to be a generic safety issue by the NRC, and closed.
191	**ASSESSMENT OF DEBRIS ACCUMULATION ON PWR SUMP PERFORMANCE(Rev.1)** Another phenomenon and failure mode that are not considered in USI, A-43, were revealed in a study concerning ECCS sump strainer blockage in BWR plants. In addition, debris such as degradation or failure of paint in the containment and associated sump blockage in PWR plants was revealed by plant operating experience. NRC recognized this matter and required the extended study to address these latest safety issues.	This issue is discussed in Subsection 6.2.2.2.6 and 6.2.2.3.

MIC-03-06-00055

Table 6.3-4 Response of US-APWR to Generic Letters and Bulletins (Sheet 6 of 11)

No.	Regulatory Position	US-APWR Design
GL 98-04	**POTENTIAL FOR DEGRADATION OF THE EMERGENCY CORE COOLING SYSTEM AND THE CONTAINMENT SPRAY SYSTEM AFTER A LOSS-OF-COOLANT ACCIDENT BECAUSE OF CONSTRUCTION AND PROTECTIVE COATING DEFICIENCIES AND FOREIGN MATERIAL IN CONTAINMENT** NRC alerts licensees that foreign material continues to be found inside operating nuclear power plant containments. During a design basis LOCA, this foreign material could block an ECCS or safety-related CSS flow path or damage ECCS or safety-related CSS equipment. The NRC is also issuing this GL to alert the licensees to the problems associated with the material condition of Service Level 1 protective coatings inside the containment and to request information under 10 CFR 50.54(f) to evaluate the licensees' programs for ensuring that Service Level 1 protective coatings inside containment do not detach from their substrate during a design basis LOCA and interfere with the operation of the ECCS and the safety related CSS. As a result of NRC findings in these areas and due to the importance of ensuring system functionality, within 120 days of the date of this GL, licensees are required to submit a written response ensuring that Service Level 1 protective coatings inside containment do not detach from their substrate during a design basis LOCA.	This issue is discussed in Subsection ~~6.2.2.3~~6.1.2, 6.2.2.3.2, and 6.2.2.3.9. MIC-03-06-00056
BL 80-01	**OPERABILITY OF ADS VALVE PNEUMATIC SUPPLY** With respect to the reliability problem of ADS pneumatic supply (either nitrogen or air) system identified in Peach Bottom 2 and 3, the NRC requested each BWR utility to determine and report if hard-seat check valves have been installed to isolate accumulator systems, if periodic leak tests have been performed, and the seismic qualifications of the ADS pneumatic supply system.	N/A ADS is not installed in the US-APWR design.

Table 6.3-4 Response of US-APWR to Generic Letters and Bulletins (Sheet 8 of 11)

No.	Regulatory Position	US-APWR Design	
BL 93-02	**DEBRIS PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS** In Perry Nuclear Plant, a BWR-6, the debris consisted of glass fibers from temporary filters that had been inadvertently dropped into the suppression pool, and corrosion products that had been filtered from the pool by the glass fibers adhering to the surface of the ECCS strainer. This caused unexpectedly rapid loss of available NPSH. NRC requested all holders of an operating license for nuclear power reactors (both PWR and BWR) to: • Identify fibrous air filters or other temporary source of fibrous material, not designed to withstand a LOCA, which are installed or stored in primary containment. • Take prompt action to remove any such material and ensure to perform ECCS functions.	This issue is discussed in DCD Chapter 6, Subsection 6.2.2.2.6 and 6.2.2.3.	MIC-03-06-00057
BL 95-02	**UNEXPECTED CLOGGING OF A RESIDUAL HEAT REMOVAL (RHR) PUMP STRAINER WHILE OPERATING IN SUPPRESSION POOL COOLING MODE** In Limerick unit 1 which was being operated at 100% power, one safety relief valve was open. Cavitation was caused in the RHR pump which was operating to remove heat from suppression pool that received the fluid discharged from safety relief valve due to the fluctuation of motor current and flow rate. NRC requested the utility to review the operability of components such as ECCS and other pumps which draw suction from the suppression pool. In this bulletin, the NRC requested all holders of BWR operating licenses to take the following actions: • Review the operability of components such as ECCS and other pumps which draw suction from the suppression pool. The evaluation should be based on suppression pool cleanliness, suction strainer cleanliness, and the effectiveness of their foreign material exclusion practices. • The operability evaluation in the requested action above should be confirmed through appropriate test(s) and strainer inspection(s) within 120 days of the date of this bulletin. • In addition, addressees are requested to implement appropriate procedural modifications and other actions (e.g., suppression pool cleaning), as necessary, to minimize foreign material in the suppression pool, drywell and containment. Addressees are requested to verify their operability evaluation through appropriate testing and inspection.	This issue is discussed in Subsection 6.2.2.2.6 and 6.2.2.3.	MIC-03-06-00058

Table 6.3-4 Response of US-APWR to Generic Letters and Bulletins (Sheet 9 of 11)

No.	Regulatory Position	US-APWR Design	
BL 96-03	**POTENTIAL PLUGGING OF EMERGENCY CORE COOLING SUCTION STRAINERS BY DEBRIS IN BOILING-WATER REACTORS** NRC requested all BWR licensees to implement appropriate procedural measures and plant modifications to minimize the potential for clogging of ECCS suppression pool suction strainers by debris (e.g., insulations, corrosion products, other particulates (paint chips, and concrete dusts)) generated during a LOCA. All licensees are requested to implement these actions by the end of the first refueling outage starting after January 1, 1997.	This issue is discussed in Subsection 6.2.2.2.6 and 6.2.2.3.	MIC-03-06-00059
BL 01-01	**CIRCUMFERENTIAL CRACKING OF REACTOR PRESSURE VESSEL HEAD PNENETRATION NOZZLE** In the light of the axial cracking discovered at the reactor pressure vessel head penetration nozzle in Oconee Nuclear Station Unit 1 (PWR), NRC requested all holders of operating licenses for PWR to provide the requested information.	N/A RV head does not have penetration for safety injection in the US-APWR. ISI for the reactor vessel head is discussed in Subsection 5.2.4.	DCD_06.03-95
BL 02-01	**REACTOR PRESSURE VESSEL HEAD DEGRADATION AND REACTOR COOLANT PRESSURE BOUNDARY INTEGRITY** This bulletin supplemented the BL-2001-01 and recommended that, for inspection of reactor pressure vessel head penetration , visual examinations should be provided with supplemental examination (by surface or volumetric examination). The NRC also requested all PWR licensees to provide information related to the inspection programs to ensure compliance with applicable regulatory requirements.	N/A RV head does not have penetration for safety injection in the US-APWR. ISI for the reactor vessel head is discussed in Subsection 5.2.4.	DCD_06.03-95

Table 6.3-4 Response of US-APWR to Generic Letters and Bulletins (Sheet 10 of 11)

No.	Regulatory Position	US-APWR Design
GL2004-02	**POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY RECIRCULATION DURING DESIGN BASIS ACCIDENTS AT PRESSURIZED-WATER REACTORS** NRC requested all PWR licensee to perform a mechanistic evaluation of the potential for the adverse effects of post-accident debris blockage and operation with debris-laden fluids to impede or prevent the recirculation functions of the ECCS and CSS following all postulated accidents for which the recirculation of these systems is required, using an NRC-approved methodology. Individual addressees may also use alternative methodologies to those already approved by the NRC; however, additional staff review may be required to assess the adequacy of such approaches. Implement any plant modifications that the above evaluation identifies as being necessary to ensure system functionality.	This issue is discussed in Subsection 6.2.2.2.6, 6.2.2.3.~~, and following technical reports:~~ ~~MUAP-08001 "US-APWR Sump Strainer Performance"~~ ~~MUAP-08013 "US-APWR Sump Strainer Downstream Effects"~~ MIC-03-06-00060
GL 2008-01	**MANAGING GAS ACCUMULATION IN EMERGENCY CORE COOLING, DECAY HEAT REMOVAL, AND CONTAINMENT SPRAY SYSTEM** The U.S. Nuclear Regulatory Commission (NRC) is issuing this generic letter (GL) to address the issue of gas accumulation in the emergency core cooling, decay heat removal (DHR), and containment spray systems for following purposes: (1) to request addressees to submit information to demonstrate that the subject systems are in compliance with the current licensing and design bases and applicable regulatory requirements, and that suitable design, operational, and testing control measures are in place for maintaining this compliance (2)to collect the requested information to determine if additional regulatory action is required	In the US-APWR, the following design provisions are provided in order to prevent void forming in the system: - To reduce gas intrusion into the safety-related pump system, fully submerged strainers are installed to function as a vortex suppressor. - To mitigate any possible gas buildup in the RCS, a temperature instrument is installed on the line from the Engineered Safety Feature to the RCS for detection in the MCR. - To prevent boric acid water containing dissolved nitrogen from flowing back from the accumulator tank to RHRS, RHRS return line and accumulator injection line are segregated. - Pump test line is provided in order to allow the dynamic venting of the system through the periodic pump full-flow testing.

Table 6.3-4 Response of US-APWR to Generic Letters and Bulletins (Sheet 11 of 11)

No.	Regulatory Position	US-APWR Design
BL2003-01	**POTENTIAL IMPACT OF DEBRIS BLOCKAGE ON EMERGENCY SUMP RECIRCULATION AT PRESSURIZED-WATER REACTORS** NRC requested all PWR licensee to provide a response to state that the ECCS and CSS recirculation functions have been analyzed with respect to the potentially adverse post-accident debris blockage effects identified in this bulletin, taking into account the recent research findings described in the Discussion section, and are in compliance with all existing applicable regulatory requirements. Applicable Regulatory Guidance was Draft	Compliance with R.G 1.82 Rev.3 is discussed in Table 6.2.2-2.~~, and following technical reports:~~ ~~MUAP-08001 “US-APWR Sump Strainer Performance”~~ ~~MUAP-08013 “US-APWR Sump Strainer Downstream Effects”~~

MIC-03-06-00061

Table 6.3-5 Safety Injection System Design Parameters (Sheet 1 of 3)

Description	Specification
ECC/CS Strainer	
Type	Disk layer type
Number	4 sets
Surface Area	~~3,510~~2,754 ft^2 per train
Material	Stainless Steel
Design Flow	5,200 gpm per train
Hole diameter of perforated plate	0.066 inch
Debris Head Loss	~~4.7~~4.0 ft of water at ~~70~~120°F
Equipment Class	2
Seismic Category	I
Safety Injection Pump	
Type	Horizontal multi-stage centrifugal pump
Number	4
Power Requirement	970 kW
Design Flow	1,540 gpm
Design Head	1,640 ft.
Minimum Flow	265 gpm
Design Pressure	2,135 psig
Design Temperature	300°F
Maximum Operating Temperature	Approximately 250°F
Fluid	Boric Acid Water
NPSH Available	~~21.9 ft. at 1,540 gpm~~24.9 ft. Note 3
Design basis NPSH Required	~~15.7~~18.8 ft.
Material of Construction	Stainless Steel
Equipment Class	2
Seismic Category	I
Accumulator	
Type	Vertical Cylindrical Tank
Number	4
Capacity	3,180 ft^3 each
Design Pressure	700 psig
Design Temperature	300°F
Normal Operating Pressure	Approximately 640 psig
Normal Operating Temperature	70 ~ 120°F

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MIC-03-06-00063

Table 6.3-5 Safety Injection System Design Parameters (Sheet 2 of 3)

Description	Specification
Accumulator Safety Valve	1,500 ft^3/min (N_2) at 700 psig
Accumulator N_2 Supply Line Safety Valve Capacity	1,500 ft^3/min (N_2) at 700 psig
Fluid	Boric Acid Water (Approximately 4,000 ppm)
Material of Construction	Carbon steel vessel with stainless steel cladding
Auxiliaries	Flow Damper
Water Volume	≥2,126 ft^3 Note 1
Large Flow Injection Volume	≥1,326.8 ft^3 Note 2
Equipment Class	2
Seismic Category	I
Accumulator Injection Line Resistance	
Piping and Valves Equivalent Length (L/D)	≥ 461.7 ≤ 564.3
Orifice and Pipe Exit Resistance Coefficient	≥ 1.99 ≤ 2.21
NaTB Basket	
Type	Rectangular
Number	23
Total Buffering Agent Quantity (minimum)	44,100 pounds
Design Pressure	Atmosphere
Design Temperature	300°F
Normal Operating Temperature	70 ~120°F
Buffering Agent	Sodium Tetraborate Decahydrate
Material of Construction	Stainless Steel
Equipment Class	2
Seismic Category	I

Note:

1. This volume does not include dead volume.
2. Nominal value is 1,342 ft^3 .
3. Detail of NPSH available is described in Reference 6.2-34. MIC-03-06-00064

Table 6.3-5 Safety Injection System Design Parameters (Sheet 3 of 3)

Description	Specification
NaTB Basket Container	
Type	Semi-rectangular
Number	3
Capacity	A:1155ft^3, B:925ft^3, C:925ft^3
Design Pressure	Atmosphere
Design Temperature	300°F
Normal Operating Temperature	70 ~120°F
Fluid	Boric Acid Water
Material of Construction	Stainless Steel
Design Code	ASME Section III, Class 2
Equipment Class	2
Seismic Category	I
Refueling Water Storage Pit	
Type	Pit Type
Number	1
Capacity	81,230 ft^3
Design Pressure	Atmosphere Note 1
Design Temperature	~~300~~270°F
Temperature during normal operation	70 ~ 120°F
Peak Temperature following LOCA	Approximately ~~250~~256°F
Fluid	Boric Acid Water
Material of Construction	Stainless Steel
Equipment Class	2
Seismic Category	I

MIC-03-06-00065

MIC-03-06-00065

Note:

1. For structural design, an outside pressure occurring in accident 9.6 psi is reflected.

Tier 2

Chapter 7

Chapter 7 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07-07-30	Table 7.1-2	7.1-21 through 7.1-28	Response to RAI No. 688 MHI Letter No. UAP-HF-11055 Date 02/03/2011	Revised Table 7.1-21 for RAI response.	-
DCD_07.01-25	7.1.4 7.1.4.1, 7.1.4.1.1, 7.1.4.1.2, 7.1.4.1.2.1, 7.1.4.1.2.2, 7.1.4.1.2.3, 7.1.4.1.2.4, 7.1.4.1.3, 7.1.4.1.4, 7.1.4.1.5, 7.1.4.2, 7.1.4.2.2, 7.1.4.2.2.1, 7.1.4.2.2.2, 7.1.4.2.2.3, 7.1.4.2.2.4, 7.1.4.2.3 , 7.1.4.2.4, 7.1.4.2.5(New section)	7.1-17	Response to RAI No. 692 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Added new Subsection 7.1.4.	-
DCD_07.01-26	7.1.3.10	7.1-12	Response to RAI No. 698 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Added the last paragraph for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.01-28	7.1.3.8	7.1-11	Response to RAI No. 720 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Added the last paragraph for RAI response.	-
DCD_07.08-16	7.8.1.1.2 7.8.1.2.1 7.8.1.2.2	7.8-3 7.8-5	Response to RAI No. 700 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised the Subsections for RAI response.	-
DCD_07.05-18	7.5.1.1	7.5-2	Response to RAI No. 568 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised the Subsections for RAI response.	-
DCD_07.05-20	7.5.1.3	7.5-9	Response to RAI No. 656 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised the Subsection for RAI response.	-
DCD_07.06-16	7.6.1.4	7.6-4	Response to RAI No. 239 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Added the third paragraph for RAI response.	-
DCD_07.06-21	7.6.3	7.6-8	Response to RAI No. 638 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised the third paragraph for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.07-31	7.1.3.7 Table 7.1-2 (Sheet 6 of 8)	7.1-10 7.1-26	Response to RAI No. 688 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Added the fourth paragraph of Subsection 7.1.3.7 for RAI response. Revised Table 7.1-2 for RAI response.	-
DCD_07-21 BTP-4	Table 7.2-3	7.2-22	Response to RAI No. 593 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised Table 7.2-3 for RAI response.	-
DCD_07.09-19 DCD_07.09-20 DCD_07.09-21 DCD_07.09-22	7.9.2.7	7.9-8- 7.9-9 [7.9-8 7.9-9 7.9-10]	Response to RAI No. 701 MHI Letter No. UAP-HF-11127 Date 04/28/2011	Revised Subsection 7.9.2.7 for RAI response.	-
DCD_07.06-25	7.1.1.11 (new section) 7.6.1	7.1-7 7.6-1	Response to RAI No. 702 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the new Subsection 7.1.1.11. Revised Subsection 7.6.1 for RAI response.	-
DCD_07.06-26	7.1.1.11 (new section) Table 7.1-4(new table) 7.3.1.1 7.6.1 7.6.1.2 Figure 7.6-2	7.1-7 7.1-29 7.3-3 7.6-1 7.6-2 7.6-11 7.6-7	Response to RAI No. 702 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the new Subsection 7.1.1.11. Added the new Table 7.1-4. Revised Subsections 7.3.1.1, 7.6.1, 7.6.1.2, 7.6.2.5, 7.6.3 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.6.2.5 7.6.3			Deleted Figure 7.6-2.	
DCD_07.02-05	7.2.3.1	7.2-16	Response to RAI No. 727 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection for RAI response.	-
DCD_07.02-07	Table 7.2-8 7.2.3.1 Table 7.3-7 Figure 7.2-8 Figure 7.3-6 7.3.3.1 7.3.1.2 7.9.2.4	7.2-29 7.2-31 7.2-16 7.2-17 7.3-32 through 7.3-35 7.2-59 7.3-41 7.3-18 7.3-1 7.9-8	Response to RAI No. 727 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Deleted Tables 7.2-8 and 7.3-7 and Figures 7.2-8 and 7.3-6. Revised Subsections 7.2.3.1, 7.3.3.1, 7.3.1.2 and 7.9.2.4.	-
DCD_07.01-11	7.7.2.9 Table7.7-5	7.7-21 7.7-26	Response to RAI No. 229 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.7.2.9 for RAI response. Added the new Table 7.7.5 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.01-26	7.1.3.10	7.1-12	Response to RAI No. 698 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the last paragraph to Subsection 7.1.3.10 for RAI response.	-
DCD_07.02-3	7.2.1 7.2.1.4.3.1 7.2.1.4.3.2 7.2.5	7.2-2 7.2-9 7.2-18	Response to RAI No. 672 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsections 7.2.1, 7.2.1.4.3, 7.2.1.4.3.1, 7.2.1.4.3.2 and 7.2.5 for RAI response.	-
DCD_07.07-32	7.1.3.20 Table 7.1-5	7.1-17-7.1.18 7.1-29	Response to RAI No. 688 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the new Subsection 7.1.3.20 and Table 7.1-5 for RAI response.	-
DCD_07.08-16	Figure 7.8-5(new figure) Figure 7.8-6(new figure)	7.8-23	Response to RAI No. 700 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the new Figures 7.8-5 and 7.8-6 for RAI response.	-
DCD_07.09-12	7.9.2.7	7.9-8	Response to RAI No. 231 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.9.2.7 for RAI response.	-
DCD_07.09-21	7.9.2.7	7.9-8	Response to RAI No. 701 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.9.2.7 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_14.03.05-12	7.3.1.4 7.2.1.3 Table7.2-3 Table7.3-4	7.3-5 7.2-3 7.2-21 thorugh 7.2-23 7.3-26 7.3-27 7.4-3	Response to RAI No. 255 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.3.1.4 and 7.2.1.3 for RAI response. Revised Tables 7.2-3 and 7.3-4 for RAI respone.	-
DCD_14.03.05-31	7.4.1.1 7.4.1.5 7.4.1.6.2.1	7.4-1 7.4-3 7.4-6	Response to RAI No. 275MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.4.1.1, 7.4.1.5 and 7.4.1.6.2.1 for RAI response.	-
DCD_07.05-19	7.5.1.1.4 7.5.5	7.5-6 7.5-18	Response to RAI No. 656 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.5.1.1.4 for RAI response. Added the reference 7.5-22 for the RAI response.	-
DCD_07.01-30	Acronyms and Abbreviations	7-xvii 7-xviii	Response to RAI No. 722 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added items S-VDU and O-VDU.	-
DCD_07.01-27	7.1.3.16	7.1-16	Response to RAI No. 705 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsection 7.1.3.6 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.01-28	7.1.6	7.1-19	Response to RAI No. 705 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added a reference of 7.1-33 for RAI response.	-
DCD_07.01-29	7.1 7.1.2 7.1.3.17 7.1.6 Figure 7.1-2 Figure 7.1-3 7.2.1.4 7.2.1.4.1 7.2.1.4.8 7.2.2.3 7.2.3.2 Table 7.2-3 7.3.1.2 7.3.1.5.7 7.3.1.5.8.2 7.3.1.5.9 7.3.1.6 7.3.1.8 Table 7.3-4 7.4.1.5 Figure 7.4-1 7.5.1.1.4 7.5.1.3 7.5.1.5.1 7.5.1.6.1	7.1-1 7.1-7 7.1-16 7.1-19 7.1-31 7.1-32 7.2-4 7.2-10 7.2-11 7.2-14 7.2-17 7.2-21 through 7.2-23 7.3-3 7.3-10 7.3-11 7.3-13 7.3-15 7.3-26 7.3-27 7.4-4 7.4-18 7.5-5 7.5-7 7.5-9 7.5-12	Response to RAI No. 722 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised whole document to enhance its specificity for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.5.5 Table 7.5-4 Figure 7.5-3 7.6.1.1 7.7.1.1.11.3 7.7.1.5.2 7.7.2.10 7.8.1.1.2 7.8.5 Table 7.8-6 Table 7.8-7 7.9 7.9.1 7.9.1.5 7.9.2.1 7.9.2.3.6 7.9.2.8 7.9.2.9 Table 7.9-1 Figure 7.9-1	7.5-13 7.5-18 7.5-24 7.5-33 7.6-1 7.7-11 7.7-16 7.7-21 7.8-3 7.8-9 7.8-14 7.8-15 7.8-16 7.8-19 7.9-1 7.9-2 7.9-3 7.9-4 7.9-5 7.9-7 7.9-9 7.9-12 7.9-13			
DCD_07.01-30	7.1 7.1.1 7.1.1.1 7.1.1.2 7.1.1.3.3 7.1.1.4.2 7.1.1.5.4 7.1.1.8	7.1-1 7.1-2 7.1-3 7.1-4 7.1-5 7.1-6	Response to RAI No. 722 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised whole document to keep consistency among related documents for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.1.1.10 7.1.3.1 7.1.3.3 7.1.3.4 7.1.3.5 7.1.3.6 7.1.3.7 7.1.3.10 7.1.3.11 7.1.3.14 7.1.3.16 7.1.3.17 7.1.3.19 7.1.5 7.2.1 7.2.1.2 7.2-1-3 7.2.1.3 7.2.1.4.1 7.2.1.4.1.2 7.2.1.4.1.3 7.2.1.4.2.2 7.2.1.4.2.3 7.2.1.4.3.1 7.2.1.4.3.3 7.2.1.4.3.4 7.2.1.4.3.5	7.1-8 7.1-9 7.1-10 7.1-12 7.1-13 7.1-14 7.1-15 7.1-16 7.1-17 7.1-19 7.2-1 7.2-2 7.2-2 7.2-3 7.2-3 7.2-4 7.2-5 7.2-6 7.2-7 7.2-9			

