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Your ref: Docket No. 52-006  
Our ref: DCP\_NRC\_003087

November 17, 2010

Reference:

1. DCP\_NRC\_002874, Final Information on Proposed Changes for the AP1000 Design Control Document Rev. 18, May 21, 2010

**Subject: Final Information on Proposed Changes for the AP1000 Design Control Document Rev. 18**

This letter is submitted in support of the AP1000 Design Certification Amendment Application (Docket No. 52-006). The information provided is generic and is expected to apply to all Combined License (COL) applicants referencing the AP1000 Design Certification and the AP1000 Design Certification Amendment Application.

Westinghouse provided information on changes which it proposed to include in Revision 18 of the AP1000 Design Control Document (DCD-18) in a May 21, 2010 letter (Reference 1). As a result of discussions with the Staff, Westinghouse has performed a review of the DCD changes associated with the fifty-seven (57) Change Notices (CNs) contained in Reference 1 in order to determine which ones should be withdrawn from consideration for inclusion in DCD-18. Enclosure 1 provides a summary list of those 57 CNs. Each CN has been marked in a column added on the right side of the table to indicate whether it should remain "In" DCD-18 or be taken "Out" including the basis for that disposition.

As noted previously, the changes described in this and the referenced letter do not constitute all of the changes which Westinghouse proposes to include in DCD-18. Rather, the changes in this letter are in addition to those which Westinghouse either has submitted or will submit to the NRC as responses to Requests for Additional Information or Safety Evaluation Report Open Items.

Westinghouse will work with the NRC staff to disposition the changes described in this letter as expeditiously as possible. Questions related to the content of this letter should be directed to Westinghouse. Please send copies of such questions to the prospective COL applicants referencing the AP1000 Design Certification. A representative for each applicant is included on the cc: list of this letter.

DO96  
HRO

Very truly yours,



R. F. Ziesing  
Director, U.S. Licensing

/Enclosures

1. Description of Proposed Changes for AP1000 DCD Rev. 18, Non-Proprietary

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ENCLOSURE 1

Description of Proposed Changes for AP1000 DCD Rev. 18, Non-Proprietary

Westinghouse Non-Proprietary Class 3  
Final - Proposed Changes for AP1000 DCD Rev 18

Change Number	Tier	Chapter Number	Section/Table/ Figure Numbers	Description of DCD Change	Description of Design Change	Applicable Regulatory Standard that Design Meets	Assessment of NRC Review Resources	In/Out Of DCD-18 (See Note 1 at bottom)
1	Reported in DCP_NRC_002850 (4/26/2010)							In - I
2	2	3	Table 3.2-3 (Sh 30/68)	AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment-add info on affected valves RNS-PL-V025/V026.			Medium	Out
			Table 3.9-16 (Shs 14,15,23/23)	Add Containment Isolation Leak Test to IST Type and Frequency column. Delete Note 16.				
			Table 3-11-1 (Sh 41/50)	Environmentally Qualified Electrical and Mechanical Equipment-add info on affected valves RNS-PL-V025/V026				
		5	Table 3I.6-3 (Sh 21/31)	Add info on RNS-PL-V025/V026 to table				
			Figure 5.4-7	RNS P&ID-add detail of changes to affected valves RNS-PL-V025/V026 to figure				
		6	Table 6.2.3-1 (Sh 2, 4/4)	Containment Mechanical Penetrations and Isolation Valves – add info on valves RNS-PL-V002A/B. Delete Note 6.				
3	2	3	Table 3.9-16 (Sheet 10/23)	V108A/B was changed from globe to ball valve.	The valve was changed from a globe valve to a ball valve.	ASME Boiler and Pressure Vessel Code, Section III - Class 1	Medium	Out
		6	Section 6.3.2.1.2 Figure 6.3-2 Figure 6.3-4					

