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Your ref: Docket No. 52-006

Our ref: DCP/NRC1721

February 9, 2005

SUBJECT: AP1000 Design Certification Documents

An electronic version of the AP1000 Design Control Document (DCD) Revision 14 is enclosed for public availability with certain figures withheld under 10CFR 2.390.

The Westinghouse topical reports and letters identified in the list of Attachment 1 were previously submitted to the U. S. NRC as part of the AP600 Design Certification review under Docket No. 05200003. These same documents have been used as a basis for the AP1000 Design Certification application. Westinghouse requests that these documents be added to the AP1000 Design Certification Docket No. 05200006.

Please contact me at 412-374-4728 if you have further questions concerning this transmittal.

Very truly yours,

  
R. P. Vijuk, Manager  
Passive Plant Engineering  
AP600 & AP1000 Projects

/Enclosure

1. APP-GW-GL-700, Rev. 14, "AP1000 Design Control Document," September 7, 2004

/Attachment

1. Westinghouse Additions of AP600 Documents to the AP1000 Design Certification Docket 05200006 dated

cc: J. N. Wilson – U. S. NRC, Rockville, MD

D063

DCP/NRC1721  
February 9, 2005

**ATTACHMENT 1**

**AP1000 Design Certification Documents**

## ATTACHMENT 1

### Westinghouse Additions of AP600 Documents to the AP1000 Design Certification Docket 05200006

1. WCAP-14605 (P), WCAP-14606, "Westinghouse Setpoint Methodology for Protection Systems - AP600," April 1996, letter **DCP/NRC0503**.
2. WCAP-13383, "AP600 Instrumentation and Control Hardware & Software Design, Verification & Validation Process Report," Rev 1, Letter **DCP/NRC0526**.
3. WCAP-13286, "AP600 Passive Core Cooling System Check Valve Test Final Report," (Proprietary), WCAP-13287 (Nonproprietary), April 1992, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
4. WCAP-13891, "AP600 Automatic Depressurization System Phase A Test Data Report," (Proprietary), WCAP-14095 (Nonproprietary), May 1994, Letter **DCP/NRC0114**.
5. WCAP-14134, "AP600 Passive Containment Cooling System Integral Small-Scale Tests Final Report," (Proprietary), WCAP-14137 (Nonproprietary), August 1994, Letter **DCP/NRC0167**.
6. WCAP-13566, "AP600 1/8th Large Scale Passive Containment Cooling System Heat Transfer Baseline Data Report," (Proprietary), WCAP-13567 (Nonproprietary), Revision 1, December 1992, letter **DCP/NRC0098**.
7. WCAP-13294, "Phase I Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-13295 (Nonproprietary), April 1992, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
8. WCAP-13323, "Phase II Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-13324 (Nonproprietary), August 1992, Letter **ET-NRC-92-3753**.
9. WCAP-14068, "Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-14084 (Nonproprietary), May 1994, letter **DCP/NRC0096**.
10. WCAP-14169, "Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor, Supplemental Report," (Proprietary), WCAP-14170 (Nonproprietary), September 1994, letter **DCP/NRC0212**.
11. WCAP-14091, "Phase IVb Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-14092 (Nonproprietary), July 1994, letter **DCP/NRC0132**.
12. WCAP-12980, "AP600 Passive Residual Heat Removal Heat Exchanger Test Final Report," (Proprietary), WCAP-13573 (Nonproprietary), Revision 3, April 1997, Letter **DCP/NRC0850**.