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.2.1.4.4.1 7.2.1.4.4.2 7.2.1.4.5 7.2.1.4.6 7.2.1.4.8 7.2.1.5 7.2.1.6 7.2.1.6.2 7.2.1.7 7.2.1.9 7.2.2.1 7.2.2.2 7.2.2.7 7.2.2.7.1 7.2.2.7.2 7.2.3 7.2.3.1 7.2.3.2 7.2.3.5 Table 7.2-1 Table 7.2-2 Table 7.2-3 7.3.1 7.3.1.1 7.3.1.2 7.3.1.2.1 7.3.1.2.3 7.3.1.4 7.3.1.5 7.3.1.5.1 7.3.1.5.7	7.2-10 7.2-11 7.2-12 7.2-13 7.2-14 7.2-15 7.2-16 7.2-17 7.2-18 7.2-19 7.2-20 7.2-21 through 7.2-23 7.3-1 7.3-2 7.3-3 7.3-4 7.3-5 7.3-6 7.3-8 7.3-10 7.3-11			

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.3.1.5.8.2 7.3.1.6 7.3.1.6.1 7.3.1.6.2 7.3.1.8 7.3.1.9 7.3.2.1 7.3.2.2 7.3.2.7 7.3.3.2 Table 7.3-1 Table 7.3-2 Table 7.3-4 7.4.1.1 7.4.1.3 7.4.1.4 7.4.1.5 7.4.2.1 7.4.2.2 7.4.2.3 7.4.2.4 7.4.2.5 7.4.2.6 7.4.3 7.4.3.1 7.5.1 7.5.1.1 7.5.1.1.1 7.5.1.1.3.3 7.5.1.1.4 7.5.1.2.1	7.3-13 7.3-13 7.3-15 7.3-17 7.3-18 7.3-21 7.3-22 7.3-26 7.3-27 7.4-1 7.4-2 7.4-3 7.4-4 7.4-8 7.4-9 7.5-1 7.5-2 7.5-3 7.5-5 7.5-6 7.5-7			

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.5.1.3 7.5.1.4 7.5.1.5.1 7.5.3 7.5.5 7.6.1 7.6.1.1 7.6.1.2 7.6.1.3 7.6.1.4 7.6.1.5 7.6.1.6 7.6.1.7 7.6.2.2 7.6.3 7.6-4 7.7.1.1.2 7.7.1.1.3 7.7.1.1.6 7.7.2.1 7.7.2.3 7.7.2.8 7.7.2.10 7.7.5 7.8 7.8.1 7.8.1.1 7.8.1.1.1 7.8.1.1.2 7.8.1.2 7.8.1.2.3(new section) 7.8.2.2	7.5-9 7.5-10 7.5-11 7.5-12 7.5-16 7.5-18 7.6-1 7.6-2 7.6-3 7.6-4 7.6-5 7.6-5 7.6-7 7.6-8 7.7-3 7.7-4 7.7-6 7.7-18 7.7-20 7.7-21 7.7-22 7.8-1 7.8-2 7.8-3 7.8-4 7.8-5 7.8-6			

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.8.2.3 7.8.2.4 7.8.2.9 7.9 7.9.1.1 7.9.1.1.1 7.9.1.1.2 7.9.1.2 7.9.1.3 7.9.1.4 7.9.1.5 7.9.2.2 7.9.2.3 7.9.2.3.1 7.9.2.3.3 7.9.2.3.4 7.9.2.3.6 7.9.2.4 7.9.2.5 7.9.2.7 7.9.2.8 7.9.2.9 7.9.2.11 7.9.2.12 7.9.2.13 7.9.3 7.9-5	7.8-7 7.8-8 7.9-1 7.9-2 7.9-3 7.9-4 7.9-6 7.9-7 7.9-8 7.9-9 7.9-10 7.9-11			
DCD_07.01-27	7.1.3.20(new section)	7.1-17	Response to RAI No. 705 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added the new Subsection 7.1.3.20 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_SI64	7.1.3.5 7 7.1.3.12 7.1.6 7.2.1.4.8 7.4.3.2	7.1-9 7.1-13 7.1-19 7.2-11 7.2-10	Response to RAI No. SI36 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Revised Subsections 7.1.3.5, 7.1.3.7, 7.1.6, 7.2.1.4.8 and 7.4.3.2 for RAI response.	-
MIC-03-07-00001	7.1 7.1.2 7.1.3 7.1.3.7 7.1.3.10 7.1.3.14 7.1.3.17 7.1.6 7.2.1.4.8 7.2.5 7.3.1.2.1 7.3.1.5 7.3.1.11 7.3.1.12 Figure 7.3-3 7.4.2.2 7.5.1.1.1 7.5.1.1.3.1 7.5.1.1.4 7.5.1.5.1 7.5.5 7.7	7.1-1 7.1-7 7.1-9 7.1-10 7.1-12 7.1-14 7.1-16 7.1-19 7.2-10 7.2-11 7.2-18 7.3-4 7.3-6 7.3-16 7.3-38 7.4-8 7.5-4 7.5-4 7.5-5 7.5-12 7.5-18 7.7-1	Editorial Correction	Revised whole document for editorial correction.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	 7.8.1.1.2 7.8.2.1 7.8.2.8 7.9.1.5	7.8-3 7.8- 6 7.8-7 7.9-5			
MIC-03-07-00002	7.1 7.1.1.4.2 7.1.1.5.1 7.1.1.5.2 7.1.2 7.1.3 7.1.4.2.2.3 7.1.4.2.2.4 7.1.4.2.3 7.2.1 7.5.1.1 Figure 7.5-5 7.5.1.1.2 7.5.1.5.1 7.9.1.2 7.9.1.3 figure 7.1-1 7.9.2.3.2	7.1-1 7.1-4 7.1-5 7.1-7 7.1-36 7.1-39 7.2-1 7.3-2 7.5-1 7.5-4 7.5-12 7.5-35 7.9-2 7.9-3 7.1-30 7.9-7	Commitment to NRC	Revised whole document to describe about multidivisional S-VDU.	-
MIC-03-07-00003	7.1.1.5.2 7.1.3.6 7.4.1.5	7.1-5 7.1-9, 7.1-10 7.4-4	Commitment to NRC	Revised Subsections 7.1.1.5.2, 7.1.3.6 and 7.5.1.2 for Staff requests.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	7.5.1.2	7.5-7			
MIC-03-07-00004	7.7.1.13 (new section) 7.7.1.13.1 (new section) 7.7.1.13.2(new section) 7.9.1.1.2 7.9.5 Figure 7.3-4	7.7-18 7.7-18 7.9-1 7.9-11 7.3-39	Commitment to NRC	Added the new Subsections 7.7.1.13, 7.7.1.13.1 and 7.7.1.13.2 for Staff requests. Revised Subsections 7.9.1.1.2 and 7.9.5 for Staff requests. Revised Figure 7.3-4 for Staff requests.	-
MIC-03-07-00005	7.8.1.1.1 7.8.1.1.2 7.8.1.2.1 7.8.1.2.3 Table 7.8-1 Table 7.8-3 Table 7.8-4 Table 7.8-5 Table 7.8-6 Figure 7.8-4(new Figure) 7.9.2.2	7.8-2 7.8-3 7.8-5 7.8-10 7.8-11 7.8-12 7.8-13 7.8-14 7.8-23 7.9-6	Commitment to NRC MHI Letter No. UAP-HF-11145 Date 5/20/2011	Revised Section 7.8.	-
MIC-03-07-00006	7.1.3.13 7.1.3.17	7.1-14 7.1-16	Commitment to NRC. MHI Letter No. UAP-HF-11114	Added the last paragraph to Subsection 7.1.3.13. Revised Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			Date 4/20/2011	7.1.3.17.	
DCD_07.04-21	7.4.2.5	7.4-9	Response to RAI No. 671 MHI Letter No. UAP-HF-10350 Date 12/28/2010	Added the last paragraph to Subsection 7.2.4.5 for RAI response.	-
DCD_07.04-20	7.4.1.5	7.4-4	Response to RAI No. 671 MHI Letter No. UAP-HF-10350 Date 12/28/2010	Revised Subsection 7.4.1.5 for RAI response.	-
DCD_07.04-22	7.4.2.2	7.4-8	Response to RAI No. 671 MHI Letter No. UAP-HF-10350 Date 12/28/2010	Revised Subsection 7.4.2.2.	-
DCD_07.01-27	7.4.2.3 7.5.1.3 7.5.1.4 7.5.1.5 7.7.2.6 7.8.2.7	7.4-8 7.5-10 7.5-11 7.7-20 7.8-7	Response to RAI No. 705 MHI Letter No. UAP-HF-11159 Date 5/31/2011	Revised Subsections 7.4.2.3, 7.5.1.3, 7.5.1.4, 7.5.1.5, 7.7.2.6 and 7.8.2.7 for RAI response.	
DCD_07.02-3	7.2.1.4.3	7.2-6	Response to RAI No. 672 MHI Letter No. UAP-HF-11204 Date 07/1/2011	Added a paragraph to the Subsection 7.2.1.4.3 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.02.02-48	7.6.1.5 Figure 7.6-6	7.6-4 7.6-5 7.6-15	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Replaced Subsection 7.6.1.5 “CCW Supply and Return Header Tie Line Isolation Interlock” with “Not Used” because automatic isolation of the header tie line does not occur and manual action is required to achieve independence between trains. Deleted Figure 7.6-6 consistent with deletion of automatic interlocks for header tie line valves.	-
DCD_15.4.6-9	Table 7.5-5	7.5-25	Response to RAI No. 708 MHI Letter No. UAP-HF-11104 Date 04/15/2011	Revised the alarm for Inadvertent Decrease in Boron Dilution in RCS in Table 7.5-5	-
DCD_16-298	Table 7.5-5	7.5-25	Response to RAI No. 399 MHI Letter No. UAP-HF-11160 Date 05/30/2011	Deleted the second item for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.09-24	7.9.1.1.2	7.9-2	Response to RAI No. 778 MHI Letter No. UAP-HF-11244 Date 8/1/2011	Added a paragraph to the Subsection 7.9.1.1.2 for RAI response.	-
DCD_07.01-42	7.9.1.5	7.9-4 7.9-5	Response to RAI No. 771 MHI Letter No. UAP-HF-11244 Date 8/1/2011	Added a sentence to the Subsection 7.9.1.5 for RAI response.	-
DCD_09.02.02-48	7.6.1.5 Figure 7.6-6	7.6-4 7.6-5 7.6-15	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Revised the description of subsection 7.6.1.5 to reflect the interlock important to safety for non-safety portion isolation in CCWS. Revised the figure 7.6-6 to reflect the interlock of A2(C2) CCW supply line isolation	-
DCD_07.08-24	7.8 7.8.1.1 7.8.1.1.1 7.8.1.2 7.8.2.1 7.8.2.4 7.8.2.5 7.8.2.6	7.8-1 7.8-2 7.8-3 7.8-4 7.8-6 7.8-7	Response to RAI No. 775-5836 MHI Letter No. UAP-HF-11314 Date 09/13/2011	Revised Section 7.8 for RAI response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.08-23	7.8.1.1 7.8.1.2	7.8-2 7.8-4	Response to RAI No. 775-5836 MHI Letter No. UAP-HF-11314 Date 09/13/2011	Revised Subsections 7.8.1.1 and 7.8.1.2 for RAI response.	-
DCD_07.09-23	7.9.2.6 7.9.4	7.9-8 7.9-10	Response to RAI No. 710-5493 MHI Letter No. UAP-HF-11314 Date 09/13/2011	Deleted the last sentence of Section 7.9.2.6 for RAI response. Deleted the COL item 7.9(1) for RAI response.	-
DCD_07.08-17	Table 7.8-6	7.8-14	Response to RAI No. 753 MHI Letter No. UAP-HF-11329 Date 09/30/2011	Revised table 7.8-6 for RAI response	-
DCD_07.08-24	Table 7.8-7 (Sheet 5)	7.8-19	Response to RAI No. 775-5836 MHI Letter No. UAP-HF-11412 Date 11/29/2011	Revised Sheet 5 of Table 7.8-7 for RAI response	-
DCD_07.08-25	7.8.1.1.3	7.8-3	Response to RAI No. 829 MHI Letter No. UAP-HF-11142 Date 11/29/2011	Revised Section 7.8.1.1.3 for RAI response.	-
MIC-03-07-00008	7.8.1.2.2 7.8.1.2.3 Table 7.8-8 (new table) Table 7.8-9	7.8-5 7.8-20	MHI Letter No. UAP-HF-11314 Date 09/13/2011	Revised Sections 7.8.1.2.2 and 7.8.1.2.3 for RAI response. Added new Tables	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	(new table)			7.8-8 and 7.8-9 for RAI response.	
MIC-03-07-00009	7.6.3	7.6-8	MHI Letter No. UAP-HF-11352 Date 10/12/2011	Revised the Section 7.6.3 for response to NRC staff's request.	-
MIC-03-07-00009	Table 7.2-3 (sheet 3) Table 7.3-4 (sheet 2) Table 7.8-6	7.2-23 7.3-27 7.8-14	MHI Letter No. UAP-HF-11338 Date 10/04/2011	Revised Tables 7.2-3, 7.3-4 and 7.8-6 for response to NRC's request.	-

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is "-", the change was not made in a T/R.

Tier 2

Chapter 8

Chapter 8 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_15.0.0-24	8.2.3 8.2.4	8.2-9 8.2-11	Response to RAI No. 687 MHI Letter No. UAP-HF-11049 Date 02/25/2011	Added “The interface requirement for offsite power is maintaining a transmission system operating voltage of ±10% and a frequency of ±5% at the interface point between the transmission and offsite power system as defined in DCD Section 8.1.2.2. The COL Applicant is to perform a grid stability analysis to confirm this interface requirement.” Deleted “the main generator (turbine generator coast down) or” Added “Meeting the interface requirement, as described above, will ensure the availability of the power supply to the RCPs as assumed in Chapter 15.”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Replaced "The transient and accident analysis in Chapter 15 ignores this design feature. Added "The grid stability study shows in part that, with no external electrical system failures, the grid will remain stable and the transmission system voltage and frequency will remain within the interface requirements (±10% for voltage and ±5% for frequency) to maintain the RCP flow assumed in the Chapter 15 analysis for a minimum of 3 seconds following reactor/turbine (generator) trip."	
DCD_08.03.01-21 S01	8.3.1.1.9	8.3-30	Response to RAI No. 10 S01 MHI Letter No. UAP-HF-11378 Date 11/7/2011	added the following to the last paragraph of section 8.3.3 "The COL Applicant is to provide a testing methodology and cable monitoring program for	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				underground and inaccessible cables with the scope of the maintenance rule (10CFR 50.65).	
DCD_08.03.02-22	Table 8.3.2-1	8.3-88 through 8.3-91	Response to RAI No.388 MHI Letter No. UAP-HF-11403 Date 11/22/2011	Revised Table 8.3.2-1 to change the Load Current.	-
DCD_08.03.01-38	8.3.1.1.1 8.4.1.3 8.4.2.1.2 8.4.2.2	8.3-2 8.3-3 8.3-39 8.4-3 8.4-7 8.4-9	Response to RAI No. 394 MHI Letter No. UAP-HF-11404 Date 11/22/2011	Revised the description for adopting different manufacturers for the AAC GTG and Class 1E GTG ensures diversity.	-
DCD_08.04-12	8.4.2.1.2	8.4-7	Response to RAI No. 419 MHI Letter No. UAP-HF-11405 Date 11/22/2011	Deleted the description about Core and reactor coolant system (RCS) condition	-
DCD_15.0.0-24 S01	8.2.3 8.2.4	8.2-9 8.2-10	Response to RAI No. 687 MHI Letter No. UAP-HF-11295 Date 09/09/2011	Revised the third paragraph of subsection 8.2.3 from the previous revision shown in UAP-HF-11049 following the agreement of tel-meeting with NRC.	-

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is “-“, the change was not made in a T/R.