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4	2	3	Table 3.2-3 (sh 22/68)	Test valves added.	Remove the system requirements for remote position indication for valves PXS-PL-016A/B, PXS-PL-017A/B, PXS-PL-028A/B and PXS-PL-029A/B.	ASME Boiler and Pressure Vessel Code, Section III - Class 1	Medium	In - RO
			Table 3.11-1 (sh 38/50)	Test valves added.				
			Table 3.9-16 (sh 8,9/23), Notes	CMT check valves added; remote position function removed for accumulator check valves; Note 10 revised to remove quarterly open verification.	Change valves PXS-PL-016A/B, PXS-PL-017A/B from swing check to in-line nozzle check valves.			
		6	Table 3I.6-3 (Sh 18/31)	Test valves added.	Add three test connections for each CMT outlet line to facilitate testing of the check valves. Add three safety related 1-inch manual valves to each CMT outlet line.			
			Section 6.3.2.2.8.1	Delete sentence describing check valves. This sentence had described all check valves as either piston type or swing type which is no longer true.				
			Section 6.3.7.6.1	Revise valve position indication description.				
			Section 6.3.7.6.2	Delete last sentence because there is no reference to Chapter 7 in Table 6.3-1.				
			Figure 6.3-1	Revise PXS P&ID				
			Table 6.3-3 (sh 1/4)	Revise entry for CMT discharge line check valves.				
5	Reported in DCP_NRC_002850 (4/26/2010)							In - I
6	Reported in DCP_NRC_002850 (4/26/2010)							In - I
7	2	6	Figure 6.3-2 (sh 2)	Change of position for the PRHR HX flow meter			Medium	Out

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8				Reported in DCP_NRC_002850 (4/26/2010)				In - I
9				Reported in DCP_NRC_002850 (4/26/2010)				In - I
10A	1	2	Section 2.2.5	Section 2.2.5 - correct table number is 2.2.5-5			Low	In - EC
10B	2	1	Reg Guide 1.93	Reg. Guide 1.93 - change judgement to judgment			Low	Out
			Table 1.1-1 (Shs 1,2,3/4)	Table 1.1-1: Sh 1 - Delete "n" from American Sh 2 - In-containment - lower case and hyphen Sh 2 - Add GRCA Sh 2 - Add Criterion Sh 3 - Add "s" to Motor operated valves				
			Table 1.6-1 (Sh 4/20)	Table 1.6-1: Revision 1 to Revision 2 for WCAP-15949.				
	2	3	Section 3.7.3.13.4.3	Section 3.7.3.13.4.3 Third and fourth bullets should be combined into one bullet.				
	2	3	Section 3.8.3.5.7	Section 3.8.3.5.7- change judgement to judgment				
			Section 3.8.4.5.3	Section 3.8.4.5.3- change judgement to judgment				
			Section 3.8.5.4.3	Section 3.8.5.4.3- change judgement to judgment				
			Section 3.8.5.4.4	Section 3.8.5.4.4 - change judgement to judgment				
				Section 3.8.5.4 - grammatical error - change "do" to "does"				
			Section 3.10	Section 3.10.1.1 - reference renumbering				

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		5	Section 3B.2.6	Section 3B.2.6 - typo - "vavle" to "valves"				
			Section 5.4.7.2	Section 5.4.7.2 - in-containment				
			Table 5.4-17	Table 5.4-17 - add word "subsection" in Note				
		9	Table 9.2.1-1	Table 9.2.1-1 - "is" to "in"				
			Table 9A-3 (Shs 8, 24/24)	Table 9A-3: Sh 8 - change RNS Pump B heat value Sh24 - Table entries out of order and fire area zone 6030AF603214 should be 6030AF60324.				
		14	Section 9A.3.6.2	Section 9A.3.6.2 - Change "room" to "area"				
			Section 14.2.9.4.9	Section 14.2.9.4.9 - move "and" to before blower				
		16	Section B 3.2.5	Section B 3.2.5 - RTD should be RTP				
			Section B 3.6.2 Section B 3.8.1 Section B 3.8.5 Section B 3.9.2 Section B 3.9.4	B 3.6.2, B 3.8.1, B 3.8.5, B 3.9.2, B 3.9.4 - change judgement to judgment				
		17	Table 17.4-1 (Sh 1/8)	Table 17.4-1 - type in title - delete "DCD"				
		18	Section 18.8	Section 18.8 - Reference 45: add document number and revision; correct title				
		19	Section 19.1.7	Reference 19.1-3 - provide document number and full title				