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13. WCAP-14371, "AP600 Low Flow Critical Heat Flux (CHF) Test Data Analysis." (Proprietary), WCAP-14372 (Nonproprietary), May 1995, Letter **DCP/NRC0332**.
14. WCAP-14252, "AP600 Low Pressure 1/4 Height Integral Systems Tests - Final Data Report," (Proprietary), WCAP-14253 (Nonproprietary), Revision 1, November 1998, letter **DCP/NRC1446**.
15. WCAP-14309, "AP600 Design Certification Program, SPES-2 Tests Final Data Report," (Proprietary), WCAP-14310 (Nonproprietary), Revision 2, May 1997, letter **DCP/NRC0935**.
16. WCAP-12648, "AP600 Incore Instrumentation System Electromagnetic Interference Test Report," (Proprietary), WCAP-13322 (Nonproprietary), Revision 1, April 1992, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
17. WCAP-12668, "AP600 High Inertia Rotor Testing - Phase I, Test Report," (Proprietary), WCAP-13321 (Nonproprietary), March 1990, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
18. WCAP-13319, "AP600 High Inertia Rotor Testing - Phase 2 Report," (Proprietary), WCAP-13320 (Nonproprietary), August 1991, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
19. WCAP-14477, "The AP600 Adverse Systems Interactions Evaluation Report," Revision 2, November 1997, letter **DCP/NRC1111**.
20. WCAP-13382 (P), WCAP-13391, "AP600 Instrumentation and Control Hardware Description," May 1992, Letters **SAL/NRC0025 & ET-NRC-92-3735**.
21. WCAP-14080 (P), WCAP-14081, "AP600 Instrumentation and Control Software Architecture and Operation Description," June 1994, letter **DCP/NRC0120**.
22. WCAP-14690, "Designer's Input to Procedure Development for the AP600," Revision 1, June 1997, letter **DCP/NRC0932**.
23. WCAP-14234, "LOFTRAN and LOFTTR2 AP600 Code Applicability Document," Revision 1, August 1997, letter **DCP/NRC1001**.
24. WCAP-14206 (P), "Applicability of the NOTRUMP Computer Code to AP600 SSAR Small-Break LOCA Analyses," November 1994, letter **DCP/NRC0248**.

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(P) Denotes Document is Proprietary

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25. WCAP-14601 (P), "AP600 Accident Analyses – Evaluation Models," Revision 2, June 1998, letter **DCP/NRC1376**.
26. WCAP-14807, "NOTRUMP Final Validation Report for AP600," Revision 5, August 1998, letter **DCP/NRC1410**.
27. WCAP-14645, "Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant," Revision 2, December 1996, Letter **NSD-NRC-97-4930**.
28. WCAP-14644, "AP600 Functional Requirements Analysis and Function Allocation," September 1996, Letter **DCP/NRC0614**.
29. WCAP-14694, "Designer's Input to Determination of the AP600 Main Control Room Staffing Level," July 1996, Letter **DCP/NRC0585**.
30. WCAP-13793, "The AP600 System/Event Matrix," June 1994, letter **DCP/NRC0119**.
31. WCAP-13388 (P), WCAP-13389, "AP600 Phenomenological Evaluation Summaries," (Prop - Rev. 0, June 1992, Non-Prop - Rev. 1, 1994), Letter **DCP/NRC0038**.
32. WCAP-13914, Rev. 3, "Framework for AP600 Severe Accident Management Guidance," letter **DCP/NRC1080**.
33. WCAP-14837, "AP600 Shutdown Evaluation Report," Revision 3, March 1998, letter **DCP/NRC14837**.
34. WCAP-14324, Revision 0, Final Data Report for ADS Phase B1 Tests, April 1995, letter **DCP/NRC0296**.
35. WCAP-14171, "WCOBRA/TRAC Applicability to AP600 Large-Break Loss-of-Coolant Accident," Revision 2, March 1998, letter **DCP/NRC1312**.
36. WCAP-14651, "Integration of Human Reliability Analysis and Human Factors Engineering Design Implementation Plan," Revision 2, May 1997, Letter **DCP/NRC0856**.
37. WCAP-12665, Revision 1, Proprietary, "Tests of Heat Transfer and Water Film Evaporation on a Heated Plate Simulating Cooling of the AP600 Reactor Containment," April 24, 1992, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
38. WCAP-13341, Revision 0, Non-Proprietary, "Tests of Heat Transfer and Water Film Evaporation on a Heated Plate Simulating Cooling of the AP600 Reactor Containment," April 24, 1992, Letters **SAL/NRC0023 & ET-NRC-92-3688**.