Tier 2

Chapter 9

Chapter 9 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_14.03.07-56	9.4.5.5	9.4-36	Response to RAI No. 675 MHI Letter No. UAP-HF-11021 Date 01/31/2011	Replaced “Table 3.D-2” with “Table 3D-2”. Replaced “Ref.9.4.8-12” with ” Ref.9.4.8-11” Replaced “Ref.9.4.8-13” with ” Ref.9.4.8-12” Replaced “Ref.9.4.8-14” with ” Ref.9.4.8-13”	-
DCD_06.04-14	9.2.7.2.1 9.2.7.2.2	9.2-45 9.2-46 9.2-48	Response to RAI No. 691 MHI Letter No. UAP-HF-11061 Date 03/09/2011	Revised the 6th paragraph of Subsection 9.2.7.2.1 for RAI response. Revised the 2nd paragraph of Subsection 9.2.7.2.2 for RAI response.	-
DCD_09.04.04-7	9.4.4.1.1	9.4-22	Response to RAI No. 713 MHI Letter No. UAP-HF-	Added description about “important for safety as the second sentence of	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
			11098 Date 04/06/2011	Subsection 9.4.4.1.1 Deleted “Therefore,” and added “for safety related nor SSCs important to safety,” in the third sentence.of Subsection 9.4.4.1.1	
RCOL2_12.03-12.04-11 S02	9.2.6.2.4 Figure 9.2.6-1	9.2-40 9.2-109	MHI Letter No. UAP-HF-11091 Date 04/6/2011	AAdded description about CST overflow in the last of the first paragraph of Subsection 9.2.6.2.4. Added CST overflow line in Figure 9.2.6-1	-
DCD_09.01.04-22	9.1.4.2.1.13 (new section) 9.1.4.2.2.2 Figure 9.1.4-3 (new figures)	9.1-28 9.1-28 9.1-61	Response to RAI No. 721 MHI Letter No. UAP-HF-11115 Date 04/20/2011	Added description about a permanent cavity seal. Added description about operation after leakage from the refueling cavity during refueling. Added a schematic figure of permanent cavity seal.	-
DCD_11.03-19	Table 9A-2(Sheet 236 of 292)	9A-521	Response to RAI No. 712 MHI Letter No. UAP-HF-11140 Date 5/17/2011	Revised Table 9A-2 reflected on DCD RAI #712 response.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
DCD_09.01.05 -18	9.1.5.2 9.1.5.3 Table 9.1.5-3	9.1-37 9.1-40 9.1-52	Response to RAI No. 616 MHI Letter No. UAP-HF-11175 Date 06/07/2011	Replaced “Table 9.1.5-3” with”Table 9.1.5-4”. Deleted description “equipment Hatch hoist”. Deleted description “,3” Deleted Title and content of Table 9.1.5-3.	-
DCD_09.01.03 -7	9.1.3.2.1.2 9.1.3.2.1.7 9.1.3.2.1.8 9.1.3.3.1	9.1-17 9.1-20	Response to RAI No. 735 MHI Letter No. UAP-HF-11187 Date 06/22/2011	Added description about SFPCS pump trip on low-low SFP level. Added description about the effect of failure to close the manual valves (or potential leakage) Added description about the effect of potential internally generated missiles on the purification portion of the SFPCS Added description about minimum SFP boiling time	-
DCD_09.05.08 -28	9.5.8.2.1 9.5.8.2.2.3 9.5.8.2.3 Figure 9.5.8-1	9.5-46 9.5-47 9.5-168	Response to RAI No. 704 MHI Letter No. UAP-HF-11207 Date 07/04/2011	Revised Subsection 9.5.8.2.1, 9.5.8.2.2.3, and 9.5.8.2.3 for RAI Response. Revised Figure 9.5.8-1 to reasons as discussed in RAI Response.	-
DCD_09.02.02 -70	9.2.7.1.2.1	9.2-44 [9.2-59]	Response to RAI No. 584	Revised the first sentence of first	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
			MHI Letter No. UAP-HF-11217 Date 07/15/2011	paragraph as follows; “The non-essential chilled water system, with the exception of piping and valves between and including the safety-related and seismic category I containment isolation valves, is classified as non-safety related	
DCD_09.02.02-71	9.2.7.1.1 9.2.7.3.1 9.2.7.5.1	9.2-43 [9.2-58] 9.2-48 [9.2-66] 9.2-50 [9.2-67]	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Added the following description. “GDC 2, GDC 4, GDC 44,” Revised the description of the fifth paragraph as follows; ”The safety-related portions of the ECWS are protected against natural phenomena and internal missiles” Deleted the description about safety related instrumentation and control associated with essential chilled water system.	-
DCD_09.02.02-72	9.2.7.2.1 9.2.7.2.1.1 9.2.7.2.1.1 9.2.7.2.1.2	9.2-45 9.2-46 9.248 [9.2-59,	Response to RAI No. 584 MHI Letter No. UAP-HF-	Added the following sentence in the first paragraph. “The operating data in	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
	9.2.7.2.1.2.1 9.2.7.2.1.2.2 9.2.7.2.1.2.3 9.2.7.2.2 9.2.7.2.2.1 9.2.7.2.2.1.1 9.2.7.2.2.1.2 9.2.7.2.2.1.3 9.2.7.2.2.1.4 9.2.7.3.1 Table 9.2.7-3 9.4.7	60, 61, 62, 63, 64, 65] 9.2-91[9.2-119] 9.4-499	11217 Date 07/15/2011	Table 9.2.7-1 are determined at the system operating point, which is based on the abnormal operation condition, and are considered bounding values.” Added the following in the forth paragraph. “The essential chiller units stop for one hour after a SBO occurs until alternate ac gas turbine generator restores power (Chapter 8, Section 8.4).” Added the ninth paragraph. Revised the tenth paragraph as follows; “The ECWS is a closed-loop system and water chemistry control of ECWS is performed by adding chemicals to the chemical feed tanks to prevent long-term corrosion that may degrade system performance.” Added the description about system operation of essential chilled water system.	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Added the description about alternate cooling in severe accident. Added the description about system operation of non-essential chilled water system. Revised second sentence of first paragraph to clarify Table No. Added the description about the essential chilled water pump Added Table 9.2.7-3. Revised the description of COL item 9.4(4).	
DCD_09.02.02-73	9.2.7.2.1.1	9.2-46 [9.2-62]	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Revised the description about the essential chilled water pump and the essential chilled water compression tank.	-
DCD_09.02.02-74	9.2.7.2.1.1 Figure 9.2.7-1 Figure 9.2.7-2 (sheet 1 and 2 of 3)	9.2-47 [9.2-62] 9.2-112 through 9.2-117[9.2-146 through	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Revised the description about the essential chilled water compression tank. Revised Figure 9.2.7-1 and sheet 1 and 2 of Figure 9.2.7-2.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
		9.2-151]			
DCD_09.02.02-78	9.2.7.5.1 9.2.7.5.2 Table 9.2.7-1 Table 9.2.7-2	9.2-50[9.2-67] 9.2-50[9.2-68] 9.2-89[9.2-116] 9.2-90, 91[9.2-117, 118]	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Corrected the editorial error in second paragraph. Revised the description about chiller units entering and leaving chilled water temperature, compression tank pressure, compression tank level, chilled water flowrate and chiller unit malfunction. Added “High and low level indication with an alarm of the compression tanks” as the instrumentation and controls serving the non-essential chilled system and provided in the MCR. Revised Table 9.2.7-1 and 9.2.7-2	-
DCD_09.02.02-79	9.2.7.2.1.1	9.2-47 [9.2-62]	Response to RAI No. 584 MHI Letter No. UAP-HF-11217 Date 07/15/2011	Revised the description about the essential chilled water compression tank.	-
DCD_09.02.02-48	9.2.2.2 9.2.2.2.1.5	9.2-17[9.2-	Amended Response to	Revised Subsection 9.2.2.2 to add additional	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
This change is superseded by the amend RAI Response.	9.2.2.5.4	25] 9.2-18[9.2-26] 9.2-19[9.2-30] 9.2-20[9.2-31] 9.2-26[9.2-40]	RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	description of isolation of non-safety piping. Revised Subsection 9.2.2.2.1.5 to remove automatic closure of header tie line isolation valves and the necessity to reopen the valves to provide RCP thermal barrier and spent fuel pool heat exchanger cooling. Added statement that the valves are operated from the MCR when an operator determines that train separation is required to Subsection 9.2.2.2.1.5. Add statement that closure time will not be so rapid as to cause a water hammer concern Subsection 9.2.2.2.1.5. Revised Subsection 9.2.2.5.4 to remove reference to automatic header tie line isolation on low-low surge tank water level.	
DCD_09.02.02-48	9.2.2.2 9.2.2.2.1.5 9.2.2.5.4	9.2-25 9.2-26 9.2-31 9.2-40	2nd Amended Response to RAI No. 571 MHI Letter	Revised Subsection 9.2.2.2 to add additional description of isolation of	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
		9.2-41	No. UAP-HF-11365 Date 10/27/2011	non-safety piping. Revised Subsection 9.2.2.2.1.5 to remove automatic closure of header tie line isolation valves and the necessity to reopen the valves to provide RCP thermal barrier and spent fuel pool heat exchanger cooling. Added statement that the valves are operated from the MCR when an operator determines that train separation is required to Subsection 9.2.2.2.1.5. Add statement that closure time will not be so rapid as to cause a water hammer concern Subsection 9.2.2.2.1.5. Revised Subsection 9.2.2.5.4 to remove reference to automatic header tie line isolation on low-low surge tank water level.	
DCD_09.02.02-49	9.2.2.2.1.3 9.2.2.3.2	9.2-18[9.2-29] 9.2-24[9.2-	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date	Revised Subsection 9.2.2.3.2 to reflect elimination of header tie line isolation valve on low-low surge tank level.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
This change is superseded by the amend RAI Response.		37, 38]	7/29/2011	Revised Subsection 9.2.2.3.2 to reflect that makeup capacity exceeds potential leak rate from all valves used to isolate nonsafety piping. Revised Subsection 9.2.2.3.2 to reflect that makeup capacity exceeds potential leak rate from CCWS seal failure. Revised Subsection 9.2.2.3.2 to reflect that surge tank makeup is not required for at least 7-days. Revised Subsection 9.2.2.3.2 to add statement regarding potential pump seal leakage. Revised Subsection 9.2.2.3.2 to add statement that the CCWS surge tanks have adequate capacity to accommodate potential leakage after a seismic event without degradation of system function. Revised Subsection	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				9.2.2.3.2 to delete reference to RWSP as potential source for surge tank makeup. Revised Subsection 9.2.2.3.2 to add reference to FSS as potential source for surge tank makeup. Revised Subsection 9.2.2.3.2 to add discussion supporting Technical Specification leak rate. Revised Subsection 9.2.2.2.1.3•to address CCWS tank capacity with respect to 7-day leakage. Revised Subsection 9.2.2.2.1.3•to modify description for consistency with surge tank design change.	
DCD_09.02.02-49	9.2.2.2.1.3 9.2.2.3.2 Table 9.2.2-3 (sheet 2) Table 9.2.2-5 Table 9.3.1-1 (sheet 3)	9.2-29 9.2-37 9.2-38 9.2-49 9.2-99 9.3-51 9.3-52	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Revised Subsection 9.2.2.3.2 to reflect elimination of header tie line isolation valve on low-low surge tank level. Revised Subsection 9.2.2.3.2 to reflect that makeup capacity exceeds potential leak rate from all valves used	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				to isolate nonsafety piping. Revised Subsection 9.2.2.3.2 to reflect that makeup capacity exceeds potential leak rate from CCWS seal failure. Revised Subsection 9.2.2.3.2 to reflect that surge tank makeup is not required for at least 7-days. Revised Subsection 9.2.2.3.2 to add statement regarding potential pump seal leakage. Revised Subsection 9.2.2.3.2 to add statement that the CCWS surge tanks have adequate capacity to accommodate potential leakage after a seismic event without degradation of system function. Revised Subsection 9.2.2.3.2 to delete reference to RWSP as potential source for surge tank makeup.	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Revised Subsection 9.2.2.3.2 to add reference to FSS as potential source for surge tank makeup. Revised Subsection 9.2.2.3.2 to add discussion supporting Technical Specification leak rate. Revised Subsection 9.2.2.2.1.3 to address CCWS tank capacity with respect to 7-day leakage. Revised Subsection 9.2.2.2.1.3 to modify description for consistency with surge tank design change. Revised Table 9.2.2-3, 9.2.2-5 and 9.3.1-1 to reflect the non-safety portion isolation.	
DCD_09.02.02-50	9.2.2.2.2.6	9.2-36	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Subsection 9.2.2.2.2.6 to add explanation that voiding in piping will not occur even in the event.	-
DCD_09.02.02-51	9.2.2.1.1 9.2.2.2.1.5 9.2.2.2.2	9.2-23 9.2-31 9.2-34	Response to RAI No. 571 MHI Letter	Revised Subsection 9.2.2.1.1 to•correct maximum CCWS heat	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
	9.2.2-7 (New Table) Figure 9.2.2-2	9.2-105 9.2-106 9.2-134 9.2-135 9.2-136 9.2-137 9.2-138 9.2-139]	No. UAP-HF-11237 Date 7/29/2011	exchanger outlet temperature during design basis accident from 110 °F to 125 °F. Revised Subsection 9.2.2.2.1.5 to add reference to new Table 9.2.2-7 which provides the electrical power division for CCWS motor and air operated valves. Revised Subsection 9.2.2.2.2•to add the following to the end of the paragraph: “Figure 9.2.2-2 provides system operating parameters for various locations and operating modes.” Revised Subsection 9.2.2.2.2•to add Figure 9.2.2-2 which provides pressure, temperature and flow rates for various CCWS configurations. Revised Subsection 9.2.2-1 to delete the RWSP as source for surge tank makeup and replace with FSS.	
DCD_09.02.02-52	9.2.2.1.2.1 9.2.2.1.2.2 9.2.2.1.2.3 9.2.2.1.2.4(Ne	9.2-24 9.2-25 9.2-27 9.2-28	Response to RAI No. 571 MHI Letter No. UAP-HF-	Changed title of Subsection 9.2.2.1.2.1 from “Normal Operation”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
	w Subsection) 9.2.2.1.2.5(New Subsection) 9.2.2.1.2.6(New Subsection) 9.2.2.2.1.1 Table 9.2.2-2 Table 9.2.2-4 Table 9.2.2-5	9.2-91 9.2-96 9.2-97 9.2-98 9.2-99	11237 Date 7/29/2011	to “Power Operation” Changed title of Subsection 9.2.2.1.2.2 from “Normal Plant Cooldown” to “Cooldown by CS/RHRS” Added Subsection 9.2.2.1.2.4, “Startup” Added Subsection 9.2.2.1.2.5, “Accident” Added Subsection 9.2.2.1.2.6, “Safe Shutdown” Editorial changes in subsection 9.2.2.1.2. Added description of CCWS heat exchanger “design” condition in subsection 9.2.2.2.1.1. , Added allowable CCWS heat exchanger supply	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				temperatures to loads for all operating modes in subsection 9.2.2.2.1.1. Add margin and the bases for margin determination in subsection 9.2.2.2.1.1. Added "UA" value for design condition in table 9.2.2-2. Editorial changes in table 9.2.2-2. Added heat loads for Startup and refueling operating conditions in table 9.2.2-4 Added note addressing effect of opening RCP cross-tie valves in table 9.2.2-4 Editorial changes in table 9.2.2-4 Added flow rates for Startup and Refueling operating conditions in	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				table 9.2.2-5. Added note addressing effect of opening RCP cross-tie valves in table 9.2.2-5. Editorial changes in table 9.2.2-5.	
DCD_09.02.02-53	9.2.2.2.1.2	9.2-28	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added summary description of CCWS head, flow margin in subsection 9.2.2.2.1.2.	-
DCD_09.02.02-54	9.2.2.2.2 9.2.2-6 (New Table)	9.2-34 9.2-100 9.2-101 9.2-102 9.2-103 9.2-104	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added description in subsection 9.2.2.2.2 that Tables 9.2.2-4 and 9.2.2-5 provide header information. Added reference in subsection 9.2.2.2.2 to new Table 9.2.2-6 for specific CCWS loads. Added new Table 9.2.2-6	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
DCD_09.02.02-56	9.2.2.2.1.5 9.2.2.2.2.1	9.2-33 9.2-34	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Subsection 9.2.2.2.1.5 to add RCP CCW tie line isolation valve numbers to heading. Revised Subsection 9.2.2.2.1.5 to add additional description regarding supply and return path. Revised Subsection 9.2.2.2.1.5 to add RCP CCW supply and return line isolation valve numbers to heading. Revised Subsection 9.2.2.2.1.5 to modify description regarding effect of opening RCP CCW tie line isolation valves. Revised Subsection 9.2.2.2.1.5 to modify description of “RCP CCW supply line isolation valve” to delete “P” signal isolation. Revised Subsection 9.2.2.2.1.5 to modify description of “RCP CCW return line isolation valve” to clarify use in conjunction with RCP CCW tie line isolation	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				valves for RCP cooling from alternate subsystem. Revised Subsection 9.2.2.2.1.5 to add RCP motor CCW supply line isolation valve numbers to heading. Revised Subsection 9.2.2.2.1.5 to modify description of "RCP motor CCW supply line isolation valve" to clarify valve usage. Revised Subsection 9.2.2.2.2.1 to add discussion of the use of the cross-tie valves. Revised Subsection 9.2.2.2.2.1 to add reference to DCD Subsection 13.5.2 for development of Operating and Maintenance procedures applicable to use of cross-tie valves.	
DCD_09.02.02-57	9.2.2.2.1.2 9.2.2.2.1.3 9.2.2.5.4 Table 9.2.2-2	9.2-28 9.2-29 9.2-30 9.2-40 9.2-41 9.2-91	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Subsection 9.2.2.2.1.2 to add description of design approach used to assure adequate NPSH and avoidance of potential	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				vortexing. Revised Subsection 9.2.2.2.1.3 to add statement regarding physical location of the CCWS surge tanks Revised Subsection 9.2.2.2.1.3 to add statement regarding surge tank elevation and piping arrangement for avoidance of gas accumulation. Revised Subsection 9.2.2.2.1.3 to address inspection accessibility. Revised Subsection 9.2.2.2.1.3 to clarify free volume capacity Revised Subsection 9.2.2.2.1.3 to add surge tank capability to accommodate inleakage Revised Subsection 9.2.2.2.1.3 to add effect of surge tank water volume change due to system temperature change Revised Subsection 9.2.2.5.4 to add description of level indication and level	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				control function Revised Subsection 9.2.2.5.4 to add basis for normal level setpoint and variation of level with temperature. Revised Subsection 9.2.2.5.4 to add discussion regarding surge tank leakage monitoring. Revised surge tank volume consistent with design change in Subsection 9.2.2.5.4 and Table 9.2.2-2.	
DCD_09.02.02 -58	9.2.2.2.2.4 9.2.2.3.2 9.2.2.3.5 Table 9.2.2-3 (Sheets 1,3,4)	9.2-35 9.2.2-37, 38 9.2-38 9.2-92 9.2-94 9.2-95	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Deleted automatic closure discussion for header tie line isolation valves in Subsection 9.2.2.2.2.4. Added header tie line isolation valve closure time discussion in Subsection 9.2.2.2.2.4. Reference COL item for closure header tie line isolation valve closure in Subsection 9.2.2.2.2.4. Revised discussion of closure of header tie line isolation valves to eliminate reference to	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				automatic closure in Subsection 9.2.2.3.2. Added discussion provided in the response to RAI Question 09.02.02-34, Item 2 in Subsection 9.2.2.3.2. Revised discussion to reflect that thermal barrier cooling will not be automatically isolated and that 4-inch bypass valves have been removed from the design in Subsection 9.2.2.3.5. Deleted reference to NCS-MOV-445A/B, 447A/B, 448A/B and update the FMEA in Table 9.2.2-3. Updated to reflect that automatic closure of NCS-MOV-020A/B and 007A/B has been deleted in Table 9.2.2-3. Reflect RCP cross tie operation in Item 1 in Table 9.2.2-3. Added a note to provide additional information for “Effect on System Safety Function” with regard to header tie line isolation	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				valves in Table 9.2.2-3.	
DCD_09.02.02-59	9.2.2.2.1.4	9.2-30	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added the description about regulatory compliance of the CCW supply line.	-
DCD_09.02.02-60	9.2.2.2.1.4 9.2.2.2.1.5 9.2.2.2.2.4 9.2.2.5.1	9.2-30 9.2-31 9.2-32 9.2-33 9.2-35 9.2-40	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Add statement in subsection 9.2.2.2.1.4 that piping related to RCP thermal barrier between check valves and motor-operated valves is designed for RCS rated conditions. Revise the description of Containment Spray/Residual Heat Removal Heat Exchanger (CS/RHRS HX) CCW Outlet Valve in subsection 9.2.2.2.1.5. Revise the description of RCP Thermal Barrier HX CCW Return Line Isolation valve in subsection 9.2.2.2.1.5. Revise the description of Containment Isolation Valve in subsection 9.2.2.2.1.5. Revise the description of	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Isolation valve between seismic category I portion and non-seismic category I portion in subsection 9.2.2.2.1.5. Add the description of the 10-second CCW pump start time delay in Subsection 9.2.2.2.2.4. Add basis for starting standby CCWS pump on low-pressure indication in Subsection 9.2.2.5.1.	
DCD_09.02.02-67	9.2.2.2.1.2 9.2.2.2.1.5 9.2.2.2.2.4 9.2.2.2.2.5 9.2.2.4.2	9.2-29 9.2-31 9.2-34 9.2-35 9.2-36 9.2-39	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Subsection 9.2.2.2.1.2 to add description of CCWS flow rate control. Revised Subsection 9.2.2.2.1.5 to add description of CCWS flow rate control to “Containment Spray/Residual Heat Removal Heat Exchanger (CS/RHRS HX) CCW Outlet Valve”. Revised Subsection 9.2.2.2.1.5 to add additional bullet and control function description for “Letdown Heat Exchanger Outlet Valve”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Revised Subsection 9.2.2.2.2.4 and 9.2.2.2.2.5 to add statement that operator must manually open the CV atmosphere gas sample cooler outlet valve during accident conditions. Revised Subsection 9.2.2.4.2 to correct spelling of "individual".	
DCD_09.02.02-68	9.2.2.2.1.2	9.2-29	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 07/29/2011	Added the reference in subsection 9.2.2.2.1.2 interlock with ESWS discussed in Subsection 9.2.1.2.3.1.	-
DCD_09.02.02-69	9.2.2.2.1.3 Figure 9.2.2-1 9.5.1.2.2	9.2-29 9.2-30 9.2-125 9.2-126 9.2-127 9.2-128 9.2-129 9.2-130 9.2-131 9.2-132 9.2-133 9.5-9 9.5-10	Response to RAI No. 576 MHI Letter No. UAP-HF-11238 Date 07/29/2011	Revised Subsection 9.2.2.2.1.3 to delete the PMWS (primary water) and RWSP as sources of CCWS makeup. Revised Subsection 9.2.2.2.1.3 and 9.5.1.2.2 to add FSS as a CCWS makeup source. Revised Figure 9.2.2-1•to change valve position of NCS-VLV-063A/B from "normally closed" to "locked closed" (LC).	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				Revised Figure 9.2.2-1•to delete PWMS (primary water makeup) line and associated valving to the CCWS. (PWMS deareated water supply path remains.) Revised Figure 9.2.2-1•to delete RWSP (makeup) line and associated valving to the CCWS. Revised Figure 9.2.2-1•to Add FSS line and associated isolation connection. Revised Figure 9.2.2-1•to delete locked closed "LC" designation from RCP cross-tie valves. Revised Figure 9.2.2-1•to add "LC" designation to boundary valves with FSS and VWS (NCS-VLV-321A/B, -322A/B, -323A/B, -324A/B, -325A/B, -326A/B)	
DCD_09.02.05-2	9.2.5.2.1	9.2-34 [9.2-49]	Response to RAI No. 286 MHI Letter No. UAP-HF-11232 Date	Added that makeup source is non-safety and ensures keeping the 30-day capacity volume during normal operation	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
			7/25/2011	to Subsection 9.2.5.2.1.	
DCD_09.02.05-8	9.2.5.2.1	9.2-34 [9.2-49]	Response to RAI No. 286 MHI Letter No. UAP-HF-11232 Date 07/25/2011	Added the description to Subsection 9.2.5.2.1 to identify that any leak from the CCWS heat exchanger which is interface between CCWS and ESWS does not allow mixing of the potentially radioactive CCW and the nonradioactive ESW because of the CCW heat exchangers structure.	-
DCD_09.02.01-32	9.2.1 9.2.1.1.1 9.2.1.1.3 9.2.1.2.2.1 9.2.1.2.3.1 9.2.10	9.2-1 9.2-3 9.2-7 9.2-16, 9.2-76	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 7/27/2011	Added a short summary which describes that ESWS functional requirements are standard plant design regardless of location although some structures (e.g. ESWPT and UHSRS) where some of ESWS components are located are site specific to the beginning of Subsection 9.2.1. Clarified the safety-related heat loads in Subsection 9.2.1.1.1. Added description regarding backwashing of the CCW heat exchanger to clarify the	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				heat exchanger backwashing is nonsafety-related design bases to Subsection 9.2.1.1.3. Clarified that the non-safety design basis is only for conceptual design in Subsection 9.2.1.1.3. Added the description regarding non-safety loads to Subsection 9.2.1.1.3. Revised Subsection 9.2.1.2.2.1 to refer to Subsection 9.4.5 which describes the design detail of the ESW pump house ventilation. Added the description regarding backwash operating of the CCW heat exchanger including the case with out of service train to Subsection 9.2.1.2.3.1. Revised Subsection 9.2.10, COL 9.2(6) to delete the requirement for selecting the mode of cooling of the ESWP motor.	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.02.01-33	9.2.1.1.3 9.2.1.2.2.3 9.2.1.3 9.2.10	9.2-2[9.2-3] 9.2-7[9.2-11, 12] 9.2-12[9.2-20] 9.2-58[9.2-76]	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.1.3 to add the description regarding the CCW heat exchanger backwashing operation. Added the description regarding the potential CCW heat exchanger fouling prevention, periodic inspection, monitoring, maintenance, performance and functional testing. Revised Subsection 9.2.1.3 and DCD Subsection 9.2.10 COL 9.2(7) to clarify what the COL 9.2(7) refers to and to what extent it applies to that part of the ESWS that is within scope for standard plant design.	-
DCD_09.02.01-35	9.2.1.3 9.2.10	9.2-35 9.2-76	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1 to identify which parts within SPDI that may be arranged in the outside of standard design scope building could be stagnant. Revised Subsection 9.2.10 COL 9.2(2) to describe that the COL applicant will handle heat tracing measures as	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				safety related.	
DCD_09.02.01-38	9.2.1.2.2.1 9.2.10	9.2-6 9.2-76	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.2.2.1 and Subsection 9.2.10 COL 9.2(6) will be revised to clarify testing requirement of the potential for vortex formation based on the most limiting assumptions for COL applicant.	-
DCD_09.02.01-40	9.2.1.2.3.1 9.2.1.5.7 Table 9.2.1-3 Table 9.2.1-4 Figure 9.2.1-1 (Sheet 1)	9.2-13 through 14 9.2-20 9.2-86 9.2-87 9.2-122	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.2.3.1, Table 9.2.1-3 and 4 to add the supplemental explanation for the detail of each operating modes. Revised Subsection 9.2.1.2.3.1 to add the detail description of the interlocks between the ESWS and CCWS. Revised Subsection 9.2.1.2.3.1 to clarify that not only the standby pump will be started but also the discharge MOV will be opened when the operating pump discharge header pressure becomes low. Revised Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				9.2.1.5.7 to add the supplemental information regarding the ESWS backup actuation interlock. Revised Figure 9.2.1-1 (Sheet 1 of 3) to make consistency with the description regarding the interlock between ESWS and CCWS in 9.2.1.2.3.1.	
DCD_09.02.01-41	9.2.1.5	9.2-20	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.5 to clarify that all instrumentation available in MCR also has local read out.	-
DCD_09.02.01-43	9.2.1.1.3 9.2.1.2.3.1 9.2.1.4 9.2.1.5.2 9.2.10 Table 9.2.1-2	9.2-2[9.2-3] 9.2-8[9.2-13] 9.2-10[9.2-16] 9.2-13[9.2-20] 9.2-14[9.2-21]	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Corrected typographical error.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
		9.2-60[9.2-78] 9.2-63 through 67[9.2-81 through 85]			
DCD_09.02.01-44	9.2.1.3	9.2-12[9.2-18, 19]	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.3 to refer to Subsection 3.4.1.5.2.2 which describes detail of the flood protection.	-
DCD_09.02.01-49	9.2.1.2.3.1	9.2-10[9.2-16]	Response to RAI No. 585 MHI Letter No. UAP-HF-11235Date 07/27/2011	Revised Subsection 9.2.1.2.3.1 to add the CDI information which describes regarding the detail of the void detection system.	-
DCD_09.02.01-52	9.2.1.2.2.2 9.2.1.2.2.3 9.2.1.5.3 Table 9.2.1-1 Table 9.2.1-2 (Sheets 3,4)	9.2-6, 7[9.2-7 through 10] 9.2-7[9.2-12] 9.2-14[9.2-21] 9.2-62[9.2-	Response to RAI No. 585 MHI Letter No. UAP-HF-11235 Date 07/27/2011	Revised Subsection 9.2.1.2.2.2 to state that Figure 9.2.1-1 has the valve ID markings to match the DCD description to make it clear which valves are being referred. Clarified the definition and details of each operating mode of the strainer in Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
		80] 9.2-65[9.2-83] 9.2-66[9.2-84]		9.2.1.2.2.2. Clarified that the actual fouling factor will not exceed the design fouling factor for at least the duration required for UHS capacity of 30 days or minimum of 36 days for a cooling pond in 9.2.1.2.2.3. Revised Subsection 9.2.1.5.3 to clearly delineate that the differential pressure instrumentation of the strainer and/or alarm is credited post accident. Revised Table 9.2.1-1 to clarify that the power supply to the strainers including their associated components are Class 1E. Revised Table 9.2.1-2 item 3 and 4 to add the plant operating mode of “startup, normal shutdown, normal operation, refueling, cooldown” to safety function of “starts and opens to provide flow path to backwash flow before strainer clogging to maintain ESW supply	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				to CCW HX."	
DCD_09.02.02 -80	9.2.2.2 9.2.7.2.1 9.3.4.2.6.1	9.2-26 9.2-27 9.2-61 9.3-30	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 07/29/2011	Revised Subsection 9.2.2.2, 9.2.7.2.1 and 9.3.4.2.6.1 to add the description regarding operation during severe accident such as charging pump cooling by non-essential chilled water system or the fire water supply system and the cooling of containment fan coolers by the CCWS.	-
DCD_09.02.02 -81	9.1.3.2.1.3 9.1.3.2.1.4 9.2.1.2.2.3 9.2.2.2.1.3	9.1-17 9.2-12 9.2-30	Amended Response to RAI No. 699 MHI Letter No. UAP-HF-11240 Date 7/29/2011	Added description about reference to EPRI TR 1013470 for industry lessons learned on potential blockage. in Subsection 9.1.3.2.1.3 Added description about filter capability with respect to heat exchanger flow passages in subsection 9.1.3.2.1.4. Added description about reference to EPRI TR 1013470 for industry lessons learned on potential blockage and leakage in Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				9.2.1.2.2.3. Add discussion regarding strainers in piping from surge tank makeup sources in Subsection 9.2.2.2.1.3.	
DCD_14.03.06-28	Figure 9.5.4-1 Figure 9.5.6-1	9.5-165 9.5-166	Response to RAI No. 754 MHI Letter No. UAP-HF-11222 Date 7/15/2011	Revised Figure 9.5.6.1 and Figure 9.5.4.1.	-
DCD_09.05.02-6	9.5.2 9.5.2.2.2.2 9.5.9 9.5.10	9.5-16 9.5-22 9.5-49 9.5-52 9.5-53	Supplemental Response to RAI No. 139 MHI Letter No. UAP-HF-11234 Date 07/26/2011	Deleted the description about security and detection systems in second paragraph of Subsection 9.5.2. Revised the description about security in the third paragraph of Subsection 9.5.2. Deleted the last sentence of Subsection 9.5.2.2.2.2. Deleted COL information items COL 9.5(7) and COL 9.5(9) in Subsection 9.5.9. Deleted references 9.5.2-23, 9.5.2-28 and 9.5.2-29 in Subsection	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				9.5.10.	
RCOL2_12.03-12.04-11 S03	9.2.6.2.4	9.2-40	MHI Letter No. UAP-HF-11253 Date 8/3/2011	Revised description about CST overflow in the last of the first paragraph of Subsection 9.2.6.2.4 to a new paragraph.	-
RCOL2_12.03-12.04-11 S03	9A.3.104 9A.3.105 9A.3.106 9A.3.107 9A.3.108 9A.3.109 9A.3-110 9A-3.111 9A-3.112 9A-3.113 9A.3-114 9A.3-115 9A.3-116 9A-3.117 9A-3.118 9A.3-119 9A.3-120 9A.3-121 9A.3-122 9A.3-123 9A.3-124 9A.3-125 9A.3-126 9A.3-127 9A.3-128	9A-203 9A-204 9A-207 9A-209 9A-211 9A-213 9A-214 9A-217 9A-219 9A-221 9A-223 9A-225 9A-226 9A-228 9A-230 9A-231 9A-233 9A-235 9A-236 9A-238 9A-240 9A-241 9A-243 9A-244 9A-245 9A-246	MHI Letter No. UAP-HF-11253 Date 8/3/2011	Deleted description about radiological material from the paragraph of “Radioactive Release to Environment Evaluation” in each subsection.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.04.03-16	9.4.3.2.1 Figure 9.4.3-1	9.4-13 9.4-79	Response to RAI No. 779 MHI Letter No. UAP-HF-11259 Date 08/11/2011	In fifth paragraph of subsection 9.4.3.2.1, replaced “208,000 ft^3/min” as the total exhaust airflow of two auxiliary building exhaust fans with “216,000 ft^3/min” to be consistent with Table 9.4.3-1. Revised Figure 9.4.3-1.	-
DCD_09.04.03-15	9.4.3.2.1	9.4-13	Response to RAI No. 779 MHI Letter No. UAP-HF-11259 Date 08/11/2011	Added the following as the last sentence of fifth paragraph of subsection 9.4.3.2.1. “Backdraft dampers are provided in the ventilation duct supplying and exhausting uncontrolled areas to prevent backflow from the auxiliary building HVAC system.”	-
DCD_09.04.03-14	9.4.6.2.4.1	9.4-43	Response to RAI No. 779 MHI Letter No. UAP-HF-11259 Date 08/11/2011	In eighth paragraph of subsection 9.4.3.2.1, replaced “When exhaust from the auxiliary building HVAC system is filtered by the containment low volume purge exhaust filtration unit, …” with “Before exhaust from the auxiliary building HVAC system is aligned to the containment low volume	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				purge exhaust filtration unit, …”	
DCD_09.02.02-84	9.2.2.1.1	9.2-15	Response to RAI No. 774 MHI Letter No. UAP-HF-11263 Date 08/12/2011	Added reference to CCWS capability to support all operating modes, including accident conditions.	-
DCD_19-535	9.5.1.2.1 9A Legend	9.5-6 9A-610	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 9.5.1.2.1and page 9A-610 are revised to include the pressure resistance capability of penetration seals and dampers.	-
DCD_09.01.02-25	9.1.3.3.2	9.1-20	Response to RAI No. 806 MHI Letter No. UAP-HF-11293 Date 9/2/2011	Reference number has been corrected.	-
DCD_09.03.04-25	9.3.4.2.6.10	9.3-32	Response to RAI No. 828 MHI Letter No. UAP-HF-11321 Date 9/22/2011	Description of vacuum condition prevention has been added.	-
DCD_09.04.05-21	9.4.8	9.4-51	Response to RAI No. 825 MHI Letter No. UAP-HF-11345 Date 10/06/2011	Revised the last part of the title for Ref.9.4.8-30 from “November, 2010” to “March 2011”.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.04.01-28	9.4.1.2.2.1	9.4-5	Response to RAI No. 827 MHI Letter No. UAP-HF-11348 Date 10/07/2011	Revised the last bullet from "In the emergency pressurization mode of operation, the MCR HVAC system design airflow rate is 20,000 cfm and the make-up design airflow rate is less than 600 cfm." to "In the emergency pressurization mode of operation, the MCR HVAC system design airflow rate is 20,000 cfm with two MCR air handling units operating and the make-up design airflow rate is less than 600 cfm with one MCR emergency filtration unit operating."	-
DCD_09.02.02-64	9.2.2.2	9.2-26	Response to RAI No. 571 MHI Letter No. UAP-HF-10160 Date 06/8/2010	Added the description about periodic inspections of CCWS piping.	-
DCD_09.02.02-62	9.2.2.2	9.2-26	Response to RAI No. 571 MHI Letter No. UAP-HF-10160 Date 06/8/2010	Added the description about the butterfly valves in CCWS.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
DCD_09.02.02 -65	9.2.2.4.2	9.2-39	Response to RAI No. 571 MHI Letter No. UAP-HF-10160 Date 06/8/2010	Added the description about periodic pressure and functional testing of components.	-
DCD_09.02.02 -66	9.2.2.5.2	9.2-40	Response to RAI No. 571 MHI Letter No. UAP-HF-10160 Date 06/8/2010	Added the description about the radiation monitoring.	-
DCD_09.02.06 -3	9.2.6.2.4	9.2-55 9.2-56	RAI No. 863 MHI Letter No. UAP-HF-11432 Date 12/15/2011	Added description about a diaphragm in the first paragraph. Added the third sentence about impact on safety-related SSCs.	-
DCD_09.01.03 -8	9.1.3.3.1 9.1.3.5 9.1.3.5.1 9.1.3.5.3 9.1.3.5.4 Figure 9.1.3-1	9.1-20 9.1-22 9.1-23 9.1-58	Response to RAI No. 756 MHI Letter No. UAP-HF-11255 Date 8/10/2011	Added the description regarding SFP cooling recovery during LOOP condition. Added the information of SFP level, SFP temperature and SFP pump discharge flow.	-
DCD_11.03-19	9A.3.129 Table 9A-1(sheet 14 of 16) Table 9A-2 (Sheet 236 of	9A-247 9A-248 9A-283	Response to RAI No. 712 amended MHI Letter No. UAP-HF-11397 Date	9A.3.129: Added “FA4-101-25”, “Auxiliary Building Equipment Room” and “6.5E+05” at the last of list of 9A.3.129. 9A.3.129: Added “FA4-101-25 is provided with air aspirating VESDA	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
	292) Table 9A-2 (Sheet 259 of 292) (new sheet) Table 9A-3 (sheet 26, 27 ,29 of 32) Figure 9A-13 Figure 9A_16	9A-521 9A-543 9A-603 9A-604 9A-606 9A-623 9A-626	11/21/2011	and manual fire alarm pull station as secondary detection. Primary fire suppression is provided from wet pipe sprinkler. Secondary suppression is provided from fire hose station.” at the paragraph of Fire Detection and Suppression Features. 9A.3.129: Added “The air aspirating fire alarm system is designed for industrial environments and not subject to inadvertent actuation.” at the paragraph of Fire Protection System Integrity. Table 9A-1(sheet 14 of 16): Added “A/B”, “N”, “FA4-101”, “FA4-101-25” and “Auxiliary Building Equipment Room”. Table 9A-2 (Sheet 236 of 292): Deleted “Filters” and “8.9E+06”at the Potential Combustibles. Replaced “19,650” with “19,400” at the Floor Area. Table 9A-2 (Sheet 259 of 292): Added new sheet. Table 9A-3 (sheet 26 of 32): Added “, FA4-101-25” at the wall of FA4-101-01. Table 9A-3 (sheet 27 of 32): Added “, FA4-101-25” at the Floor of FA4-101-04. Table 9A-3 (sheet 29 of	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				32): Added the Fire Zone "FA4-101-25" at the Table 9A-3 (sheet 29 of 32). Figure 9A-13: Revised Figrue 9A-13 to reflect the layout drawing changes and the new Fire Zone added. Figure 9A-16: Revised Figrue 9A-16 to reflect the layout drawing changes and the FIRE AREA BOUNDARY changes.	
MIC-03-09-00001	Table 9.5.1-2 (sheet 19) 9A.3.79 9A.3.136 9A.3.137 9A.3.138 9A.3.139 9A.3.140 9A.3.141 Table 9A-2 (Sheets 192, 283 through 286)	9.5-117 9A-161 9A-257 9A-259 9A-261 9A-263 9A-265 9A-266 [9A-267] 9A-477 9A-568 through 9A-571	Result of the meeting with NRC (09/14/2011)	Table 9.5.1-2 (sheet 19), First column: Replaced "Conform" with "Conformance with Exceptions". and added the following description to the Remarks. "The fire areas, which separate from the other trains with 3-hour fire rating barriers and have minimal fire load to support propagation through fire area, have no automatic fire detection.". 9A.3.79: Deleted the following description. "9. AUXILIARY SYSTEMS US-APWR Design Control Document Tier 2 9A-157 Revision 23". Subsection 9A.3.136,	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R* *
				137, 139 and 140: Fire Detection and Suppression Features: Replaced "…and a manual fire alarm pull station is installed as primary manual fire detection." with "…and vapor and liquid detection system is installed as primary automatic fire detection" Added the following description to the third sentence "Secondary detection is provided by a manual fire alarm pull station." 9A.3.138, 9A.3.141: Fire Detection and Suppression Features: Replaced "…and a manual fire alarm pull station is installed as primary manual detection" with "…and vapor and liquid detection system is installed as primary automatic fire detection.". Added the following description to the third sentence. "Secondary detection is provided by a manual fire alarm pull station.". Table 9A-2 (Sheet 192), Suppression System Operates: Replaced "A quickly detected and suppressed fire in this room will minimize fire damage to the safety-related	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				equipment consistent with GDC-3." with "Manual fire hose stations and portable fire extinguishers are available in the vicinity." Table 9A-2 (Sheets 283 through 286), Suppression System Operates: Replaced "A quickly identified and suppressed fire will minimize damage and after event cleanup." with "Portable fire extinguishers are available in the vicinity."	
MIC-03-09-00002	Table 9.5.1-2 (sheet 19)	9.5-117	Editorial	First column: Deleted "Chapter 7,". Second column: Deleted "Chapter 7,". Fifth column: Deleted "Chapter 5,", "Chapter 8," and two "Chapter 9,"	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is "-", the change was not made in a T/R.