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			Section 19.59.6.1  Section 19.59.6.2	Section 19.59.6.1 - Change judgement to judgment  Section 19.59.6.2 - Change judgement to judgment				
11	2	3	Section 3.4.1.2.2.1	Correct flood barrier and description of Rooms 11207 - 11209			Low	In – EC
12	2	9	Section 9.1.5.2.1.2  Section 9.1.5.2.2.2	Change the word "shall" to "should"  Change the word "shall" to "should"			Low	Out
13	2	8	Table 8.3.1-2 (Sheet 4/4)	Spent fuel pump horsepower			Low	Out
14	Reported in DCP_NRC_002850 (4/26/2010)							In – I & A
15	2	3   5  16	Table 3.3.1-1  Table 3.3.2-1  Section 5.5.7  Section B 3.1.9  Section B 3.4.1  Section B 3.6.6  Section B 3.6.8	Table 3.3.1-1 - add other to header  Table 3.3.2-1 - Page 9 header spacing  Section 5.5.7 - "ensure" to "ensures"  Section B 3.1.9 - "signalled" to "signaled"  Section B 3.4.1 - "loadchanges" to "load changes"  Section B 3.6.6 - "these" to "this"  Section B 3.6.8 - "a accident" to "an accident"			Low	In - EC



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			Section B 3.6.9  Section B 3.7.10  Section B 3.8.5  Table B.3.8.5-1	Section B 3.6.9 - "dash" to a "dot"  Section B 3.7.10 - "Reference 6" to "Reference 3"  Section B 3.8.5 - "Ref. 3" to "Ref. 4". Add Ref 4.  Table B 3.8.5 - center Table Heading				
16	2	15	Tier 2 Master TOC  Tier 2 Rev 17 - Change Roadmap  Ch 15, p cxci - cxciv	Replace all DCP/NRC2209 with DCP/NRC2321			Low	In – EC
17	2	3	Figure 3G.4-7Y  Figure 3G.4-7Z	These figures should be changed to Elevation 116.50' to match the elevation on Figure 3G.4-7X			Low	In – EC
18	2	9	Table 9.1-3 (Sheet 1/2)	Changed Spent Fuel Pool Heat Exchanger Design Pressure from 150 to 200 psig			Low	Out

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24	2	9	Section 9A.3.4.14  Table 9A-3 (Sheets 19, 20/24)	Fire Area 4034 AF 01 - change subdivisions  Fire Protection Summary-entries in table modified as appropriate			Low	In - A
25	2	5  9A  19D	Section 5.3.1.1  Section 9A.3.4.3B Table 9A-3 (Sheet 5/24)  Section 19D.8.2.2 Section 19D.8.2.13	Added flow skirt to list of components for which the reactor vessel provides support.  Change description of Fire Area 4002 AF 03  Change combined load and equivalent duration for Fire Area 1244 AF 12451, Security Room.  Revised description of equipment survivability assessment for thermocouples Discussion of use of float level sensors in severe accident management.			Low	In - A  ↓ Out (See Note 2 at bottom) ↓
26	2	9	Section 9.2.11.1	Change "compatibility" to "habitability"			Low	In - EC
27	2	10	Table 10.1-1	Steam Generator Outlet Pressure - Revise value to 821 psig from 823 psig			Low	In - EC
28	2	5	Section 5.4.4.3	Units of pressure differential - Change "psig" for the units of pressure differential to "psi"			Low	In - EC
29	2	1	Appendix 1A, Reg. Guide 1.50	Criteria wording - Change "pressurized water heat transfer" to "post-weld heat treat"			Low	In - EC