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39. WCAP-13277, Revision 1, Proprietary, "Scaling, Design and Verification of the SPES-2, the Italian Experimental Facility Simulator of the AP600 Plant," May 1993, Letter **ET-NRC-93-3883**.
40. WCAP-13278, Revision 1, Non-Proprietary, "Scaling, Design and Verification of the SPES-2, the Italian Experimental Facility Simulator of the AP600 Plant," May 1993, Letter **ET-NRC-93-3883**.
41. WCAP-13328, Revision 0, Proprietary, "Tests of Air Flow Path for Cooling the AP600 Reactor Containment," AP600 Document PCS-T2R-010, March 1988, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
42. WCAP-13329, Revision 0, Non-Proprietary, "Tests of Air Flow Path for Cooling the AP600 Reactor Containment," AP600 Document PCS-T2R-010, March 1988, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
43. WCAP-13342, Revision 0, Proprietary, "AP600 Automatic Depressurization System Test," January 1991, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
44. WCAP-13343, Revision 0, Non-Proprietary, "AP600 Automatic Depressurization System Test," January 1991, Letters **SAL/NRC0023 & ET-NRC-92-3688**.
45. WCAP-13957, Revision 0, Proprietary, "AP600 Reactor Coolant Mass Inventory:Function-Based Task Analysis," January 31, 1994, Letter **NTD-NRC-94-4042**.
46. WCAP-13958, Revision 0, Non-Proprietary, "AP600 Reactor Coolant Mass Inventory: Function-Based Task Analysis," January 31, 1994, letter **NTD-NRC-94-4042**.
47. WCAP-14053, Revision 2, Proprietary, "AP600 FHFP Integral Systems Test Specification (SPES-2)," April 1995, letter **DCP/NRC0323**.
48. WCAP-14056, Revision 2, Non-Proprietary, "AP600 FHFP Integral Systems Test Specification (SPES-2)," April 1995, letter **DCP/NRC0323**.
49. WCAP-14075, Revision 0, Non-Proprietary, "AP600 Design Differences Document for the Development of Emergency Operating Guidelines Report," May 20, 1994, letter **DCP/NRC0101**.
50. WCAP-14124, Proprietary, "AP600 Low-Pressure Integral Systems Test at Oregon State University — Facility Description Report," July 1994, letter **DCP/NRC0170**.
51. WCAP-14136, Non-Proprietary, "AP600 Low-Pressure Integral Systems Test at Oregon State University — Facility Description Report," July 1994, letter **DCP/NRC0170**.

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52. WCAP-14149, Revision 0, Proprietary, "VAPORE Facility Description Report, AP600 Automatic Depressurization System Phase A Test," August 1994, letter **DCP/NRC0196**.
53. WCAP-14150, Revision 0, Non-Proprietary, "VAPORE Facility Description Report, AP600 Automatic Depressurization System Phase A Test," August 1994, letter **DCP/NRC0196**.
54. WCAP-14169, Revision 0, ~~WCAP-14150-R0~~, Proprietary, "Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor, Supplemental Report," September 1994. (WCAP Number requested on this NRC list does not compare with AP1000 records. Please compare titles of WCAP-14169 and WCAP-14150).
55. WCAP-14172, Revision 2, Non-Proprietary, "WCOBRA/TRAC Applicability to AP600 Large Break Loss-of-Coolant Accident," March 1998, letter **DCP/NRC1364**.
56. WCAP-14207, Revision 0, Non-Proprietary, "Applicability of the NOTRUMP Computer Code to AP600 SSAR Small Break LOCA Analyses," November 1994, letter **DCP/NRC0248**.
57. WCAP-14215, Revision 0, Proprietary, "AP600 Core Makeup Tank Test Analysis," December 1994, letter **DCP/NRC0251**.
58. WCAP-14216, Revision 0, Non-Proprietary, "AP600 Core Makeup Tank Test Analysis," December 1994, letter **DCP/NRC0251**.
59. WCAP-14235, Revision 1, Non-Proprietary, "LOFTRAN & LOFTTR2 AP600 Code Applicability Document," June 1997, letter **DCP/NRC1052**.
60. WCAP-14303, Revision 0, Proprietary, "Facility Description Report, AP600 Automatic Depressurization System Phase B1 Tests," March 1995, letter **DCP/NRC0291**.
61. WCAP-14304, Revision 0, Non-Proprietary, "Facility Description Report, AP600 Automatic Depressurization System Phase B1 Tests," March 1995, letter **DCP/NRC0291**.
62. WCAP-14305, Revision 3, Proprietary, "AP600 Test Program ADS Phase B1 Test Analysis Report," April 1998, Letter **DCP/NRC1339**.
63. WCAP-14306, Revision 2, Non-Proprietary, "AP600 Test Program ADS Phase B1 Test Analysis Report," April 1998, Letter **DCP/NRC1339**.
64. WCAP-14307, Revision 1, Proprietary, "AP600 LOFTRAN-AP and LOFTTR2-AP Final Verification and Validation Report," August 1997, Letter **DCP/NRC1001**.