Table 9.5.1-2 US-APWR Fire Protection Program Conformance with NFPA 804 (Sheet 19 of 62)

Standard Requirement	Paragraph	Conformance	Remarks
The fire barrier forming the separate fire areas specified in ~~Chapter 7,~~ Section 7.4.3 shall have a 3-hour fire rating and automatic area-wide detection shall be installed throughout the fire areas, unless all the following criteria are met: (1) The fire barriers forming the fire areas shall have a minimum fire-resistive rating of 1 hour. (2) Automatic area-wide detection and suppression shall be installed throughout the fire areas. (3) Structural steel forming a part of or supporting the fire barriers shall be protected to provide fire resistance equivalent to that of the barrier.	7.4.3.2	~~Conform~~Conformance with Exceptions	The fire areas, which separate from the other trains with 3-hour fire rating barriers and have minimal fire load to support propagation through fire area, have no automatic fire detection.
Structural steel forming a part of or supporting the fire barriers shall be protected to provide fire resistance equivalent to that of the 3-hour fire-rated barrier specified in ~~Chapter 7,~~ Section 7.4.3.2.	7.4.3.3	Conform	
Fire areas separated by minimum 3-hour fire-rated barriers shall be established to separate redundant safety divisions and safe shutdown functions from fire hazards in nonsafety or safe shutdown–related areas of the plant.	7.4.4	Conform	
In fire areas containing components of either a nuclear safety–related or safe shutdown system, special attention shall be given to detecting and suppressing fire that can adversely affect the system.	7.4.5	Conform	
Measures that shall be taken to reduce the effects of a postulated fire in a given fire area include the following: (1) Limiting the amount of combustible materials (see ~~Chapter 5,~~ Section 5.3) (2) Providing fire-rated barriers between major components and equipment to limit fire spread within a fire area (see ~~Chapter 8,~~ Section 8.1) (3) Installing fire detection (see ~~Chapter 9,~~ Section 9.8) and fixed suppression systems (see ~~Chapter 9,~~ Section 9.6)	7.4.6	Conform	
Procedures shall be developed for actions necessary to achieve FSSD.	7.5.1	COL	COL Item 9.5(1)

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The combustible loading in this area is light and a fire of sufficient size and intensity to compromise the fire barrier boudaries is not deemed credible.

The fire protection system for this room is designed in accordance with NFPA 72 and 14, and is the combination of smoke detectors and manual hose stations. Based on the expected fire hazards within the compartment during normal operation and the maximum expected fire during equipment maintenance, the 3-hour fire rated boundaries of the compartment are more than sufficient to contain any unsuppressed fire that can be ~~9. AUXILIARY SYSTEMS US-APWR Design Control Document Tier 2 9A-157 Revision 23~~ expected to occur within the compartment. On this basis, there is adequate fire protection provided for this compartment (fire area). MIC-03-09-00001

Fire Protection System Integrity

The fire protection capability for this area is provided from manual hose streams applied by the plant fire brigade. The standpipe is designed to code (NFPA 14) and unlikely to release water except after extreme seismic events. The fire protection piping is seismically supported so that any failure will not cause the piping to impact any safety-related equipment. Unintended operation of the fire suppression activity is not expected since deliberate manual activation is required to operate a hose station valve and release water. In the event of a fire, the equipment within the area is protected from significant water intrusion since wiring is located in overhead areas and the small amount of panels, controls and instrumentation are located off the floor by a distance that allows for some water buildup on the floor.

Safe Shutdown Evaluation

A fire in this area has the potential to damage the following typical systems of safe-shutdown function.

- A-CS/RHRS
- A-Safety Depressurization Valve (train-A)

Since this fire area is separated from the Train B, C and D areas by 3-hour fire rated barriers, two safety trains of equipment in other fire areas can achieve and maintain safe-shutdown from full power, and the fire in this fire area, therefore, will not adversely impact the ability of safe-shutdown.

Radioactive Release to Environment Evaluation

This area is located in the south R/B portion of the plant which is within the non-radiologically controlled access area of the R/B. Radiological material is not allowed within this building area by administrative controls. There are no piping systems in the area that could contain fluids with radiological content. As such, a fire in this area is not deemed credible of causing a radioactive release to the environment.

Fire Protection System Integrity

Since there are no automatic or manual system within the tunnel, the fire protection system integrity for this area is assured by the significant protection provide by the structural fire protection provided.

Safe Shutdown Evaluation

A fire in this area has the potential to damage the following typical systems of safe-shutdown function.

- D-ESWS
- D-Safety Instrumentation System

Since this fire area is separated from the train A, B, and C areas by 3-hour fire rated barriers, two safety trains of equipment in other fire areas can achieve and maintain safe-shutdown from full power, and the fire in this fire area, therefore, will not adversely impact the ability of safe-shutdown.

Radioactive Release to Environment Evaluation

The essential service water piping tunnel is a non-radiological area with no piping system containing radioactive material and no other radioactive material located within the area. As such, any fire that could occur within the piping tunnel is not deemed capable of producing a radioactive release.

9A.3.136 FA7-401 Power Source Fuel Storage Vault

Figure 9A-27 shows the location of this fire area adjacent to the south portion of the East PS/B. This fire area consists of the single fire zone, FA7-401-01, A-Class 1E GTG Fuel Storage Vault and a dedicated access tunnel that connects the vault to the PS/B. The access tunnel also serves as a pipe and cable chase from the PS/B to the voult. This vault accommodates the GTG fuel storage tank with a capacity of 119,000 gallons. Also, in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-401-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression, and vapor and liquid detection system is installed as primary automatic fire detection~~and a manual fire alarm pull station is installed as primary manual fire detection~~. Secondary suppression is provided by a manual hose station and a portable fire extinguisher. Secondary detection is provided by a manual fire alarm pull station. Vapor MIC-03-09-00001 MIC-03-09-00001

cables and equipment in the area would be protected from significant water intrusion since they are installed above the floor elevation above expected flooding levels.

Safe Shutdown Evaluation

A fire in this area has the potential to damage the following typical system of safe-shutdown function.

- A-Class 1E Power system (Fuel Oil)

This fire area is separated from the Train B, C, and D areas by 3-hour fire rated barriers. This separation will ensure that other safety trains will not be affected by a fire originating in this area and the remaining safety trains of equipment in other fire areas can achieve and maintain safe-shutdown of the plant. Therefore, a fire originating in one of the GTG fuel oil storage vaults will not adversely impact the ability to achieve and maintain safe-shutdown.

Radioactive Release to Environment Evaluation

This area is located in non-radiological area. There are no piping systems in the area that could contain fluids with radiological content. As such, a fire in this area is not deemed credible of causing a radioactive release to the environment.

9A.3.137 FA7-402 Power Source Fuel Storage Vault

Figure 9A-27 shows the location of this fire area adjacent to the south portion of the East PS/B. This fire area consists of the single fire zone, FA7-402-01, B-Class 1E GTG Fuel Storage Vault and a dedicated access tunnel that connects the valut to the PS/B. The access tunnel also serves as a pipe and cable chase from the PS/B to the vault. This vault accommodates the GTG fuel tank with a capacity of 119,000 gallons. Also, in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-402-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression, and vapor and liquid detection system is installed as primary automatic fire detection.~~and a manual fire alarm pull station is installed as primary manual fire detection.~~ MIC-03-09-00001 Secondary suppression is provided by a manual hose station and a portable fire extinguisher. Secondary detection is provided by a manual fire alarm pull station. MIC-03-09-00001 Vapor and liquid detection systems are provided in accordance with NFPA 30. They alarm locally and to the MCR.