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30	2	3	Table 3.2-3 (sh 10/ 69)  Table 3.11-1 (sh 33/51)  Table 3I.6-3 (sh 13/32)	Adds a class C valve to table 3.2-3, 3.11-1 and 3I.6-3.	This change adds class C valve PCS-PL-V026 (Water Bucket Auxiliary Makeup Line Isolation Valve) to Tables 3.2-3, 3.11-1 and 3I.6-3	10 CFR 52 SECY-08-0152	Low	Out
31	2	1	Table 1.8-1 (sh1/6)	Remove Item 1.1 of Table 1.8-1.	Delete Item 1.1 of Table 1.8-1 to be consistent with Section 1.9.3 of DCD.	Post-Accident Sampling, NUREG-0737	Low	In – EC
32	1	2	Table 2.6.9-1	ITAAC number 3 in the Acceptance Criteria reads "see Tier 1 material, Table 3.3-6, Item 6". It should be "item 16"			Low	In – EC
33	2	9	Table 9A-3 (sh12/24)	Fire Protection Summary-Fire Area 2030AF20300-change Heat Values for plastic and volatiles			Low	Out
34	2	9	Table 9.3.3-2 (Sheet 3/4)	WGS inlet moisture indication - Remove WGS inlet moisture indication consistent with Ch 11 changes to remove moisture monitor.			Low	In - EC

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35	2	9	Table 9.3.4-1 (Sheet 1, 2/2)	Secondary Sampling System - Clarify the type of specific conductivity measured.			Low	In - EC
36	2	1	Section 1.8 Table 1.8-1 (Sheet 5/7)	Waste Water System - Remove retention basin and raw water system associations.			Low	In - A
		9	Section 9.2.5.3					
37	No Technical Change – PDF Error only. The page which added Reference 10 to the Chapter 13 list of references was included in the paper copy of DCD Revision 17 but was not included in the corresponding PDF file transmitted to the NRC. This page will be included in the DCD Revision 18 PDF file.							In - EC
38	2	1A	Conformance with Regulatory Guides - Criteria Section C.5 and C.6 of RG 1.133 Rev 1, Loose Part Detection Program for the Primary System of Light-Water-Cooled Reactors	Revised reason for criteria section C. 5 and C.6.			Low	Out
39	2	17	Section 17.6	APP-GW-GL-022 is referenced as Rev. 0. That should be Rev. 8.			Low	In - EC

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40	2	3	16 Table 3.3.3-1  B.3.3.3	Post-Accident Monitoring Instrumentation list of variables. Revised Function 19 requirements.  PAM Instrumentation Bases. Revised Function 19 Bases.	Change the number of required instruments for Function 19 from 2 to 1 for the IRWST to RNS suction valve status variable, revise note (c), and revise the Bases, B 3.3.3, Function 19 for the IRWST to RNS Suction Valve Status. The position of the two motor-operated valves in the line from the IRWST to the RNS pump suction header is monitored to verify that the flow path is isolated following postulated events. The flow path must be isolated to prevent loss of IRWST inventory into the RNS.	Reg. Guide 1.97	Low	Out
41	2*	3	Figure 3.8.3-8 (Sheet 3/3)	Modify Plant Module Bolted Connection			Low	Out
42	2	1	Section 1.9.5.1.11	The normal operating pressure is shown as 2250 psig and it should be 2250 psia.			Low	In – EC
43	2	1	Section 1.7	Text was provided on Interpretation of figures in Tier 2.			Low	In - EC

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44	2	5	Table 5.2-1 (Sh 2/6)	Table 5.2-1 of the DCD identifies the acceptable safe end material for use on the pressurizer as SB-163 (NO6690). This is changed to SB-564.	The material designated for the nozzle safe ends of the pressurizer is changed from SB-163 to SB-564.	ASME Boiler and Pressure Vessel Code, Section II - Materials	Low	Out
45	SEE RAI SRP-11.5-CHPB-05							In – RO
46	2	4	Section 4.5.2.1	Reactor Internal and Core Support Materials, Materials Specifications - added the material used for the flow skirt; added product forms that may be used by reactor internals structures; added components that were not stainless steel, i.e., locating and support pins, instrumentation adapter, instrument tube tip, guide stud, instrument stalk spring; changed instrument guide tube spring to instrument tube sleeve spring; added statement that reactor internals structures will use threaded structural fasteners of strain hardened Type 316 stainless steel; added internals structures materials as being addressed in the ASME code; clarified applicable section of ASME code.	This section describes the materials and product forms used for reactor vessel internals. There are additional materials and product forms that are being used beyond what is currently described in the DCD. These are related to internal structures and are provided in the revision. In addition the section of the ASME Code referenced is incorrect and is corrected in the revision.	ASME Code, Section II Part D, Subpart 1	Low	Out