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65. WCAP-14308, Revision 1, Non-Proprietary, "AP600 LOFTRAN-AP and LOFTTR2-AP Final Verification and Validation Report," August 1997, Letter **DCP/NRC1052**.
66. WCAP-14326, Revision 3, Proprietary, "Experimental Basis for the AP600 Containment Vessel Heat and Mass Transfer Correlations," F. Delose, R. P. Ofstun and D. R. Spencer, April 1998, Letter **DCP/NRC1358**.
67. WCAP-14327, Revision 3, Non-Proprietary, "Experimental Basis for the AP600 Containment Vessel Heat and Mass Transfer Correlations," April 1998, Letter **DCP/NRC1363**.
68. WCAP-14401, Revision 3, Non-Proprietary, "Programmatic Level Description of the AP600 Verification and Validation Plan," April 1997, Letter **DCP/NRC0856**.
69. WCAP-14407, Revision 3, Proprietary, "WGOthic Application to AP600," J. Woodcock, et. al., April 1998, Letter **DCP/NRC1355** and **DCP/NRC1395**.
70. WCAP-14408, Revision 0, Non-Proprietary, "WGOthic Application to AP600," J. Woodcock, et. al., October 1996, Letter **DCP/NRC0837**.
71. WCAP-14425, Revision 0, Non-Proprietary, "Evaluation of the AP600 Conformance to Inter-System Loss-of-Coolant Accident Acceptance Criteria," July 1995, Letter **DCP/NRC0361**.
72. WCAP-15062 (Typo: WCAP-15602), Revision 2, Non-Proprietary, "AP600 Accident Analysis, Evaluation Models," May 1998, Letter **DCP/NRC1376**.
73. WCAP-14727, Vol. 1 & 2, Revision 2, Proprietary, "AP600 Scaling and PIRT Closure Report," February 1998, Letter **DCP/NRC1275**.
74. WCAP-14953, Vol. 1 & 2, Revision 2, Non-Proprietary, "AP600 Scaling and PIRT Closure Report," February 1998, Letter **DCP/NRC1421** and **DCP/NRC1437**.
75. WCAP-14761, Revision 3, Proprietary, "AP600 Reactor Internals Flow-Induced Vibration Assessment Program," March 1996, Letter **DCP/NRC0486**.
76. WCAP-14762, Revision 3, Non-Proprietary, "AP600 Reactor Internals Flow-Induced Vibration Assessment Program," October 1996, Letter **DCP/NRC0633**.
77. WCAP-14800, Revision 0, Non-Proprietary, "AP600 PRA Thermal/Hydraulic Uncertainty Evaluation for Passive System Reliability," June 1997, Letter **DCP/NRC0924**.

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78. WCAP-14812, Revision 2, Proprietary, "Accident Specification and Phenomena Evaluation for the AP600 Passive Containment Cooling System," April 1998, Letter **DCP/NRC1337**.
79. WCAP-14812, Revision 0, Non-Proprietary, "Accident Specification and Phenomena Evaluation for the AP600 Passive Containment Cooling System," December 1996, Letter **DCP/NRC0728**.
80. WCAP-14845, Proprietary, Revision 3, "Scaling Analysis for AP600 Containment Pressure During Design-Basis Accidents," March 1998, Letter **DCP/NRC1311** and **DCP/NRC1379**.
81. WCAP-14846, Revision 3, Non-Proprietary, "Scaling Analysis for AP600 Containment Pressure During Design-Basis Accidents," March 1998, Letter **DCP/NRC1350**.
82. WCAP-14869, Revision 0, Non-Proprietary, "MAAP4/NOTRUMP Benchmarking to Support the Use of MAAP4 for the AP600 PRA Success Criteria Analyses," April 1, 1997, Letter **DCP/NRC0817**.
83. WCAP-12600, "AP600 Advanced Light Water Reactor Design Quality Assurance Program Plan," Revision 3, January 10, 1997 and WCAP-12600, Revision 4, "AP600 Advanced Light Water Reactor Design Quality Assurance Program Plan (QAPP)," January 26, 1998, Letter **DCP/NRC1217**.
84. WCAP-13234, Revision 2, Proprietary, "Test Specification for Long Term Cooling Test," PXS-T1P-001, August 1994, Letter **DCP/NRC0189**.
85. WCAP-13283, Revision 2, Non-Proprietary, "Test Specification for Long Term Cooling Test," August 1994, Letter **DCP/NRC0189**.
86. WCAP-13267, Revision 0 1, Proprietary, "Test Specification: Large-Scale Passive Containment Cooling Test," PCS-T1P-002, April 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
87. WCAP-13268, Revision 0 1, Non-Proprietary, "Test Specification: Large-Scale Passive Containment Cooling Test," April 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
88. WCAP-13290, Revision 0, Proprietary, Passive Containment Cooling System Water Distribution Test Specification, PCS-T1P-001, November 1990, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
89. WCAP-13291, Revision 0, Non-Proprietary, Passive Containment Cooling System Water Distribution Test Specification, November 1990, Letter **ET-NRC-92-3688 & SAL/NRC0023**.