Safe Shutdown Evaluation

A fire in this area has the potential to damage the following typical system of safe-shutdown function.

- B-Class 1E Power system (Fuel Oil)

This fire area is separated from the Train A, C, and D areas by 3-hour fire rated barriers. This separation will ensure that other safety trains will not be affected by a fire originating in this area and the remaining safety trains of equipment in other fire areas can achieve and maintain safe-shutdown of the plant. Therefore, a fire originating in one of the GTG fuel oil storage vaults will not adversely impact the ability to achieve and maintain safe-shutdown.

Radioactive Release to Environment Evaluation

This area is located in non-radiological area. There are no piping systems in the area that could contain fluids with radiological content. As such, a fire in this area is not deemed credible of causing a radioactive release to the environment.

9A.3.138 FA7-403 Power Source Fuel Storage Vault

Figure 9A-27 shows the location of this fire area adjacent to the south portion of the East PS/B. This fire area consists of the single fire zone, FA7-403-01, A-AAC GTG Fuel Storage Vault and a dedicated access tunnel that connects the vault to the PS/B. The access tunnel also serves as a pipe and cable chase from the PS/B to the vault. This vault accommodates GTG fuel storage tank with a capacity of 119,000 gallons. Also, in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-403-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression, and vapor and liquid detection system is installed as primary automatic fire detection.~~and a manual fire alarm pull station is installed as primary manual detection.~~ MIC-03-09-00001 Secondary suppression is provided by a manual hose station and a portable fire extinguisher. Secondary detection is provided by a manual fire alarm pull station. MIC-03-09-00001 Vapor and liquid detection systems are provided in accordance with NFPA 30. They alarm locally and to the MCR.

Smoke Control Features

Smoke removal as required due to fire within the area can be accomplished by the existing ventilation system for the fuel storage vault.

Radioactive Release to Environment Evaluation

This area is located in non-radiological area. There are no piping systems in the area that could contain fluids with radiological content. As such, a fire in this area is not deemed credible of causing a radioactive release to the environment.

9A.3.139 FA7-404 Power Source Fuel Storage Vault

Figure 9A-27 shows the location of this fire area adjacent to the south portion of the West PS/B. This fire area consists of the single fire zone, FA7-404-01, C-Class 1E GTG Fuel Storage Vault and a dedicated access tunnel that connects the vault to the PS/B. The access tunnel also serves as a pipe and cable chase from the PS/B to the vault. This vault accommodates GTG fuel storage tank with a capacity of 119,000 gallons. Also, in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-404-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression, and vapor and liquid detection system is installed as primary automatic fire detection.~~and a manual fire alarm pull station is installed as primary manual fire detection.~~ Secondary suppression is provided by a manual hose station and a portable fire extinquisher. Secondary detection is provided by a manual fire alarm pull station. Vapor and liquid detection systems are provided in accordance with NFPA 30. They alarm locally and to the MCR. MIC-03-09-00001 MIC-03-09-00001

Smoke Control Features

Smoke removal as required due to fire within the area can be accomplished by the existing ventilation system for the power source fuel storage vault.

Fire Protection Adequacy Evaluation

The fire area boundaries are constructed with concrete walls in excess of 8 inches thick and 3-hour rated fire doors. 3-hour fire-ratedpenetration seals are provided for all penetrations into the vault. The ventilation supply and exhaust openings contain 3-hour fire rated dampers.

Fire suppression is provided by a dry-pipe sprinkler system in accordance with NFPA 13 and regulatory guidance. The fire area has substantial concrete reinforced walls that are designed to seismic category I criteria. They provide more than the required minimum 3-hour fire resistance rating. Additional fire suppression capability is provided by fire hose streams and portable fire extinguishers. In addition, the area is provided with a manual fire alarm pull station as backup. The combination of structural confinement with fire rated barriers, automatic fire suppression system, the manual fire hose station, automatic fire

9A.3.140 FA7-405 Power Source Fuel Storage Vault

Figure 9A-27 shows the location of this fire area adjacent to the south portion of the West PS/B. This fire area consists of the single fire zone, FA7-405-01, D-Class 1E GTG Fuel Storage Vault and a dedicated access tunnel that connects the vault to the PS/B. The access tunnel also serves as a pipe and cable chase from the PS/B to the vault. This vault accommodates the GTG fuel storage tank with a capacity of 119,000 gallons. Also, in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-405-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression and vapor and liquid detection system is installed as primary automatic fire detection.~~and a manual fire alarm pull station is installed as primary manual fire detection.~~ Secondary suppression is provided by a manual hose station and a portable fire extinguisher. Secondary detection is provided by a manual fire alarm pull station. Vapor and liquid detection systems are provided in accordance with NFPA 30. They alarm locally and to the MCR. MIC-03-09-00001 MIC-03-09-00001

Smoke Control Features

Smoke removal as required due to fire within the area can be accomplished by the existing ventilation system for the power source fuel storage vault.

Fire Protection Adequacy Evaluation

The fire area boundaries are constructed with concrete walls in excess of 8 inches thick and 3-hour rated fire doors 3-hour fire-rated petration seals are provided for all penetrations into the vault. The ventilation supply and exhaust openings contain 3-hour fire rated dampers

Fire suppression is provided by a dry-pipe sprinkler system in accordance with NFPA 13 and regulatory guidance. The fire area has substantial concrete reinforced walls that are designed to seismic category I criteria. They provide more than the required minimum 3-hour fire resistance rating. Additional fire suppression capability is provided by fire hose streams and portable fire extinguishers. In addition, the area is provided with a manual fire alarm pull station as backup. The combination of structural confinement with fire rated barriers, automatic fire suppression system, the manual fire hose station, automatic fire detection system and the manual fire alarm pull station as a backup provides a defense-in-depth approach toward assuring the fire protection adequacy of this fire area and preventing the spread of a fire outside this fire area.

The fire protection system for this vault/tunnel is designed in accordance with NFPA 13. The manual hose station is also provided and designed in accordance with NFPA 14. On this basis, there is adequate fire protection provided for this compartment (fire area).

in this vault are the fuel oil transfer pumps and associated equipment. The tunnel contains the fuel oil pipe, sprinkler piping and power, control and instrumentation cables associated with all the equipment in the vault. The access tunnel is located perpendicular to and above the ESW Piping Tunnel located between the PS/B and the vault. Entrance to the tunnel is through a 3-hour fire rated door located at the wall of PS/B.

Fire Detection and Suppression Features

FA7-406-01 is provided with a dry-pipe automatic sprinkler system for primary fire suppression, and vapor and liquid detection system is installed as primary automatic fire detection.~~and a manual fire alarm pull station is installed as primary manual detection.~~ Secondary suppression is provided by a manual hose station and a portable fire extinguisher. Secondary detection is provided by a manual fire alarm pull station. Vapor and liquid detection systems are provided in accordance with NFPA 30. They alarm locally and to the MCR. MIC-03-09-00001 MIC-03-09-00001

Smoke Control Features

Smoke removal as required due to fire within the area can be accomplished by the existing ventilation system for the fuel storage vault.

Fire Protection Adequacy Evaluation

The fire area boundaries are constructed with concrete walls in excess of 8 inches thick and 3-hour rated fire doors. 3-hour fire-rated penetration seals are provided for all penetrations into the vault. The ventilation supply and exhaust openings contain 3-hour fire rated dampers.

Fire suppression is provided by a dry-pipe sprinkler system in accordance with NFPA 13 and regulatory guidance. The fire area has substantial concrete reinforced walls that are designed to seismic category I criteria. They provide more than the required minimum 3-hour fire resistance rating. Additional fire suppression capability is provided by fire hose streams and portable fire extinguishers. In addition the area is provided with a manual alarm pull station as backup. The combination of structural confinement with fire rated barriers, automatic fire suppression system, the manual fire hose station and the manual fire alarm pull station as a backup provides a defense-in-depth approach toward assuring the fire protection adequacy of this fire area and preventing the spread of a fire outside this fire area.

The fire suppression system for this vault/tunnel is designed in accordance with NFPA 13. The manual hose station is also designed in accordance with NFPA 14. On this basis, there is adequate fire protection provided for this compartment (fire area).

Fire Protection System Integrity

The dry-pipe sprinkler system within the room is designed to NFPA 13 and is seismically supported to ensure that system maintains its pressure boundary integrity and not fall on the equipment during a safe shutdown earthquake (SSE). The manual fire hose station can only discharge water by deliberate manual action. The dry-pipe sprinkler system is

Table 9A-2 Fire Hazard Analysis Summary (Sheet 192 of 292)

Fire Zone:	**FA2-512-01**
Building:	**Reactor**
Floor(s):	**4F, Roof**
Fig:	**9A-8, 9A-9**
Sect:	**3.63**
Area Designation:	**B-Emergency Feedwater Pit**
Zone Designation:	**B-Emergency Feedwater Pit**
Associated Safety Division(s)	**N**
Applicable Regulatory and Code Ref(s):	**IBC, RG 1.189; NFPA 10, 14, 72 and 804**

Adjacent Fire Zones: (Primary Inter face Listed See Table 9A-3 For Complete Listing)	Wall	Floor	Ceiling
	FA2-415-01 **FA2-508-01** **FA2-508-02** **FA2-509-01**	**FA2-404-01** **See Table 9A-3**	**Roof**

Fire Barrier Description:
Walls of reinforced concrete or other material providing a minimum 3-hour fire resistance rating form the boundaries of this room. The door to the room is 3-hour fire rated and all openings and penetrations into the room are rated to provide 3-hour fire resistance.

Potential Combustibles	
Item	Heat Release (Btu)
Transient Only	**9.3E+04**

Fire Detection – Primary	Fire Detection - Backup
Automatic smoke	**Manual Fire Alarm Pull Station**

Fire Suppression – Primary	Fire Suppression - Backup
Fire Hose Station	**Portable Fire Extinguisher**

Fire Zone Combustible Summary	Btu/ft^2
Anticipated Combustible Loading:	**nil**
Maximum Anticipated Combustible Loading:	**7.2E+01**

Floor Area (ft^2)
1,300

Fire Impact to Zone	
Suppression System Operates	Suppression System Fails to Op.
~~**A quickly detected and suppressed fire in this room will minimize fire damage to the safety-related equipment consistent with GDC 3.**~~**Manual fire hose stations and portable fire extinguishers are available in the vicinity.**	**There is no safe-shutdown circuit in this zone to be damaged.**

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Table 9A-2 Fire Hazard Analysis Summary (Sheet 283 of 292)

Fire Zone:	**FA7-101-01**
Building:	**ESW Pipe Tunnel**
Floor(s):	**B1F**
Fig:	**9A-27**
Sect:	**3.97**
Area Designation:	**ESW Piping Tunnel**
Zone Designation:	**ESW Piping Tunnel A**
Associated Safety Division(s)	**A**
Applicable Regulatory and Code Ref(s):	**IBC, RG 1.189; NFPA 10, 72 and 804**

Adjacent Fire Zones: (Primary Inter face Listed See Table 9A-3 For Complete Listing)

Wall	Floor	Ceiling
FA2-102-01	**FA7-103-01**	**FA7-102-01**
FA2-104-01	**FA7-104-01**	**FA7-103-01**
FA3-101-01		**FA7-104-01**
FA7-102-01		

Fire Barrier Description:
The ESW piping tunnels are constructed with reinforced concrete walls, floor and ceiling which provide in excess of 3-hour fire resistance capability as defined in ASTM E-119. All openings and penetrations are protected for 3-hour fire resistance.

Potential Combustibles	
Item	Heat Release (Btu)
Transients Only	

Fire Detection – Primary	Fire Detection - Backup
There is no automatic detection.	**Manual Fire Alarm Pull Station**

Fire Suppression – Primary	Fire Suppression - Backup
Portable Fire Extinguisher	**There is no backup suppression system.**

Fire Zone Combustible Summary	
	Btu/ft^2
Anticipated Combustible Loading:	**nil**
Maximum Anticipated Combustible Loading:	**nil**

Floor Area (ft^2)
14,300

Fire Impact to Zone	
Suppression System Operates	Suppression System Fails to Op.
~~**A quickly identified and suppressed fire will minimize damage and after event cleanup.**~~**Portable fire extinguishers are available in the vicinity.**	**A fire has the potential to damage safe-shutdown functions associated with safety train A. Train B, C and D remain free from the damage.**

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Table 9A-2 Fire Hazard Analysis Summary (Sheet 284 of 292)

Fire Zone:	**FA7-102-01**		
Building:	**ESW Pipe Tunnel**	Area Designation:	**ESW Piping Tunnel**
Floor(s):	**B1F**	Zone Designation:	**ESW Piping Tunnel B**
Fig:	**9A-27**		
Sect:	**3.98**	Associated Safety Division(s)	**B**

Applicable Regulatory and Code Ref(s):
IBC, RG 1.189; NFPA 10, 72 and 804

Adjacent Fire Zones: (Primary Inter face Listed See Table 9A-3 For Complete Listing)	Wall	Floor	Ceiling
	FA2-105-01	**FA7-101-01**	**FA7-103-01**
	FA3-102-01		**FA7-104-01**
	FA7-101-01	**See Table 9A-3**	
	FA7-103-01		

Fire Barrier Description:
The ESW piping tunnels are constructed with reinforced concrete walls, floor and ceiling which provide in excess of 3-hour fire resistance capability as defined in ASTM E-119. All openings and penetrations are protected for 3-hour fire resistance.

Potential Combustibles	
Item	Heat Release (Btu)
Transients Only	

Fire Detection – Primary	Fire Detection - Backup
There is no automatic detection.	**Manual Fire Alarm Pull Station**
Fire Suppression – Primary	Fire Suppression - Backup
Portable Fire Extinguisher	**There is no backup suppression system.**

Fire Zone Combustible Summary	
	Btu/ft^2
Anticipated Combustible Loading:	**nil**
Maximum Anticipated Combustible Loading:	**nil**

Floor Area (ft^2)
14,300

Fire Impact to Zone	
Suppression System Operates	Suppression System Fails to Op.
~~**A quickly identified and suppressed fire will minimize damage and after event cleanup.**~~**Portable fire extinguishers are available in the vicinity.**	**A fire in this fire zone has the potential to damage safe-shutdown functions associated with safety train B. Train A, C and D remain free from the damage.**

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Table 9A-2 Fire Hazard Analysis Summary (Sheet 285 of 292)

Fire Zone:	**FA7-103-01**
Building:	**ESW Pipe Tunnel**
Floor(s):	**B1F**
Fig:	**9A-27**
Sect:	**3.99**
Area Designation:	**ESW Piping Tunnel**
Zone Designation:	**ESW Piping Tunnel C**
Associated Safety Division(s)	**C**
Applicable Regulatory and Code Ref(s):	**IBC, RG 1.189; NFPA 10, 72 and 804**

Adjacent Fire Zones: (Primary Inter face Listed See Table 9A-3 For Complete Listing)

Wall	Floor	Ceiling
FA2-106-01	**FA7-101-01**	**FA7-104-01**
FA3-108-01	**FA7-102-01**	**FA7-401-01**
FA7-101-01	**FA7-104-01**	**FA7-402-01**
FA7-102-01	**See Table 9A-3**	**FA7-403-01**

Fire Barrier Description:
The ESW piping tunnels are constructed with reinforced concrete walls, floor and ceiling which provide in excess of 3-hour fire resistance capability as defined in ASTM E-119. All openings and penetrations are protected for 3-hour fire resistance.

Potential Combustibles	
Item	Heat Release (Btu)
Transients Only	

Fire Detection – Primary	Fire Detection - Backup
There is no automatic detection.	**Manual Fire Alarm Pull Station**

Fire Suppression – Primary	Fire Suppression - Backup
Portable Fire Extinguisher	**There is no backup suppression system.**

Fire Impact to Zone	
Suppression System Operates	Suppression System Fails to Op.
~~A quickly identified and suppressed fire will minimize damage and after event cleanup.~~Portable fire extinguishers are available in the vicinity.	**A fire in this fire zone has the potential to damage safe-shutdown functions associated with safety train C. Train A, B and D remain free from the damage.**

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Fire Zone Combustible Summary	
	Btu/ft^2
Anticipated Combustible Loading:	**nil**
Maximum Anticipated Combustible Loading:	**nil**

Floor Area (ft^2)
14,300

Table 9A-2 Fire Hazard Analysis Summary (Sheet 286 of 292)

Fire Zone:	**FA7-104-01**
Building:	**ESW Pipe Tunnel**
Floor(s):	**B1F**
Fig:	**9A-26**
Sect:	**3.100**
Area Designation:	**ESW Piping Tunnel**
Zone Designation:	**ESW Piping Tunnel D**
Associated Safety Division(s)	**D**
Applicable Regulatory and Code Ref(s):	**IBC, RG 1.189; NFPA 10, 72 and 804**

Adjacent Fire Zones:
(Primary Inter face
Listed See Table 9A-3
For Complete Listing)

Wall	Floor	Ceiling
FA2-107-01	**FA7-101-01**	**FA7-103-01**
FA3-110-01	**FA7-102-01**	**FA7-401-01**
FA7-101-01	**FA7-103-01**	**FA7-402-01**
FA7-102-01	**See Table 9A-3**	**FA7-403-01**

Fire Barrier Description:
The ESW piping tunnels are constructed with reinforced concrete walls, floor and ceiling which provide in excess of 3-hour fire resistance capability as defined in ASTM E-119. All openings and penetrations are protected for 3-hour fire resistance.

Potential Combustibles	
Item	Heat Release (Btu)
Transients Only	

Fire Detection – Primary	Fire Detection - Backup
There is no automatic detection.	**Manual Fire Alarm Pull Station**

Fire Suppression – Primary	Fire Suppression - Backup
Portable Fire Extinguisher	**There is no backup suppression system.**

Fire Zone Combustible Summary	Btu/ft^2
Anticipated Combustible Loading:	**nil**
Maximum Anticipated Combustible Loading:	**nil**

Floor Area (ft^2)
14,300

Fire Impact to Zone	
Suppression System Operates	Suppression System Fails to Op.
~~**A quickly identified and suppressed fire will minimize damage and after event cleanup.**~~**Portable fire extinguishers are available in the vicinity.**	**A fire in this fire zone has the potential to damage safe-shutdown functions associated with safety train D. Train A, B and C remain free from the damage.**

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Tier 2

Chapter 10

Chapter 10 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
RCOL2_12.03-12.04-11 S02	10.4.8.2.1 10.4.11.2.1	10.4-66 10.4-124	MHI Letter No. UAP-HF-11091 Date 04/6/2011	Added description about SGBD piping and Auxiliary Boiler blow down,	-
DCD_10.03.06-12	10.3.6.3 10.3.7	10.3-18 through 10.3-21	Response to RAI No. 500 MHI Letter No. UAP-HF-11096 Date 04/04/2011	Revised Subsection 10.3.6.3 for RAI Response.	-
DCD_10.02-3	10.2.2.3 (new Subsection) 10.2.2.3.1.3 10.2.2.3.1.5 10.2.2.3.2 10.2.2.3.2.1 10.2.2.3.2.2 10.2.2.3.2.3 10.2.2.3.2.4 10.2.2.3.2.5 10.2.3.2 10.2-5(New figure) 10.2-3 (New figure)	10.2-6 10.2-7 10.2-8 10.2-10 10.2-11 10.2-12 10.2-13 10.2-15 10.2-16 10.2-26 10.2-27	Response to RAI No. 598 MHI Letter No. UAP-HF-11170 Date 06/07/2011	Added description about the composition of the turbine control system In Subsection 10.2.2.3. Added description about the OPC operation in the last paragraph of Subsection 10.2.2.3.1.3. Added "(denoted as 20-OPC1 and 20-OPC2 in Figure10.2-3)" in the 1st paragraph of Subsection 10.2.2.3.1.5. Revised description about the turbine	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				protection system of Section 10.2.2.3.2, and incorporated description about the emergency trip system of Subsection 10.2.2.3.2.1 in Subsection 10.2.2.3.2. Replaced the section number into 10.2.2.3.2.1 from 10.2.2.3.2.2, and revised description about the trip block based on RAI Response. Replaced the section number into 10.2.2.3.2.2 from 10.2.2.3.2.3, and revised description about the overspeed trip functions and mechanisms based on RAI Response. Replaced the section number of the description about the test blocks into 10.2.2.3.2.3 from	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				10.2.2.3.2.4 and replaced “setpoint” with “set point”. Replaced the section number of the description about the thrust bearing trip device into 10.2.2.3.2.4 from 10.2.2.3.2.5. Replaced the section number of the description about the remote trip into 10.2.2.3.2.5 from 10.2.2.3.2.6, and revised the description based on RAI Response. Replaced “a fracture toughness” in the 2nd paragraph of subsection 10.2.3.2 with “fracture toughness”. Added Table 10.2-5, Figure 10.2-2 and Figure 10.2-3.	
DCD_10.02-4	Acronyms and Abbreviation 10.1.2 10.2.1.1 10.2.1.2	10-xi 10-xii 10-xiii 10.1-2 10.1-3	Response to RAI No. 598 MHI Letter No. UAP-HF-11170 Date	Added “CCF”, “DAS”, “EOST”, “MOST”, “SLS” and “TPS” to the acronyms and	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	10.2.2.2 10.2.2.2.1 10.2.2.2.2 10.2.2.2.4 10.2.2.2.8(New Subsection) 10.2.2.3(New Subsection) 10.2.2.3.1 10.2.2.3.2 10.2.2.3.1.1 10.2.2.3.1.2 10.2.2.3.1.3 10.2.2.3.1.5 10.2.2.3.1.6 10.2.2.3.2 10.2.2.3.2.1 10.2.2.3.2.2 10.2.2.3.2.6 10.2.2.3.3 10.2.2.3.5 10.2.3.5 10.2.5 Table 10.2-2 New Table 10.2-5 10.2-2(New figure) 10.2-3 (New figure)	10.2-1 10.2-2 10.2-3 10.2-4 10.2-6 10.2-7 10.2-8 10.2-9 10.2-10 10.2-11 10.2-13 10.2-14 10.2-15 10.2-21 10.2-22 10.2-24 10.2-26 10.2-27	06/07/2011	abbreviation. Revised the description of section 10.1.2 about “Turbine Overspeed Protection” and “Radioactivity Protection”. Revised the description in the 2nd paragraph of Subsection 10.2.1.1. Revised the description in the 5th paragraph of subsection 10.2.1.2 about the trip automatically under abnormal conditions. Replaced “emergency trip” in the 6th paragraph of Subsection 10.2.1.2 with “overspeed trip”. Replaced “exceeding design overspeed” in the 7th paragraph of Subsection 10.2.1.2 with “to exceed the	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				design overspeed". Added description about fail-safe design of turbine control and TPS in the 8th paragraph of Subsection 10.2.1.2. Deleted description about non-return valves in Subsection 10.2.1.2. Replaced "digital electro hydraulic (DEH) control system" or "DEH system" in Section 10.2 with "turbine control system". Replaced "the emergency trip system" in subsection 10.2.2.2.1 and 10.2.2.2.4 with "TPS". Added new subsection 10.2.2.2.8. Added description about the composition of the	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				turbine control system In Subsection 10.2.2.3. Revised the description in the 3rd paragraph of Subsection 10.2.2.3.1.1. Revised in Subsection 10.2.2.3.1.3 and 10.2.2.3.1.5, in order to clarify more. Revised description about the turbine protection system of Section 10.2.2.3.2, and incorporated description about the emergency trip system of Subsection 10.2.2.3.2.1 in Subsection 10.2.2.3.2. Deleted “when closed” in the 1st paragraph of 10.2.2.3.2.1, and replaced “emergency trip	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				system" with "TPS". Replaced "mechanical overspeed emergency trip" or "mechanical overspeed trip" in Section 10.2 with "MOST", and replaced "electrical emergency trip" or "electrical overspeed trip" in Section 10.2 with "EOST". Replaced the section number into 10.2.2.3.2.1 from 10.2.2.3.2.2, and revised description about the trip block based on RAI Response. Replaced the section number into 10.2.2.3.2.2 from 10.2.2.3.2.3, and revised description about the overspeed trip functions and mechanisms based on RAI Response. Replaced the section number of	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				the description about the test blocks into 10.2.2.3.2.3 from 10.2.2.3.2.4. Replaced the section number of the description about the thrust bearing trip device into 10.2.2.3.2.4 from 10.2.2.3.2.5. Replaced the section number of the description about the remote trip into 10.2.2.3.2.5 from 10.2.2.3.2.6. Replaced the section number of the description about the other protective device into 10.2.2.3.2.6 from 10.2.2.3.2.7, and replaced "nonreturn valves" with "non-return valves". Added the description about TSI in Subsection 10.2.2.3.3. Revised the	