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47	2	7	Section 7.6.2.1	Availability of engineered safety features - Passive residual heat removal heat exchanger inlet isolation valve. Delete the following sentence: To prevent an inadvertent closure of the valve, redundant output cards are used in the protection and safety monitoring system cabinet.			Low	Out
48	2	1	Table 3.2-3 sheet 21/69	AP1000 Classification of Mechanical and Fluid Systems, Components, and Equipment - the safety classification of valves PXS-PL-V128A/B and 129A/B is changed from Class B to Class A			Low	In – EC
49	2	3	Section 17.4.7.4	Revise section to point to Table 3.9-16 for testing requirements.			Low	In – EC
50	2	3	Table 3.9-16 sh 10, 11/23	Valve in-service test requirements - Revise the entry under Inservice Testing Type and Frequency for valves PXS-PL-V119A, PXS-PL-V119B, PXS-PL-				In - RO



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				V122A, PXS-PL-V122B, PXS-PL-V124A and PXSPLV124B as follows: (1) Remote Position Indication, Exercise/2 years (2) Check-Initial-Open Differential Pressure Refueling (3) Check Exercise/Refueling Shutdown				
51	2	5	Section 5.4.4.2	Main steam line flow restriction - design description			Low	In – EC
52	2	16	B 3.6.9  B 3.5.1 B 3.5.2 B 3.7.2	Change number of baskets from two to four  Consistency - spelling of "steam line"			Low	In – EC
53A	1	3	Figure 3.3-11 Figure 3.3-12 Figure 3.3-13	Annex Building Plan View - delete column lines which are not mentioned in Table 3.3-1			Low	Out
53B	2	3	Figure 3.7.2-19 (Sheets 1,2,3,5,6,7,8/10)	Annex Building Key Structural Dimensions - change Annex Bldg column line 10 to 10.05			Low	Out
54	2  2*  2	1  6  9  12	Figure 1.2-8 Figure 1.2-9 Figure 6.4-1 Figure 9A-1(Sh 6/16) Figure 12.3-1(Sh 7/16) Figure 12.3-2(Sh 7/15) Figure 12.3-3(Sh 7/16)	Nuclear island fire area plan-relocate kitchen; decrease size of shift supervisor's office and add a second bathroom; add a basin in the raised floor below the toilet rooms and kitchen; relocate ancillary fans and self-contained breathing apparatus; add a fire door between operator break room and work area.			Low	Out

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55A	Reported in DCP__NRC__002850 (4/26/2010)							In – I
55B								
56A	1	2	List of Figures Fig 2.3.3-1	Delete "and Auxiliary Boiler" from figure title			Low	In – EC
56B	2	14	Table 14.3-1	ITAAC Screening Summary-Delete "and Auxiliary Boiler" from Structure/System Description			Low	In – EC
57	2	1	Fig 1.2-9	Nuclear Island General Arrangement			Low	In - EC
		9	Section 9.1.4.3.1	Safety Evaluation - Refueling Machine				

Notes:

1) The following criteria were used to determine which CNs should remain in DCD Rev 18:

1. DCD changes associated with a DCP which met one or more of the ISG-11 criteria;
2. DCD changes associated with a DCP which was not properly incorporated in DCD Rev 17 (identified as the result of our response to a 2008 NRC audit finding);
3. DCD changes associated with an RAI or SER OI response;
4. DCD changes which are considered errata, clarification, or consistency related changes (as recently discussed with the NRC for Reference 1 only).

Each CN has been marked according to the criteria that it meets as shown below:

- Meets criteria 1 – marked as "In – I"
- Meets criteria 2 – marked as "In – A"
- Meets criteria 3 – marked as "In – RO"
- Meets criteria 4 – marked as "In – EC"

If the CN did not meet any of the above criteria it was marked as "OUT" meaning that it is being withdrawn from consideration for inclusion in DCD-18.

2) Although these changes to Chapter 19 were identified in our response to the 2008 NRC audit finding, we are electing to leave them out of DCD-18 because these particular changes had not been reviewed by NRC staff and were not related to a DCP which had been reviewed.