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90. WCAP-13296, Revision 0, Proprietary, PCS Water Distribution Test Phase II Test Data Report," PCS-T2R-007, March 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
91. WCAP-13297, Revision 0, Non-Proprietary, PCS Water Distribution Test Phase II Test Data Report," March 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
92. WCAP-13307, Revision 0, Proprietary, "Condensation in the Presence of a Noncondensable Gas: Experimental Investigation," PCS-T2R-009, April 1991, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
93. WCAP-13308, Revision 0, Non-Proprietary, "Condensation in the Presence of a Noncondensable Gas: Experimental Investigation," April 1991, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
94. WCAP-13353, Revision 0, Proprietary, "Passive Containment Cooling System Water Distribution, Phase 1 Test Data Report," PCS-T2R-008, April 9, 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
95. WCAP-13354, Revision 0, Non-Proprietary, "Passive Containment Cooling System Water Distribution, Phase 1 Test Data Report," April 1992, Letter **ET-NRC-92-3688 & SAL/NRC0023**.
96. WCAP-13391, Revision 0, Non-Proprietary, "AP600 Instrumentation and Control Hardware Description," GW-J1-001, May 1992, Letter **ET-NRC-92-3735**.
97. WCAP-13960, Revision 0, Proprietary, "PCS Water Distribution Phase 3 Test Data Report," PCS-T2R-019, December 1993, Letter **DCP/NRC0002**.
98. WCAP-13961, Revision 0, Non-Proprietary, "PCS Water Distribution Phase 3 Test Data Report," December 1993, Letter **DCP/NRC0002**.
99. WCAP-13963, Revision 1, Non-Proprietary, "Scaling Logic for the Core Makeup Tank Test," MT01-T6R-001, January 1995, Letter **DCP/NRC0265**.
100. WCAP-14073, Revision 0, Proprietary, "SPES-2 Facility Description," PXS-T3R-001, May 1994, Letter **DCP/NRC0115**.
101. WCAP-14074, Revision 0, Non-Proprietary, "SPES-2 Facility Description," May 1994, Letter **DCP/NRC0115**.
102. WCAP-14081, Revision 0, Non-Proprietary, "AP600 Instrumentation and Control Software Architecture and Operation Description," June 27, 1994, Letter **DCP/NRC0120**.

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103. WCAP-14135, Revision 1, Proprietary, "Final Data Report for PCS Large-Scale Tests, Phase 2 and Phase 3," April 1997, Letter DCP/NRC0834.
104. WCAP-14138, Revision 1, Non-Proprietary, "Final Data Report for PCS Large-Scale Tests, Phase 2 and Phase 3," April 1997, Letter DCP/NRC0834.
105. WCAP-14150, Revision 0, Non-Proprietary, "VAPORE Facility Description Report, AP600 Automatic Depressurization System Phase A Test," August 1994, Letter DCP/NRC0196.
106. WCAP-14217, Revision 0, Proprietary, "Core Makeup Tank Test Analysis," MT01-T2R-100, November 1994, Letter DCP/NRC0250.
107. WCAP-14218, Revision 0, Non-Proprietary, "Core Makeup Tank Test Analysis," November 1994, Letter DCP/NRC0250.
108. WCAP-14234, Revision 1, Proprietary, "LOFTRAN & LOFTTR2 AP600 Code Applicability Document," June 1997, Letter DCP/NRC1001.
109. WCAP-14270, Revision 1, Proprietary, "Low Pressure Integral Systems Test Facility Scaling Report," August 1997, Letter DCP/NRC0266.
110. WCAP-14271, Revision 1, Non-Proprietary, "Low Pressure Integral Systems Test Facility Scaling Report," August 1997, Letter DCP/NRC0266.
111. WCAP-14325, Revision 0, Non-Proprietary, "Final Data Report for ADS Phase B1 Tests," September 1997, Letter DCP/NRC1001.
112. WCAP-14326, Revision 2, Proprietary, "Experimental Basis for the AP600 Containment Vessel Heat and Mass Transfer Correlations," PCS-GSR-007, April 3, 1998, Letter DCP/NRC1336.
113. WCAP-14327, Revision 2, Non-Proprietary, "Experimental Basis for the AP600 Containment Vessel Heat and Mass Transfer Correlations," April 3, 1998, Letter DCP/NRC1351.
114. WCAP-14382, Revision 0, Proprietary, "WGOthic Code Description and Validation," M. Kennedy, et al, May 1995, Letter DCP/NRC0350.
115. WCAP-14383, Revision 0, Non-Proprietary, "WGOthic Code Description and Validation," M. Kennedy, et al, May 1995, Letter DCP/NRC0350.
116. WCAP-14396, Revision 2, Non-Proprietary, "Man-in-the-Loop Test Plan Description," OCS-T5-001, January 27, 1997, Letter DCP/NRC0718.