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				description about the inspection and test requirements for overspeed trip device in Subsection 10.2.2.3.5. Revised the description about the inspection and test of extraction non-return valves in subsection 10.2.3.5. Replaced “turbine maintenance and inspection procedure” in Subsection 10.2.5 with “turbine maintenance, inspection and test procedure”. Revised Table 10.2-2 to reason as discussed in RAI Response. Added Table 10.2-5, Figure 10.2-2 and Figure 10.2-3.	
DCD_10.04.06-17	10.3.7	10.3-21	Amended Response to RAI No. 807 MHI Letter No.	Added new COL item as COL 10.3(4) in	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			UAP-HF-11328 Date 09/29/2011	Subsection 10.3.7.	
DCD_10.04.08-9	10.4.8.1.1 Fig 10.4.8-1	10.4-65 10.4-78 10.4-79	Response to RAI No. 862 MHI Letter No. UAP-HF-11430 Date 12/12/2011	10.4.8.1.1 Corrected description about failure of SGBDS appropriately. Figure 10.4.8-1 Valve tag No. is added for AOV-502A/B/C/D-N to be specified.	-
DCD_06.01.01-21	Table 10.4.9-7	10.4-107	Response to RAI No. 612 MHI Letter No. UAP-HF-10233 Date 08/25/2010	Added information regarding stainless steel weld filler materials.	-

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Tier 2

Chapter 11

Chapter 11 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_11.03-19	Table 11.3-3 (Sheet 1 of 2)	11.3-22	Response to RAI No. 712 MHI Letter No. UAP-HF-11140 Date 5/17/2011	Revised Table 11.3-3 reflected on DCD RAI No. 712 response.	-
DCD_11.03-18	11.5.1.2 11.5.6	11.5-3 11.5-19	Response to RAI No. 629 MHI Letter No. UAP-HF-11164 Date 5/31/2011	Added the description about IE bulletin 80-10 as reference 11.5-36.	-
DCD_11.04-19	11.2.5	11.2-18	Response to Amended RAI No. 534 MHI Letter No. UAP-HF-11320 Date 09/21/2011	Editorial correction Replace Ref.11.2-24 with ref.11.2-25 on COL 11.2(8).	-

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Tier 2

Chapter 12

Chapter 12 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_12.03-12.04-34	Table 12.3-7	12.3-51	Response to RAI No. 524 MHI Letter No. UAP-HF-10274 Date 10/12/2010	Revised Table 12.3-7 to reason as discussed in the response to RAI No. 524.	-
RCOL2_12.03-12.04-11 S02	Table 12.3-8 (Sheet 15 of 61)	12.3-66	MHI Letter No. UAP-HF-11218 Date 07/15/2011	Added description about CST overflow.	-
RCOL2_12.03-12.04-11 S02	Table 12.3-8 (Sheet 60 of 61)	12.3-111	MHI Letter No. UAP-HF-11218 Date 07/15/2011	Added description about Auxiliary Boiler blow down.	-
DCD_09.02.05-8	Table 12.3-8 (sheets 7, 8 10, 11)	12.3-58 12.3-59 12.3-61 12.3-62	Response to RAI No. 286 MHI Letter No. UAP-HF-11232 Date 07/25/2011	Revised the Table 12.3-8 which shows RG 4.21 design objectives and system features of the ESWS to identify that any leak form the CCW heat exchanger which is interface between CCWS and ESWS does not allow mixing of the potentially radioactive CCW and the nonradioactive ESW because of the CCW heat exchanger structure.	-
DCD_09.02.02-	Table 12.3-8	12.3-64	Response to RAI No. 576	Added description about in-leakage	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
69	(sheets 13, 14)	12.3-65	MHI Letter No. UAP-HF-11238 Date 07/29/2011	through a RCP thermal barrier in table 12.3-8 (sheet 13). Added description about CCWS makeup source in table 12.3-8 (sheet 14).	
RCOL2_12.03-12.04-11 S03	Table 12.3-8 (Sheet 16 of 62)	12.3-67	MHI Letter No. UAP-HF-11253 Date 08/3/2011	Revised description about CST overflow.	-
DCD_09.02.06-3	Table 12.3-8 (Sheet 16)	12.3-66	Response to RAI No. 863 MHI Letter No. UAP-HF-11432 Date 12/14/2011	Added the second paragraph about impact on safety-related SSCs.	-

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Tier 2

Chapter 13

Chapter 13 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.05.02-11	13.3	13.3-1	RAI No. 859 MHI Letter No. UAP-HF-11415 Date 11/30/2011	Revised the description in the sixth paragraph of Subsection 13.3.	-

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Tier 2

Chapter 14

Chapter 14 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_14.03.07-55	14.2.12.1.70	14.2-102	Response to RAI No. 675 MHI Letter No. UAP-HF-11021 Date 01/31/2011	Replaced “a 1/4” with “less than or equal to -0.25”	-
DCD_14.02-123	14.2.12.1.54	14.2-87 14.2-88	Response to RAI No. 678 MHI Letter No. UAP-HF-11054 Date 03/01/2011	Added “including the emergency letdown line.” Added “and the emergency letdown line” Added “and the emergency letdown line”	-
DCD_03.09.04-11	14.2.12.1.10 14.2.12.1.11	14.2-41 14.2-41 14.2-42	Response to RAI No. 679 MHI Letter No. UAP-HF-11120 Date 04/25/2011	Revised Subsection 14. 2.12. 1.10 and 14. 2.12.1.11 for RAI response.	-
DCD_14.03.03-24	Table 14.3-2 (Sheet 3 of 4)	14.3-53	Response to RAI No. 743 MHI Letter No. UAP-HF-11146 Date 05/26/2011	Replaced “Category” with “Category I”.	-
DCD_09.02.02-80 This change is superseded by the amend RAI Response.	14.2.12.1.87	14.2-120 14.2-121	Response to RAI No. 697 MHI Letter No. UAP-HF-11133 Date 5/12/2011	Added description about the Initial Plant Test Program for alternative water sources.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.02.02-50	14.2.12.1.87	14.2-123 14.2-124	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Subsection 14.2.12.1.87 to add verification that there are not unacceptable water hammer or pressure waves detected when pumps are started or stopped.	-
DCD_09.02.02-55	14.2.12.1.87	4.2-122 14.2-123	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added that prerequisites in subsection 14.2.12.1.87. Added that test method for water hammer in subsection 14.2.12.1.87. Added that acceptance criteria for water hammer in subsection 14.2.12.1.87.	-
DCD_09.02.02-68 This change is superseded by the amend RAI Response.	14.2.12.1.34	14.2-66	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added that prerequisites in subsection 14.2.12.1.87. Added that test method for water hammer in subsection 14.2.12.1.87.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Added that acceptance criteria for water hammer in subsection 14.2.12.1.87.	
DCD_09.02.02-80	14.2.12.1.87	14.2-120 14.2-121	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 7/29/2011	Revised Subsection 14.2.12.1.87 to add the description regarding verification of the lineup: The cooling water supply line from alternative sources non-ECWS and FSS to the charging pumps, The cooling water supply line from CCWS to the containment fan coolers.	-
DCD_14.02-125	14.2.12.2.3.9	14.2-170	Response to RAI No759 MHI Letter No. UAP-HF-11230 Date 7/20/2011	Added. “2. Adequate mixing of boron is demonstrated by sampling reactor coolant at RCS B-Loop and C-Loop hot legs to determine that a similar minimum boron concentration is achieved at both points under natural circulation conditions” in D. Acceptance Criteria	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				of Subsection 14.2.12.2.3.9	
DCD_03.09.04-11	14.2.12.1.10 14.2.12.1.11	14.2-41 14.2-42	Response to RAI No. 679 MHI Letter No. UAP-HF-11245 Date 7/29/2011	Restored the description of prerequisites to a consistency format of subsection 14.2.12.1	--
DCD_09.02.02-68	14.2.12.1.34 14.2.12.1.115	14.2-68 14.2-145	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Added that test method for interlocks in subsection 14.2.12.1.34. Revised the subsection 14.2.12.1.115 to reflect change of the channel number of CCW surge tank level gauge. Revised the subsection 14.2.12.1.115 to reflect addition of the channel of CCW surge tank level gauge.	-
DCD_06.05.01-21	14.2.12.1.66	14.2-99	Response to RAI No. 826 MHI Letter No. UAP-HF-11346 Date 10/06/2011	Revised the sentence of the C.2 from “Simulate high vibration signals and verify alarm annunciation.” to “Simulate low airflow	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				and high vibration signals and verify alarm annunciation.”	
DCD_06.05.01-22	14.2.12.1.90	14.2-123	Response to RAI No. 826 MHI Letter No. UAP-HF-11346 Date 10/06/2011	Revised the sentence of the A.1 from “To demonstrate operation of the fire protection system, (water system and gaseous systems)…” to “To demonstrate operation of the fire protection system, (fire dampers, water system and gaseous systems)…” Revised the sentence of the C.1 from “Demonstrate operation of the fire detection system.” to “Verify operation of the fire detection system and gaseous fire suppression systems.” Revised the sentence of the C.7 from “Verify operation of the gaseous fire protection systems.” to “Verify operation	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				of fire dampers during full flow conditions.”	
DCD_08.03.01-38	Table 14.3-1d (Sheets 3,4)	14.3-44 14.3-45	Response to RAI No. 394 MHI Letter No. UAP-HF-11404 Date 11/22/2011	Revised the description for adopting different manufacturers for the AAC GTG and Class 1E GTG ensures diversity.	-
DCD_3.12-25	New Subsection 14.2.8.2.2 Table 14.2-1 (sheet 4) 14.2.12.1.1 New Subsection 14.2.12.1.119 14.2.14 Table 14A-1 (sheet 17)	14.2-19 14.2-28 14.2-32 14.2-150 14.2-191 14A-1	Response to RAI No. 742 MHI Letter No. UAP-HF-11363 Date 10/26/2011	Added the description for the pressurizer surge line HFT performance test.	-
MIC-03-14-00002	Table 14.3-1a (Sheet 2 of 8)	14.3-32	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Alternatively refer precise subsection 6.2.2.2.6 and 6.2.3 for strainer information.	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is “-“, the change was not made in a T/R.

Table 14.3-1a Design Basis Accident Analysis Key Design Features (Sheet 2 of 8)

Tier 1 Ref.(1)	Key Design Features	Tier 2 Location(2)
Table 2.2-4 ITAAC #3,#5 Table 2.11.1-1 Table 2.11.1-2 ITAAC #3	The containment design pressure is 68 psig. The PCCV is designed for an external pressure of 3.9 psig based on conservative analysis of inadvertent CSS operation. The containment design temperature is 300°F. Free volume of containment is 2,800,000 ft^3.	Table 3.8.1-1 6.2.1.5.3 Table 6.2.1-2 Table 6.5-5 15.4.8.4 15.6.5
2.4.1 Table 2.4.1-2 ITAAC #4.b	Ferritic reactor coolant pressure boundary materials meet 10 CFR 50 Appendix G fracture toughness criteria and requirements for testing.	5.2.3.3 5.3.1
2.4.2.1 Table 2.4.2-5 ITAAC #10.a	The pressurizer safety valves provide overpressure protection in accordance with the ASME Code Section III. This overpressure protection is provided for the followingbounding events • Loss of external electrical load. • Loss of normal feedwater flow. • Reactor coolant pump shaft break. • Uncontrolled rod cluster control assembly bank withdrawal from a subcritical or low-power startup condition. • Spectrum of rod ejection accidents. The sum of the capacities of the pressurizer safety valves exceeds 1.728×10^6 lb/hr (432,000 lb/hr per valve).	5.2.2.1 Table 5.2.2-1
Table 2.4.2-5 ITAAC #10.a	Pressurizer safety valves set pressure; ≥2435 psig and ≤2485 psig	Table 5.2.2-1
Table 2.4.2-5 ITAAC #10.d	The reactor coolant flow rate per loop with 10% steam generator tube plugging is at least 112,000 gallons per minute.	Table 5.1-3
Table 2.4.2-5 ITAAC #10.c	RCPs have a rotating inertia to provide coastdown flow.	5.4.1 15.3.1.1 15.6.5.2
Table 2.4.4-5 ITAAC #7.b	The four independent ECC/CS suction strainers are designed to maintain adequate NPSH and minimize downstream effects to support ECC/CS functions, maintaining the reactor core in a long-term coolable geometry and supporting decay heat removal following a design basis accident.	~~6.2.2.2~~ 6.2.2.2.6 and 6.2.3 Table 6.2.2-2 Table 19.1-119
Table 2.4.4-5 ITAAC #1.a	The RWSP and ECC/CS suction strainers are located at the lower elevation in containment. The coolant and associated debris from a pipe or component rupture (LOCA), and the containment spray drain into the RWSP through transfer pipes.	6.2.2.2.5 Table 19.1-119
Table 2.4.4-5 ITAAC #7.b	Insulation and coatings inside containment are consistent with the design basis evaluations of ECC/CS suction strainer performance.	6.1.2 6.1.3 6.2.2.3 Table 19.1-119

NOTES: (1) Source: Tier 1 section or table. (2) Tier 2 location or table where addressed.

MIC-03-14-00002

Tier 2

Chapter 15

Chapter 15 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_15.4.6-6	15.4.6.2 15.4.6.3.3.1	15.4-51 15.4-54	Response to RAI No. 682 MHI Letter No. UAP-HF-11104 Date 04/15/2011	Added the new sentence in 7th paragraph in Subsection 15.4.6.2. Revised the first paragraph in Subsection 15.4.6.3.3.1.	-
DCD_15.4.6-9	15.4.6.2 15.4.6.3.2 15.4.6.3.3.2 Table 15.4.6-1	15.4-51 15.4-52 15.4-53 15.4-54 15.4-54 15.4-55 15.4-56	Response to RAI No. 708 MHI Letter No. UAP-HF-11104 Date 04/15/2011	Revised the 11th paragraph in subsection 15.4.6.2. Replaced the second paragraph and revised the 6th and 7th bullets in subsection 15.4.6.3.2. Revised the 4th paragraph in subsection 15.4.6.3.3.2. Revised the table 15.4.6-1.	-
DCD_16-298	15.0.0.6 15.2.6.4.1 15.2.6.4.2 15.2.6.4.3 Table 15.2.6-1 Figure	15.0-10 15.2-21 15.2-21 15.2-22 15.2-23 15.2-24 15.2-28	Response to RAI No. 399 MHI Letter No. UAP-HF-11160 Date 05/30/2011	Revise the each section regarding to automatic CVCS isolation. Added the new result for LCO case in subsection 15.2.6,	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	15.2.6-4 15.2.7.4.1 15.2.7.4.2 15.2.7.4.3 Figure 15.2.7-11 15.2.8.1 15.2.8.2 15.2.8.4.1 15.2.8.4.2 15.5.2 15.5.2.2 15.5.2.3 15.5.2.4.2 15.5.2.4.3 15.5.2.6 Table 15.5.2-1 Figure 15.5.2-1 through 15.5.2-5	15.2-38 15.2-39 15.2-39 15.2-52 15.2-54 15.2-54 15.2-56 15.2-57 15.5-1 15.5-2 15.5-3 15.5-3 15.5-4 15.5-5 15.5-6 15.5-7 through 15.5-12		15.2.7 and 15.2.8.	
DCD_15-26	15.0.0.3 Table 15.0-5	15.0-7 15.0-30	Response to RAI No. 769 MHI Letter No. UAP-HF-11224 Date 7/15/2011	Added new sentence in last paragraph in subsection 15.0.0.3 Added new footnote in Table 15.0-5	-
DCD_15.0.0-30	15.0.0.2.4	15.0-5	Response to RAI No. 786	Added the description in the	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	Table 15.0-1 (sheets 1-4)	15.0-23 through 15.0-26	MHI Letter No. UAP-HF-11271 Date 8/25/2011	second paragraph in Subsection 15.0.0.2.4 Added the footnote in table 15.0-1.	
DCD_15.0.0-31	15.0.0.2	15.0-3	Response to RAI No. 786 MHI Letter No. UAP-HF-11271 Date 8/25/2011	Added the new paragraph between the Subsection 15.0.0.2 and 15.0.0.2.1. Added the new reference in subsection 15.0.5.	-
DCD_15.01.01-15.01.04-7	Table 15.1.4-1	15.1-62	Response to RAI No. 787 MHI Letter No. UAP-HF-11272 Date 8/25/2011	Added the new event description in Table 15.1.4-1.	-
DCD_15.01.01-15.01.04-8	15.1.2.2	15.1-13	Response to RAI No. 787 MHI Letter No. UAP-HF-11272 Date 8/25/2011	Deleted the last sentence of second paragraph in subsection 15.1.2.2.	-
DCD_15.01.05-6	15.1.5.3.3 Table 15.1.5-1 Figures 15.1.5-27 through 15.1.5-32	15.1-87 15.1-88 15.1-93 15.1-122	Response to RAI No. 788 MHI Letter No. UAP-HF-11273 Date 8/25/2011	Added the description in subsection 15.1.5.3.3 (3). Added the new table in table 15.1.5-1. Added the new figures as Figure 15.1.5-27 through	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				15.1.5-32.	
DCD_15.04.08-11	Table 15.0-1 (sheet 3) 15.4.8.1 15.4.8.2 15.4.8.2.1 15.4.8.2.3 15.4.8.2.4 15.4.8.3.1 15.4.8.3.2 15.4.8.3.3 15.4.8.4.1 15.4.8.4.2 Table 15.4.8-1 Table 15.4.8-2 Figures 15.4.8-2 through 15.4.8-7	15.0-25 15.4-64 15.4-65 15.4-66 15.4-67 15.4-68 15.4-69 15.4-70 15.4-71 15.4-71 15.4-72 15.4-76 15.4-77 15.4-82 through 15.4-87	Response to RAI No. 785 MHI Letter No. UAP-HF-11276 Date 08/31/2011	Added the code name in Table 15.0-1 Revised the several descriptions to update the HFP rod ejection methodology and results.	-
DCD_15.0.0-24 S01	15.0.0.7	15.0-10	Response to RAI No. 687 MHI Letter No. UAP-HF-11295 Date 09/09/2011	Revised the first paragraph of Subsection 15.0.0.7 following the agreement of tel-meeting with NRC.. Revised the 4th and 5th paragraphs of Subsection 15.0.0.7 following the agreement of tel-	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				meeting with NRC..	
DCD_15-26 S01	15.1.4.2 15.1.4.3.2 15.1.5.2 15.1.5.3.2 Table 15.1.5-1 Table 15.2.8-1	15.1-57 15.1-59 15.1-79 15.1-83 15.1-93 15.2-60	Response to Amended RAI No. 769 MHI Letter No. UAP-HF-11305 Date 09/09/2011	Revised the 14th paragraph and added the new bullet in Subsection 15.1.4.2. Revised the 7th bullet in Subsection 15.1.4.3.2. Revised the 3rd paragraph and added the new bullet in “System assumption” in Subsection 15.1.5.2. Revised the 6th bullet in 2nd paragraph in Subsection 15.1.5.3.2 (1). Revised the Table 15.1.5-1. Revised the table 15.2.8-1	-
DCD_15.06.03-6	15.6.3.4.3 Table 15.6.3-1	15.6-25 15.6-30	Response to RAI No. 808 MHI Letter No. UAP-HF-11323 Date 09/22/2011	Revised the sentence of subsection 15.6.3.4.3 Item 1 c.. Added the new time sequence in Table 15.6.3-1.	
DCD_15.02.01-	Table 15.0-	15.0-23	Response to	Revised the whole	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
15.02.05-9	1(Sheet 1) 15.2.2.2 15.2.2.3.1(New Subsection) 15.2.2.3.2(New Subsection) 15.2.2.3.3(New Subsection) 15.2.2.4.1(New Subsection) 15.2.2.4.2 (New Subsection) 15.2.2.4.3(New Subsection) 15.2.2.6 Table 15.2.2-1, 15.2.2-2, 15.2.2-3(New Tables) Figure 15.2.2-1 through Figure 15.2.2-8 (New Figures)	 15.2-15 15.2-16	RAI No. 789 MHI Letter No. UAP-HF-11331 Date 09/30/2011	description of 15.2.2 because of adding the new analysis. Revised the table 15.0-1.	
DCD_15-33	15.2.1.3.2 15.2.1.3.3 15.2.1.4.1 15.2.1.4.2 15.2.1.4.3 Table 15.2.1-1 Table 15.2.1-2 Table 15.2.1-3(New table)	15.2-4 15.2-5 15.2-5 15.2-5 15.2-7	Response to RAI No. 809 MHI Letter No. UAP-HF-11332 Date 09/30/2011	Revised the 5th and 7th bullets of subsection 15.2.1.3.2 Revised the 3rd paragraph of subsection 15.2.1.3.2 Revised subsection 15.2.1.4.1.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	Figure 15.2.1-1 through Figure 15.2.1-7	15.2-8 through 15.2-14		Added the new paragraph in subsection 15.2.1.4.2. Revised the 1st through 3rd description of subsection 15.2.1.4.3	
DCD_15.01.05-8	15.1.5.3.2 15.1.5.3.3 Table 15.1.5-1 Figures 15.1.5-26 through 15.1.5-33	15.1-85 15.1-87 15.1-93 15.1-122	Response to RAI No. 865 MHI Letter No. UAP-HF-11445 Date 12/12/2011	Added the sixth bullet in subsection 15.1.5.3.2 (2). Added the new paragraph and change the description in subsection 15.1.5.3.3 (3). Replace the result in table 15.1.5-1, figure 15.1.5-26 through 15.1.5-33.	-
MIC-03-07-00009	15.6.5.5.1.2	15.6-86	Response to MHI Letter No. UAP-HF-11374 Date 11/02/2011	Revised Subsection 15.6.5.5.1.2 for NRC staff's request.	1

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- Contamination of the MCR atmosphere by the infiltration of airborne radioactive material from areas and structures adjacent to the control room envelope (CRE),
- Direct radiation from the external radioactive plume released from the facility,
- Direct radiation from radioactive material in the containment,
- Direct radiation from radioactive material in the MCR emergency filtration unit.

The radioactive material releases and radiation levels used in the MCR dose analysis are based on the same source term, transport, and release assumptions used for determining the EAB and the LPZ TEDE values.

Credit for engineered safety features that mitigate airborne radioactive material within the MCR are assumed according to the guidance given in the Reference 15.6-24. Such features included MCR isolation or pressurization, or intake or recirculation filtration.

When radioactivity enters the MCR, the MCR heating, ventilation, and air conditioning (HVAC) system switches over to the pressurization mode. ~~The MCR HVAC system which works during normal operation is not a safety-class system but provides defense in depth.~~ MIC-03-07-00009

The MCR HVAC system provides passive pressurization of the MCR from a filtered air intake to prevent in-leakage of contaminated air to the MCR during the accident. The MCR HVAC system automatically transfers to emergency operation mode (pressurization mode) on a ECCS actuation or a high radiation signal. The total amount of unfiltered inleakage into the control room is 120 cfm. This total value includes the inleakage through the control room envelope and unexpected inleakage through the control room envelope such as through ingress to and egress from doors without a vestibule.

Assumed filter efficiency of MCR emergency filtration units is based on RG 1.52 (Ref. 15.6-22) and Generic Letter 99-02 (Ref.15.6-23).

Reference 15.6-4 provides guidance on calculating the consequences to the MCR receptor. The dose receptor is a hypothetical maximum exposed individual who is present in the control room for 100% of the time during the first 24 hours after the event, 60% of the time between 1 and 4 days, and 40% of the time from 4 days to 30 days. For the duration of the event, the breathing rate of this individual is assumed to be 3.5 x 10^{-4} m^3/s.

MCR doses are calculated using dose conversion factors identified in Regulatory Position 4.1 of Reference 15.6-4. The deep dose equivalent (DDE) from photons are corrected for the difference between finite cloud geometry in the control room and the semi-infinite cloud assumption used in calculating the dose conversion factors. The following expression is used to correct the semi-infinite cloud dose, DDE_∞, to a finite cloud dose, DDE_{finite}, where the control room is modeled as a hemisphere that has a volume, V, in cubic feet, equivalent to that of the control room.

$$DDE_{finite} = \frac{DDE_\infty V^{0.338}}{1173}$$

Tier 2

Chapter 16

Chapter 16 Specification Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_16-302	5.5.18 5.5.19	5.5-17 5.5-18	Response to RAI No. 674 MHI Letter No. UAP-HF-11007 Date 01/18/2011	Replaced “Revision 0” with “Revision v”. Added “and supplemental documentation.” Replaced “within 12 hours from the configuration change” with “in accordance with NEI 06-09” Added “[and supplementary documentation on PRA development.” Added “(Revision z)”. Replaced “Revision 1” with “and Supplemental documentation”.	-
DCD_14.03.07-55	3.7.11	3.7.11-2	Response to RAI No. 675 MHI Letter No. UAP-HF-11021 Date 01/31/2011	Replaced “atmospheric pressure” with “surrounding areas”	-
DCD_05.03.02-9	3.4.12	3.4.12-1	Response to RAI No. 693 MHI Letter No. UAP-HF-11070 Date 03/22/2011	Added “specified in the PTLR” in LCO 3.4.12 a.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_16-303	5.5.14	5.5-14	Response to RAI No. 747 MHI Letter No. UAP-HF-11153 Date 05/27/2011	Revised Item b and c for RAI response.	-
DCD_15.4.6-6	3.4.6 3.4.7 3.4.8	3.4.6-1 through 3.4.6-3 3.4.7-1 3.4.7-3 3.4.8-1 through 3.4.8-3	Response to RAI No. 682 MHI Letter No. UAP-HF-11104 Date 04/15/2011	Added the new sentence	-
DCD_16-298	3.4.9	3.4.9-1 3.4.9-2	Response to RAI No. 399 MHI Letter No. UAP-HF-11160 Date 05/30/2011	Added the new sentence	-
DCD_09.02.02-49	3.7.7	3.7.7-2	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added Surveillance Requirement to verify system leakage.	-
DCD_16-136	5.5.11	5.5-10	Response to Amended RAI No. 161 MHI Letter No. UAP-HF-11349 Date 10/07/2011	Added the face velocity “2400 fpm” as test condition at 5.5.11 c.	-
DCD_06.02.02-64	3.5.4	3.5.4-2	GSI-191 Amended	Revised water volume of SR 3.5.4.2	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			Response to RAI No. 740 MHI Letter No. UAP-HF-11280 Date 8/31/2011	for RAI response.	
MIC-03-16-00005	Spec 5.5.5 Spec 5.6.4	5.5-4 5.6-4	Incorporation of past responses to RAI 133-1827 Question 16-130 and 139 (Resolution for SER Confirmatory Item:CI-SRP-16-CTSB-133-1827/130, CI-SRP-16-CTSB-133-1827/139)	Replaced "the Chapter 3" with "Subsection 3.9.1". Add "LTOP arming,".	1

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5.5 Programs and Manuals

5.5.4 Radioactive Effluent Controls Program (continued)

i. Limitations on the annual and quarterly doses to a member of the public from iodine-131, iodine-133, tritium, and all radionuclides in particulate form with half lives > 8 days in gaseous effluents released from each unit to areas beyond the site boundary, conforming to 10 CFR 50, Appendix I, and

j. Limitations on the annual dose or dose commitment to any member of the public, beyond the site boundary, due to releases of radioactivity and to radiation from uranium fuel cycle sources, conforming to 40 CFR 190.

The provisions of SR 3.0.2 and SR 3.0.3 are applicable to the Radioactive Effluent Controls Program surveillance frequency.

5.5.5 Component Cyclic or Transient Limit

This program provides controls to track ~~the Chapter 3~~Subsection 3.9.1, cyclic and transient occurrences to ensure that components are maintained within the design limits. MIC-03-16-00005

5.5.6 Prestressed Concrete Containment Tendon Surveillance Program

This program provides controls for monitoring any tendon degradation in prestressed concrete containments, including effectiveness of its corrosion protection medium, to ensure containment structural integrity. The program shall include baseline measurements prior to initial operations. The Tendon Surveillance Program, inspection frequencies, and acceptance criteria shall be in accordance with Section XI, Subsection IWL of the ASME Boiler and Pressure Vessel Code and applicable addenda as required by 10 CFR 50.55a, except where an alternative, exemption, or relief has been authorized by the NRC.

The provisions of SR 3.0.3 are applicable to the Tendon Surveillance Program inspection frequencies.

5.5.7 Reactor Coolant Pump Flywheel Inspection Program

This program shall provide for the inspection of each reactor coolant pump flywheel per the recommendations of Regulatory Position C.4.b of Regulatory Guide 1.14, Revision 1, August 1975.

In lieu of Position C.4.b(1) and C.4.b(2), a qualified in-place UT examination over the volume from the inner bore of the flywheel to the circle one-half of the outer radius or a surface examination (MT and/or PT) of exposed surfaces of the removed flywheels may be conducted at 20 year intervals.

5.6 Reporting Requirements

5.6.4 Reactor Coolant System (RCS) PRESSURE AND TEMPERATURE LIMITS REPORT (PTLR)

a. RCS pressure and temperature limits for heat up, cooldown, low temperature operation, criticality, and hydrostatic testing, LTOP arming, as well as heatup and cooldown rates shall be established and documented in the PTLR for the following: MIC-03-16-00005

3.4.3, “RCS Pressure and Temperature (P/T) Limits”
3.4.12, “Low Temperature Overpressure Protection System”

b. The analytical methods used to determine the RCS pressure and temperature limits shall be those previously reviewed and approved by the NRC, specifically those described in the following document:

MUAP-09016, “Pressure and Temperature Limits Report.”

c. The PTLR shall be provided to the NRC upon issuance for each reactor vessel fluence period and for any revision or supplement thereto.

5.6.5 Post Accident Monitoring Report

When a report is required by Condition B of LCO 3.3.3, "Post Accident Monitoring (PAM) Instrumentation," a report shall be submitted within the following 14 days. The report shall outline the preplanned alternate method of monitoring, the cause of the inoperability, and the plans and schedule for restoring the instrumentation channels of the Function to OPERABLE status.

5.6.6 Tendon Surveillance Report

Any abnormal degradation of the containment structure detected during the tests required by the Prestressed Concrete Containment Tendon Surveillance Program shall be reported to the NRC within 30 days. The report shall include a description of the tendon condition, the condition of the concrete (especially at tendon anchorages), the inspection procedures, the tolerances on cracking, and the corrective action taken.

SURVEILLANCE REQUIREMENTS

SURVEILLANCE		FREQUENCY
SR 3.5.4.1	------------------------------NOTE------------------------- Only required to be performed when containment air temperature is < 32°F or >120°F. --- Verify RWSP borated water temperature is ≥ 32°F and ≤ 120°F.	[24 hours OR In accordance with the Surveillance Frequency Control Program]
SR 3.5.4.2	Verify RWSP borated water volume is ≥ ~~583,340~~76,600 ft^3 (573,000 gallons).	[7 days OR In accordance with the Surveillance Frequency Control Program] DCD_06.02.02-64
SR 3.5.4.3	Verify RWSP boron concentration is ≥ 4000 ppm and ≤ 4200 ppm.	[7 days OR In accordance with the Surveillance Frequency Control Program]
SR 3.5.4.4	Verify isotopic concentration of B-10 in the RWSP is ≥ 19.9% (atom percent).	[24 hours OR In accordance with the Surveillance Frequency Control Program]

Chapter 16 Bases Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_15.4.6-6	B 3.4.6 B 3.4.7 B 3.4.8	B3.4.6-1 B 3.4.6-3 B 3.4.6-4 B 3.4.6-5 B 3.4.7-1 through B 3.4.7-5 B 3.4.8-1 through B.3.4.8-4	Response to RAI No. 682 MHI Letter No. UAP-HF-11104 Date 04/15/2011	Revised each items and added the new paragraphs.	-
DCD_16-298	B3.4.9	B3.4.9-1 through B3.4.9-5	Response to RAI No. 399 MHI Letter No. UAP-HF-11160 Date 05/30/2011	Revised each items and added the new sentence	-
DCD_09.02.02-49 This change is superseded by the amend RAI Response.	B3.7.7	B3.7.7-4	Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Added Surveillance Requirement and associated Bases to verify system leakage.	-
DCD_09.02.02-49	B3.7.7	B3.7.7-4 B3.7.7-5 B3.7.7-6	2nd Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11365 Date 10/27/2011	Added Surveillance Requirement and associated Bases to verify system leakage.	-
DCD_09.02.02-	B3.7.7	B3.7.7-1	Response to RAI No. 774	Added summary description on cross-	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
84			MHI Letter No. UAP-HF-11263 Date 08/12/2011	tie use.	
DCD_16-304	Ch 16 – Bases B3.1.4 B3.1.6 B3.2.3 B3.4.1 B3.4.16 B3.5.1 B3.7.15	 B3.1.4-8 B3.1.6-5 B3.2.3-6 B3.4.1-3 B3.4.1-4 B3.4.16-5 B3.5.1-9 B3.7.15-2	Response to RAI No. 816 MHI Letter No. UAP-HF-11315 Date 9/16/2011	Correct errors in the TS Bases related to Surveillance Frequency Control Program.	-
MIC-03-16-00004	B 3.4.12	B3.4.12-4	NRC request (Resolution for SER Confirmatory Item:CI-SRP-16-STSB-146-1804/89)	Replaced "Appendix K (Refs. 5 and 6)" with "Appendix K (Refs. 6 and 7)".	1

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APPLICABLE SAFETY ANALYSES (continued)

c. Disallowing start of an RCP if secondary temperature is more than 50°F above primary temperature in any one loop. LCO 3.4.6, "RCS Loops - MODE 4," and LCO 3.4.7, "RCS Loops - MODE 5, Loops Filled," provide this protection.

The Reference 4 analyses demonstrate that either two RHR suction relief valve or the depressurized RCS and RCS vent can maintain RCS pressure below limits when two safety injection pumps and one charging pump are actuated. Thus, the LCO allows only two safety injection pumps and one charging pump OPERABLE during the LTOP MODES.

Since neither two RHR suction relief valves nor the RCS vent can handle the pressure transient need from accumulator injection, when RCS temperature is low, the LCO also requires the accumulators isolation when accumulator pressure is greater than or equal to the maximum RCS pressure for the existing RCS cold leg temperature allowed in the PTLR.

The isolated accumulators must have their discharge valves closed and the valve power supply breakers fixed in their open positions. The analyses show the effect of accumulator discharge is over a narrower RCS temperature range (195°F and below) than that of the LCO (LTOP arming temperature and below).

Fracture mechanics analyses established the temperature of LTOP Applicability at LTOP arming temperature specified in the PTLR.

The consequences of a small break loss of coolant accident (LOCA) in LTOP MODE 4 conform to 10 CFR 50.46 and 10 CFR 50, Appendix K (Refs. ~~5~~6 and ~~6~~7), requirements by having a maximum of two SI pumps and one charging pump OPERABLE and SI actuation enabled. MIC-03-16-00004

RHR Suction Relief Valve Performance

The RHR suction relief valves do not have variable pressure and temperature lift setpoints. Analyses must show that two RHR suction relief valves lifting at its specified setpoint will pass flow greater than that required for the limiting LTOP transient while maintaining RCS pressure less than the P/T limit curve. Assuming all relief flow requirements during the limiting LTOP event, two RHR suction relief valves will maintain RCS pressure to within the valve rated lift setpoint, plus an accumulation ≤ 10% of the rated lift setpoint.

Tier 2

Chapter 17

Chapter 17 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_09.02.02-80 This change is superseded by the amend RAI Response.	Table 17.4-1 (Sheet 11, 23, 24 of 51)	17.4-17 17.4-29 17.4-30	Response to RAI No. 697 MHI Letter No. UAP-HF-11133 Date 05/12/2011	Revised the Table 17.4-1 to reflect alternative cooling water line isolation valves.	-
DCD_09.02.02-80	Table 17.4-1 (Sheet 11, 23, 24 of 51)	17.4-17 17.4-29 17.4-30	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 07/29/2011	Revised the Table 17.4-1 to reflect alternative cooling water line isolation valves.	-

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Tier 2

Chapter 18

Chapter 18 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_18-100	18.5.2	18.5-2	Response to RAI No. 725 MHI Letter No. UAP-HF-11124 Date 04/27/2011	Revised Subsection 18.5.2 Note 1 for RAI response.	-
DCD_18-103	18.5.1 18.5.5	18.5-1 18.5-5	Response to RAI No. 725 MHI Letter No. UAP-HF-11124 Date 04/27/2011	Added description about the Staffing and Qualifications Implementation Plan Added reference to 18.5-12Added	-
DCD_18-106	18.1.1.1 18.1.2.4 18.1.3.4 18.1.3.6 18.1.4 18.1.7	18.1-2 18.1-8 18.1-9 18.1-10 18.1-14	Response to RAI No. 728 MHI Letter No. UAP-HF-11125 Date 04/28/2011	Revised subsection 18.1.1.1 for RAI response. Replaced "Subsection 5.1.2.2" with "18.1-12 Part 1 Section 3.2" Revised subsection 18.1.3.4 for RAI response. Added reference to18.1-12, Part 1 Section 5. Replaced "Subsection 5.1.4" with "18.1-12 Part 1 Section 6 and Section 7".	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Added reference to 18.1-12.	
DCD_18-107	18.6.1 18.6.2 18.6.3 18.1.7	18.6-1 18.6-2 18.1-14	Response to RAI No. 728 MHI Letter No. UAP-HF-11125 Date 04/28/2011	Deleted description as follow: “design” Added reference to second paragraph of 18.6.1	-
DCD_18-108	18.1.1.2	18.1-3	Response to RAI No. 728 MHI Letter No. UAP-HF-11125 Date 04/28/2011	Deleted description as follow:“design” Added reference to second paragraph of 18.6.1	-
DCD_18-109	18.1.2.2 Figure 18.1-1	18.1-4 18.1-5 18.1-15	Response to RAI No. 728 MHI Letter No. UAP-HF-11125 Date 04/28/2011	Deleted description as follow:“design” Added reference to second paragraph of 18.6.1	-
DCD_18-114	18.1.2.4 18.1.3.3 18.1.3.4 18.1.5	18.1-8 18.1-9 18.1-10	Response to RAI No. 728 MHI Letter No. UAP-HF-11125 Date 04/28/2011	Added reference to first paragraph of Subsection 18.1.2.4 Added description about work process Revised subsection 18.1.3.4 for RAI response Revised Subsection 18.1.5 for RAI response	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_18-110	18.1.1.3	18.1-3	Response to RAI No. 728 MHI Letter No. UAP-HF-11132 Date 05/12/2011	Replaced “emergency response” with “accident management”	-
DCD_18-114	18.1.3.4	18.1-9	Response to RAI No. 728 MHI Letter No. UAP-HF-11132 Date 05/12/2011	Revised Subsection 18.1.3.4 for RAI response	-
DCD_18-120	18.8.1 18.9.2.1 18.9.2.4 18.9.2.5 18.9.5	18.8-1 18.9-2 18.9-4 18.9-5 18.9-6	Response to RAI No. 757 MHI Letter No. UAP-HF-11166 Date 05/31/2011	Added description about objectives and scope. Added description about general training approach. Revised Subsection 18.9.2.4 for RAI response. Added description about effectiveness of training programs. Added reference to 18.9-13.	-
DCD_18-116	18.11.2 18.11.5	18.11-1 18.11-2	Response to RAI No. 755 MHI Letter No. UAP-HF-11165 Date 05/31/2011	Added description about the design implementation plan. Added reference to 18.11-2.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_18-117	18.11.1 18.11.2	18.11-1	Response to RAI No. 755 MHI Letter No. UAP-HF-11165 Date 05/31/2011	Added description about the design implementation plan. Revised Subsection 18.11.2 for RAI response.	-
DCD_18-131	18.4.1	18.4-1	Response to RAI No. 781 MHI Letter No. UAP-HF-11433 Date 12/15/2011	Revised Section 18.4.1 for RAI response	-
DCD_18- 131, 132, 133, 134, 135, 136, 138, 139	18.4.2 18.4.2.1	18.4-2 18.4-3	Response to RAI No. 781 MHI Letter No. UAP-HF-11433 Date 12/15/2011	Revised to refer to the revised MUAP-09019 as the TA Implementation Plan, instead of MUAP-07007	-
DCD_18-142	18.3.3	18.3-4	Response to RAI No. 793 MHI Letter No. UAP-HF-11435 Date 12/16/2011	Revised Section 18.3.3 for RAI response	-
DCD_18-147	18.3.2.1 18.3.3	18.3-2 18.3-5	Response to RAI No. 793 MHI Letter No. UAP-HF-11435 Date 12/16/2011	Revised Section 18.3.2.1 and 18.3.3 for RAI response	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_07.08-9	18.9.2.1	18.9-2	Response to RAI No. 677 MHI Letter No. UAP-HF-11032 Date 02/09/2011	Added description about general training approach.	-
DCD_07.08-9	18.9.2.1	18.9-2	Response to RAI No. 677 MHI Letter No. UAP-HF-11159 Date 05/31/2011	Added description about general training approach.	-
DCD_18-126	18.12.2	18.12-2	Response to RAI No. 777 MHI Letter No. UAP-HF-11275 Date 8/24/2011	Added third and last paragraphs about plant data.	-
DCD_18-128	18.12.3	18.12-2	Response to RAI No. 777 MHI Letter No. UAP-HF-11275 Date 8/24/2011	Added “in a timely manner”	-
DCD_18-140	Figure 18.1-2	18.1-18	Response to RAI No. 792 MHI Letter No. UAP-HF-11278 Date 08/25/2011	Assigned dual role of SRO/STA to the main control room supervisor and clarified the presence of a second SRO/STA for minimum shift staffing.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_18-140	Figure 18.1-3 18.5.2 18.9.2.1	18.1-16 18.5-1 18.9-2	Response to RAI No. 792 MHI Letter No. UAP-HF-11278 Date 08/25/2011	Revised Shift Supervisor title to “Shift Manager”	-
DCD_18-129	18.4.1 18.7.3.2 18.10.1	18.4-2 18.7-8 18.10-1	Response to RAI No. 780 MHI Letter No. UAP-HF-11267 Date 8/19/2011	Revised the fifth bullet in the first paragraph in Section 18.1.1.2. Revised third paragraph in Section 18.1.1.2.	-
DCD_18-187	New Subsection 18.12.5	18.12-2	Response to RAI No. 843 MHI Letter No. UAP-HF-11360 Date 10/21/2011	Added a new reference.	-
DCD_18-188	18.8.5	18.8-5	Response to RAI No. 844 MHI Letter No. UAP-HF-11359 Date 10/21/2011	Added a new reference	-
DCD_18-178	18.7.3.3 18.7.4	18.7-10	Response to RAI No. 797 MHI Letter No. UAP-HF-11366 Date 10/27/2011	Revised the first sentence in Section 18.7.3.3 for RAI response. Added a new reference.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_18-182	18.7.2.5	18.7-7	Response to RAI No. 797 MHI Letter No. UAP-HF-11366 Date 10/27/2011	Revised the phrase in Section 18.7.2.5 for RAI response.	-
DCD_18-185	18.7.3 18.7.3.2	18.7-8 18.7-9	Response to RAI No. 797 MHI Letter No. UAP-HF-11366 Date 10/27/2011	Revised the sentence in Section 18.7.3 for RAI response. Revised the first sentence in Section 18.7.3.2 for RAI response. Revised the second sentence in Section 18.7.3.2 for RAI response.	-