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117. WCAP-14396, Revision 3, Non-Proprietary, "Man-in-the-Loop Test Plan Description," OCS-T5-001, November 2002, Letter DCP/NRC1542.
118. WCAP-14606, Revision 0, Non-Proprietary, "Westinghouse Setpoint Methodology for Protection Systems – AP600," PMS-JEP-002, April 1996, Letter DCP/NRC0503.
119. WCAP-14655, Revision 0, Non-Proprietary, "Designers Input to the Training of the Human Factors Engineering Verification and Validation Personnel," OCS-GEH-022, May 1, 1996, Letter DCP/NRC0514.
120. WCAP-14655, Revision 1, Non-Proprietary, "Designers Input to the Training of the Human Factors Engineering Verification and Validation Personnel," OCS-GEH-022, August 8, 1996, Letter DCP/NRC0585.
121. WCAP-14695, Revision 0, Non-Proprietary, "Description of the Westinghouse Operator Decision-Making Model and Function-Based Task Analysis Methodology," OCS-GJR-001, July 31, 1996, Letter DCP/NRC0585.
122. WCAP-14776, Revision 4, Proprietary, "WCOBRA/TRAC OSU Long-Term Cooling Final Validation Report," LTCT-GSR-003, March 1998, Letter DCP/NRC1341.
123. WCAP-14777, Revision 4, Non-Proprietary, "WCOBRA/TRAC OSU Long-Term Cooling Final Validation Report," March 1998, Letter DCP/NRC1364.
124. WCAP-14808, Revision 2, Non-Proprietary, "NOTRUMP Final Validation Report for AP600," PXS-GSR-200, June 1997, Letter DCP/NRC1015.
125. WCAP-14967, Revision 0, Non-Proprietary, "Assessment of Effects of WGOthic Solver Upgrade from Version 1.2 to 4.1," Proprietary, WCAP-14968 (non-Proprietary), September 1997, Letter DCP/NRC1101.
126. WCAP-14234, Revision 0, Proprietary, "LOFTRAN & LOFTTR2 AP600 Code Applicability Document," November 1994, Letter DCP/NRC0253.

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#### Letters from Westinghouse to NRC