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Tier 2

Chapter 19

Chapter 19 Change List

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_6.2.5-41	19.2.3.3.2	19.2-8	Response to RAI No. 696 MHI Letter No. UAP-HF-11059 Date 03/07/2011	Revised for editorial correction	-
MIC-03-19-00003	Table 19.1-119 (Sheet 14 of 46)	19.1-911	Update the reflection of SPDI MHI Letter No. UAP-HF-11030 Date 02/21/2011	Added “The case where ESW pump motors are air-cooled has a small impact on PRA results because the HVAC system for the ESW pump room is reliable due to operator backup.”	-
DCD_19-495	19.1.6.1	19.1-135	Response to RAI No. 681 MHI Letter No. UAP-HF-11037 Date 02/17/2011	Replaced “These valves are automatically closed by detection of RCS Low level signal and …” with “These valves are automatically closed by detection of RCS Low water level signal which actuates when the RCS water level is 0.47 feet higher than loop center, and …”	-
DCD_19-496	Table 19.1-119 (Sheet 27,	19.1-924 19.1-930	Response to RAI No. 681 MHI Letter	Replaced “MSDV” and “close pressurizer spray vent valve (if	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
	33 of 46)		No. UAP-HF-11037 Date 02/17/2011	open)" with "main steam depressurization valve" and "close the pressurizer spray vent valve (if the valve is opened)", respectively. Inserted item 13 regarding removal of pressurizer safety valve to prevent the damage of SG nozzle dams.	
DCD_19-499	19.2.3.3.7 Table 19.2-10 (New table)	19.2-22 19.2-23 19.2-60	Response to RAI No. 707 MHI Letter No. UAP-HF-11084 Date 03/29/2011	Added detailed technical information in section 19.2.3.3.7. Added new table 19.2-10.	-
DCD_19-500	Table 19.1-119 (Sheet 39 of 46)	19.1-936	Response to RAI No. 714 MHI Letter No. UAP-HF-11099 Date 04/8/2011	Added second ballet in the fourth paragraph about MCR fire.	-
DCD_06.02.05-43	19.2.3.3.2	19.2-8	Response to RAI No. 751 MHI Letter No. UAP-HF-11169 Date 06/03/2011	Replaced "for decay heat removal" in the second from the last paragraph of section 19.2.3.3.2 with "due to failure of the safety injection system and the containment spray system"	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
DCD_19-525	19.3.3	19.3-1	Response to RAI No. 761 MHI Letter No. UAP-HF-11192 Date 06/28/2011	Replaced “Deleted” with “The COL Applicant will identify … if any new vulnerability have been introduced.” (Added COL Item 19.3(5))	-
DCD_03.07.02-35	19.1.5.1.1	19.1-82	Response to RAI No. 542 MHI Letter No. UAP-HF-11195 Date 06/30/2011	Replaced reference to a three dimensional lumped mass stick model for dynamic seismic response analysis with reference to a finite element model for soil structure interaction analysis.	-
DCD_19-508	19.2.5 19.3.3	19.2-33 19.3-1	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Inserted “developed by a COL applicant.” Revised COL Action item 19.3(6).	-
DCD_19-510	19.1.2 19.1.2.3 19.1.2.4	19.1-4 19.1-5 19.1-6	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Deleted the following descriptions “The quality of the PRA is sufficient … risk-informed applications”. (Sec. 19.2) “The PRA has been developed … peer review guide (Reference 19.1-14)”.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				(Sec. 19.1.2.3) “Upgrades of the PRA will … the PRA that have been upgraded.” (Sec. 19.1.2.4)	
DCD_19-511	19.1.4.1.2 Table 19.1-38 (Sheets 5 and 6 of 9) Table 19.1-140 (Sheets 1 and 2 of 3)	19.1-54 19.1-55 19.1-58 19.1-413 19.1-414 19.1-1001 19.1-1002	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Inserted two sensitivity analysis results, i.e., CASE 4-4 and CASE 4-5. Revised description in sensitivity analysis CASE 6-1 Inserted “US-APWR PRA uses the various assumptions … are summarized in Table 19.1-38.” Revised descriptions regarding “Status of pressurizer safety valves”, “Test interval of equipments” (Sheet 5), “Failure probability and failure rates for diesel generators” and “Failure probability of digital I&C software” (Sheet 6) in Table	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				19.1-38 Revised impact on CDF regarding “Digital I&C” (Sheet 2), “Status of pressurize safety valve” and “Test interval of equipments” (Sheet 3) in Table 19.1-140.	
DCD_19-512	Table 19.1-119 (Sheets 1, 5, 10 and 11 of 46)	19.1-898 19.1-902 19.1-907 19.1-908	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Inserted the following design features “SI pumps are operable … within mission time.” (Sheet 1) “CS/RHR pumps are operable … within mission time.” (Sheet 5) The EFWS is automatically initiated … low SG water level signal”.(Sheet 11) Replaced design feature of T/D EFW pump operability with “On the other hand, turbine-driven EFW pumps are operable regardless of room cooling.” (Sheet 11)	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				Added disposition for M/D EFW pump operability. (Sheet 11)	
DCD_19-513	Table 19.1-15 (Sheet 10 of 14)	19.1-241	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Added T-H analyses results for alternate containment cooling (No.2.4).	-
DCD_19-514	Table 19.1-119 (Sheets 25 of 46)	19.1-922	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Added new risk-significant operator actions for equalization between primary and secondary pressure in SGTR.	-
DCD_19-516	Table 19.1-119 (Sheets 1, 5, 11, 16 and 18 of 46) Table 19.1-180(New table)	19.1-898 19.1-902 19.1-908 19.1-913 19.1-915 19.1-1149	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Inserted the following design features “SI pumps are operable … within mission time.” (Sheet 1) “CS/RHR pumps are operable … within mission time.” (Sheet 5) “GTG can operate regardless of … essential chilled water system.” Replaced design feature of T/D EFW pump operability with “On the other hand,	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				turbine-driven EFW pumps are operable regardless of room cooling.” (Sheet 11) Added disposition for M/D EFW pump operability. (Sheet 11) Incorporated Table 19.1-180 that summarizes room temperature analysis for each area.	
DCD_19-518	19.3.3	19.3-1	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Revised COL Action item 19.3(4).	-
DCD_19-519	19.1.5.1.2	19.1-88	Response to RAI No. 750 MHI Letter No. UAP-HF-11201 Date 06/30/2011	Replaced description of GTG failure for SMA with “The probability that all gas-turbine generators … (all failure modes)”.	-
MIC-03-19-00002	Table 19.1-14	19.1-231 [19.1-232]	Correction for track change	Remove track changes of “CSS/RHRS” (Contents are not change)	0
DCD_09.02.0	Table 19.1-	19.1-440	Response to	Replaced “424” and	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
2-80 This change is superseded by the amend RAI Response.	44 (Sheet 7 of 7) Table 19.1-45 (Sheet 41, 42, 43 of 60) Figure 19.1-2 (Sheet 28, 29 of 42)	19.1 -481 19.1-482 19.1-483 19.1-1196 19.1-1197	RAI No. 697 MHI Letter No. UAP-HF-11133 Date 05/12/2011	"425" with "241" and "242" respectively. Replaced "VWS-MOV-424" and "VWS-MOV-425" with "NCS-MOV-241" and "NCS-MOV-242", respectively.	
DCD_09.02.02-80	Table 19.1-45 (Sheet 41, 42, 43 of 60) Figure 19.1-2 (Sheet 28, 29 of 42)	19.1 -481 19.1-482 19.1-483 19.1-1196 19.1-1197	Amended Response to RAI No. 697 MHI Letter No. UAP-HF-11239 Date 07/29/2011	Replaced "424" and "425" with "241" and "242" respectively. Replaced "VWS-MOV-424" and "VWS-MOV-425" with "NCS-MOV-241" and "NCS-MOV-242", respectively.	-
DCD_09.02.02-48	Table 19.1-119 (Sheet 22 of 46) Figure 19.1-2 (sheet 14 and 15 of 42)	19.1-919 19.1-1182 19.1-1183	Amended Response to RAI No. 571 MHI Letter No. UAP-HF-11237 Date 7/29/2011	Revised Table 19.1-119 (Sheet 22 of 46): Delete Item 17 relating to automatic closure of CCW header tie line. Revised Figure 19.1-2 (Sheets 14, 15) to delete automatic closure of header tie line isolation valves.	-
DCD_19.01-5	Table 19.1-119 (Sheet 32 of 46)	19.1-929	Response to RAI No. 621 MHI Letter No. UAP-HF-	Inserted the description regarding SG reflux cooling during mid-loop operation after	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			11229 Date 7/20/2011	refueling.	
DCD_19-493	Table 19.1-141	19.1-1004	Response to RAI No. 669 MHI Letter No. UAP-HF-11229 Date 7/20/2011	Inserted “SG tube drain performed” in POS 4-1.	-
DCD_19-493	Table 19.1-141	19.1-1005	Response to RAI No. 669 MHI Letter No. UAP-HF-11229 Date 7/20/2011	Revised time to core boiling in POSs 4-2 and 4-3.	-
DCD_19-506	Table 19.1-119 (Sheet 36 of 46)	19.1-933	Response to RAI No. 749 MHI Letter No. UAP-HF-11229 Date 7/20/2011	Replaced “Pressurizer” with “At least three pressurizer”	-
DCD_19-493	Table 19.1-119 (Sheet 36 of 46)	19.1-933	Response to RAI No. 669 MHI Letter No. UAP-HF-11229 Date 7/20/2011	Revised procedure to remove SG manways and to install SG nozzle dams.	-
DCD_19-503	Table 19.1-119 (Sheet 40 of 46)	19.1-937	Response to RAI No. 744 MHI Letter No. UAP-HF-11252 Date 8/2/2011, and revised response to RAI No. 744 MHI Letter	Replaced the 6th assumption of “Internal fire assumptions”	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			No. UAP-HF-11302 Date 9/8/2011		
DCD_19-547	19.1.6.1	19.1-139	Response to RAI No. 783 MHI Letter No. UAP-HF-11274 Date 08/24/2011	Replaced "engineering judgment based on the previous PRA studies" with "a system analysis and calculations determining the loss of RCS inventory due to boiling as a function of time and the minimum gravity injection flowrate at atmospheric pressure" Replaced "engineering judgment based on previous PRA studies" with "calculating peak RCS temperatures and pressures during various mid-loop POS scenarios as a function of time with consideration of the time required for successful operator mitigative actions."	-
DCD_19-547	19.1.6.1	19.1-141	Response to RAI No. 783 MHI Letter No. UAP-HF-11274 Date	Replaced "engineering judgment based on the previous PRA studies" with "a system analysis and calculations determining the loss of RCS inventory due to	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			08/24/2011	boiling as a function of time and the minimum gravity injection flowrate at atmospheric pressure” Replaced “engineering judgment based on previous PRA studies” with “calculating peak RCS temperatures and pressures during various mid-loop POS scenarios as a function of time with consideration of the time required for successful operator mitigative actions.”	
DCD_19-532	19A.1 19A.6	19A-1 19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268 Date 08/22/2011	Insert “Theses guidelines were fully followed with no exception taken.” Reference 19A-2 is corrected.	-
DCD_19-533	19A.3	19A-2	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.3 is revised to reflect that the methods described in NEI 07-13 were used to assess the physical, fire and vibration effects of the aircraft impact on SSCs in the reactor building and the power source buildings in order to determine the continued core	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				cooling capability of the existing and enhanced design.	
DCD_19-534	19A.4.1 19A.4.2	19A-2 19A-3	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.4.1 is revised to add a paragraph which address the potential for leakage through the SFP liner below the required minimum water level of the pool due to aircraft impact scenarios per NEI 07-13. The sixth item in Section 19A.4.2 is deleted.	-
DCD_19-535	19A.4.3	19A-3	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 9.5.1.2.1, page 9A-610 and section 19A.4.3 are revised to include the pressure resistance capability of penetration seals and dampers.	-
DCD_19-537	19A.4.4	19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	A new sentence is added at the end of Section 19A.4.3. Section 19A.4.4 is revised to describe design features and functional capabilities of the US-APWR that assure long term cooling (for 24 hours or more) while the plant is	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				producing power.	
DCD_19-538	19A.4.4	19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.4.4 is revised to describe design features and functional capabilities of the US-APWR that assure long term cooling (for 24 hours or more) while the plant is shutdown with the reactor head removed and the reactor water level at or near the reactor vessel head flange.	-
DCD_19-539	19A.4.1 19A.6	19A-3 19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.6, "References," is revised to reflect NEI 07-13, Revision 8, April 2011.	-
DCD_19-541	19A.1 19A.6	19A-1 19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.1 is revised to delete the sentence and reference referring to the NRC providing the loading function. Section 19A.6 is revised to delete Reference 19A-1.	-
DCD_19-542	19A.4.1	19A-2	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date	Section 19A.4.1 is revised to provide additional information about aircraft impact on	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			08/22/2011	the PCCV.	
DCD_19-543	19A.4.2	19A-3	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.4.2 is revised to provide the rationale for limiting potential aircraft strikes on the R/B and PS/B.	-
DCD_19-544	19A.1 19A.4 19A.5	19A-1 19A-2 19A-4	Response to RAI No. 773 MHI Letter No. UAP-HF-11268Date 08/22/2011	Section 19A.4.1, 19A.4 and 19A.5 are revised to optimize the description about the integrity of PCCV.	-
DCD_06.02.05-44	19.2.3.3.2 19.2.5	19.2-8 19.2-37	Response to RAI No. 803 MHI Letter No. UAP-HF-11304 Date 9/9/2011	Withdrawing application of firewater system to enhance containment mixing	-
DCD_06.02.05-45	19.2.3.3.7 19.3.3	19.2-25 19.3-1	Response to RAI No. 803 MHI Letter No. UAP-HF-11304 Date 9/9/2011	Changing position of responsibility for SA equipment survivability from DC applicant to COL applicant and create new COL action item.	-
DCD_19-550	19.1.6.2 New Table 19.1-181	19.1-164 through 19.1-166 19.1-172 19.1-1149	Response to RAI No. 832 MHI Letter No. UAP-HF-11364 Date 10/27/2011	Inserted sensitivity analysis results (Cases 1-2, 4-3, 6-1 and 6-2) and Table 19.1-181 summarizing key sources of uncertainty and key assumptions	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
				for LPSD PRA. Changed the number of sensitivity analyses	
DCD_19-551	19.1.6.2	19.1-171	Response to RAI No. 832 MHI Letter No. UAP-HF-11364 Date 10/27/2011	Inserted RAW of US-APWR unique design, i.e., automatic isolation for low pressure letdown line	-
DCD_19-552	19.1.5.3.1	19.1-114	Response to RAI No. 834 MHI Letter No. UAP-HF-11380 Date 11/8/2011	Added following additional sentence after the last sentence of the last bullet. "In this internal flooding PRA, consequential effects of HELB and MELB are bounded by the effects of floods and major floods assuming all components placed in flood propagation areas lose their function."	-
DCD_19-553	Table 19.1-58	19.1-530	Response to RAI No. 834 MHI Letter No. UAP-HF-11380 Date 11/8/2011	Revised editorial errors in Table 19.1-58.	-
DCD_19-554	Table 19.1-57	19.1-529	Response to RAI No. 834	Revised editorial errors in Table 19.1-57.	-

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
			MHI Letter No. UAP-HF-11380 Date 11/8/2011		
DCD_19-556	19.1.5.3.1	19.1-112	Response to RAI No. 834 MHI Letter No. UAP-HF-11380 Date 11/8/2011	Revised assumption "i" to be clear. "i. Fire protection doors that are not water tight are conservatively assumed as flood propagation paths for flood and major flood scenarios"	-
DCD_19-557	19.1.5.2.1 19.1.5.3.1 Table 19.1-119 (sheet 40,44)	19.1-93 19.1-112 19.1-113 19.1-937 19.1-941	Response to RAI No. 834 MHI Letter No. UAP-HF-11380 Date 11/8/2011	Revised assumptions in DCD 19.1.5.2.1, 19.1.5.1.3, and Table 19.1-119.	-
DCD_08.03.01-38	19.1.3.1 Table 19.1-119 (sheet 15)	19.1-10 19.1-919	Response to RAI No. 394 MHI Letter No. UAP-HF-11404 Date 11/22/2011	Revised the description for adopting different manufacturers for the AAC GTG and Class 1E GTG ensures diversity.	-
MIC-03-19-00004	19.1.7.1	19.1-180 [19.1-182]	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Added last paragraph to discuss PRA evaluation for crediting containment pressure in determining available NPSH of safety pumps.	1

Change ID No.	Location (e.g., subsection, table, or figure)	DCD Rev.3 Page *	Reason for Change	Change Summary	Rev. of T/R**
MIC-03-19-00005	19.1.8	19.1-182 [19.1-185]	GSI-191, Tracking Report MHI Letter No. UAP-HF-11287 Dated 08/31/2011	Added a bullet to address the minimal contribution to plant risk due to crediting containment pressure in NPSH calculation.	1

*Page numbers for the attached marked-up pages may differ from the revision 3 page numbers due to text additions and deletions. When the page numbers for the attached pages do differ, the page number for the attached page is shown in brackets.

**Numerical number is the revision number of the Tracking Report (T/R) which include the markup pages. When the column is "-", the change was not made in a T/R.

The dominant scenarios, dominant cutsets and basic event importance (FV importance and RAW) for the internal flood at LPSD (POS 8-1) are shown in Table 19.1-127, Table 19.1-128, Table 19.1-129 and Table 19.1-130. Important SSCs for internal flood at LPSD are RHR, CCWS and supporting power supply systems. Risk from internal flood at LPSD has been very small though it has been estimated using conservative assumptions.

19.1.7 PRA-Related Input to Other Programs and Processes

The following subsections describe PRA-related input to various programs and processes.

19.1.7.1 PRA Input to Design Programs and Processes

The US-APWR PRA is an integral part of the design process and has been used to optimize the plant design with respect to safety. The PRA models and results have influenced the selection of design alternatives such as four train core cooling systems, an in-containment RWSP, full digital I&C systems.

The US-APWR is expected to perform better than current operating plants in the area of severe accident safety performance since prevention and mitigation of severe accidents, as shown in Table 19.1-1, have been addressed during the design stage, taking advantage of PRA results and severe accident analysis. The PRA results indicate that the US-APWR design results in a low level of risk and meets the CDF, LRF, and containment performance goals for new generation PWRs. Key insights and assumptions are summarized in Table 19.1-119.

The PRA has been used to evaluate the contribution to plant risk from inadequate containment pressure with regards to crediting containment accident pressure in determining available NPSH. In the evaluation of available NPSH of safety injection pumps and CS/RHR pumps it has been assumed that the containment pressure is equal to the RWSP fluid vapor pressure for high sump fluid temperatures (vapor pressure greater than initial containment atmospheric pressure). Events which could reduce containment accident pressure (e.g., impaired containment integrity or operation of heat removal systems at too high a rate) would also accordingly reduce the RWSP fluid temperature, such that the containment accident pressure still bounds the RWSP fluid vapor pressure. However, a rapid depressurization of containment during these periods of high RWSP temperature could potentially cause a loss of sufficient NPSH margin (e.g., due to flashing). An evaluation of the contribution to plant risk from inadequate containment pressure during periods of high sump temperatures during post accident conditions has been performed for all hazard groups. The evaluated core damage risk from inadequate containment pressure is two orders of magnitude lower than the core damage frequency. The contribution to plant risk from inadequate containment pressure was therefore considered negligible. MIC-03-19-00004

19.1.7.2 PRA Input to the Maintenance Rule Implementation

PRA input is provided as required to develop the Maintenance Rule, discussed in Chapter 17 Section 17.6.

- To demonstrate that the plant design represents a reduction in risk compared to existing operating plants: Subsection 19.1.3
- To demonstrate that the design addresses known issues related to the reliability of core and containment heat removal systems at some operating plants: Subsection 19.1.3, Section 19.2
- To support regulatory oversight processes and programs that will be associated with plant operations (e.g., technical specifications, reliability assurance, human factors, maintenance rule, RTNSS): Subsection 19.1.7
- To identify and support the development of design requirements, such as inspection, tests, analysis, and acceptance criteria (ITAAC), reliability assurance program (RAP), technical specification, and Combined License (COL) action items and interface requirements: Subsection 19.1.7, Section 19.3
- To demonstrate that contribution to plant risk is insignificant in determining available NPSH from crediting containment accident pressure during periods of high sump temperatures (vapor pressure greater than initial containment pressure): Subsection 19.1.7.1 MIC-03-19-00005

The results of the US-APWR plant core damage quantification indicate the following CDFs:

- Internal events at power: 1.0E-06/RY
- Internal fire: 8.6E-07/RY
- Internal flood: 8.9E-07/RY
- LPSD: 1.8E-07/RY

Based on SMA, the plant HCLPF value is 0.50 g.

LRFs were determined as follows:

- Internal events at power: 1.1E-07/RY
- Internal fire: 1.9E-07/RY
- Internal flood: 1.6E-07/RY
- LPSD: 1.8E-07/RY

19.1.9 References

19.1-1 Deleted

19.1-2 Deleted

19.1-3 Deleted