1. DCP/NRC0885, "AP600 Design Changes to Address Post 72-Hour Actions," May 23, 1997
2. DCP/NRC0962, Letter from B. A. McIntyre, Westinghouse to T. Quay, NRC, "Responses to Comments on the AP600 Standard Safety Evaluation Report (SSAR) Chapter 15: Accident Analysis," July 18, 1997
3. DCP/NRC1247, "SSAR 6.2 Markup and Evaluation Model Changes," February 20, 1998
4. DCP/NRC1314, "Volumetric Froude Number for Various DBA," March 25, 1998
5. ET-NRC-93-3804, "Westinghouse Responses to NRC Requests for Additional Information on the AP600," January 22, 1993
6. NSD-NRC-96-4646, "Conservatism in Modeling of the PCS Film in the DBA Evaluation Model and Comparison of the Range of Film Parameters in the PCS Test Data with AP600," February 15, 1996
7. NSD-NRC-96-4763, "Assessment of Mixing and Stratification Effects on AP600 Containment," July 1, 1996
8. NSD-NRC-96-4908, "Westinghouse Responses to NRC Requests for Additional Information on the AP600," December 10, 1996
9. NSD-NRC-97-5152, "AP600 Design Changes to Address Post 72-Hour Actions," Attachment 2, "Description of method to account for circumferential (2-dimensional) conduction through the steel containment for containment pressure analyses," DCP/NRC0885, May 23, 1997.
10. NSD-NRC-97-5171, "Proprietary and Non-Proprietary Responses to Open Items with regard to Revision 1 to WCAP-14171, WCOBRA/TRAC Application to AP600 Large-Break LOCA," June 10, 1997.
11. NSD-NRC-97-5291, "Response to Request for Additional Information on Determination of Peak Cladding Temperature in Chapter 15.6.5 of AP600 SSAR," August 27, 1997.
12. NSD-NRC-97-5299, "Response for Additional Information and DSER Open Items – AP600 Passive Containment Cooling System," August 29, 1997
13. NSD-NRC-97-5332, "Additional Information – AP600 Large-Break LOCA WCOBRA/TRAC Methodology," September 18, 1997

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### Westinghouse Additions of AP600 Documents to the AP1000 Design Certification Docket 05200006

14. NSD-NRC-97-5492, "Presentation Material for December 9, 10, 11, and 12, 1997 ACRS Meeting," December 17, 1997
15. NTD-NRC-94-4286, "Supplemental Information on AP600 PCS Film Flow Coverage Methodology," August 31, 1994
16. NTD-NRC-95-4422, "Mass and Energy Tables for AP600 Large Scale Containment Test 220.1," March 27, 1995
17. NTD-NRC-95-4456, "Revised Mass and Energy Tables for the AP600 Large Scale Containment Test 220.1," March 27, 1995
18. NTD-NRC-95-4462, "EPRI Report RA-93-10, "Gothic Design Review, Final Report," May 15, 1995
19. NTD-NRC-95-4463, "PCS-T2R-050, Large-Scale Test Data Evaluation," May 15, 1995
20. NTD-NRC-95-4570, "Bases for AP600 PCS Mass Transfer Correlation Biases," September 28, 1995
21. NTD-NRC-95-4577, "W-GOTHIC S, Version 1.2 and EPRI Version of GOTHIC S Version 4.0 and W-GOTHIC S Models Not Used in Analysis of AP600," October 12, 1995.
22. NTD-NRC-95-4598, "Responses to RAIs on AP600 Design Certification Test Program, NOTRUMP Computer Code, WCOBRA/TRAC Computer Code, and LOFTRAN Computer Code," November 17, 1995
23. NTD-NSA-SAI-95-391, "Revisions to Westinghouse Best-Estimate Uncertainty Methodology," October 13, 1995
24. PCS-GSR-003, "A Method for Determining Film Flow Coverage for the AP600 Passive Containment Cooling System," July 22, 1994, Letter NTD-NRC-94-4286
25. PCS-T2C-059, "Analysis of AP600 Wind Tunnel Testing for PCS Heat Removal," May 1995, Letter DCP/NRC0336
26. ET-NSRA-93-056, May 28, 1993, Letter from N. J. Liparulo, Westinghouse to R. W. Borchardt, NRC, Subject: Responses to Requests for Additional Information on AP600
27. NSD-NRC-96-4874, December 16, 1996, Letter from Westinghouse to NRC, with Enclosure 1, Subject: AP600 Open Item Tracking System: Design Issues Tracking Item No. 4179, and Enclosures 2 and 3

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28. June 17, 1997, Letter from B. A. McIntyre, Westinghouse to T. R. Quay, NRC, Subject: Surveys of Operating Plant Fuel Leakage for Review Radwaste Systems – Request to Withhold Information from Public Disclosure, Letter **DCP/NRC0855**
29. June 23, 1998, Letter from B. A. McIntyre, Westinghouse to S. C. Black, NRC, Subject: Records Retention Plan in Accordance with RG 1.28, Letter **DCP/NRC1384**
30. October 13, 1998, Letter from H. A. Sepp, Westinghouse to T. E. Collins, NRC, Subject: Approved Process in WCAP-12488 Used for Design Modifications for 17x17 RFA with IFM Grid Design, Letter **NSD-NRC-98-5796**