

March 29, 2005

MEMORANDUM TO: File

FROM: Lauren Quinones-Navarro, Project Manager */RA/*
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: AP1000 DESIGN CERTIFICATION APPLICATION DOCUMENTS

The purpose of this memo is to identify AP600 documents used in the AP1000 review. By letter dated February 9, 2005 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML050560110), Westinghouse submitted a list of topical reports and letters that were previously submitted to the U.S. Nuclear Regulatory Commission (NRC) as part of the AP600 Design Certification review under Docket No. 05200003. These same documents have been used as a basis for the NRC's review of the AP1000 Design Certification application. Westinghouse requested that these documents be added to the AP1000 Design Certification Docket No. 05200006. Attached is a list of the documents with the ADAMS accession numbers.

The documents in the attached list are recorded as microfiche. In order to access the documents, contact the NRC Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr@nrc.gov.

Docket No. 52-006

Attachment:
ADAMS Accession Numbers for AP600 Documents

Contact: Lauren M. Quinones-Navarro
301-415-2007

ADAMS ACCESSION NUMBERS FOR AP600 DOCUMENTS

- 9605170345 - WCAP-14605 (P), WCAP-14606, "Westinghouse Setpoint Methodology for Protection Systems - AP600," April 1996. Letter DCP/NRC0503.
- 9606210004 - WCAP-13383, "AP600 Instrumentation and Control Hardware & Software Design, Verification & Validation Process Report," Rev 1. Letter DCP/NRC0526.
- 9205140179 - WCAP-13286, "AP600 Passive Core Cooling System Check Valve Test Final Report," (Proprietary), WCAP-13287 (Non-proprietary), April 1992. Letters SAL/NRC0023 and ET-NRC-92-3688.
- 9407010134 - WCAP-13891, "AP600 Automatic Depressurization System Phase A Test Data Report," (Proprietary), May 1994. Letter DCP/NRC0114.
- 9205130167 - WCAP-14095 (Nonproprietary).
- 9409120237 - WCAP-14134, "AP600 Passive Containment Cooling System Integral Small-Scale Tests Final Report," (Proprietary), WCAP-14137 (Non-proprietary), August 1994. Letter DCP/NRC0167.
- 9301280123 - WCAP-13566, "AP600 1/8th Large Scale Passive Containment Cooling System Heat Transfer Baseline Data Report," (Proprietary), WCAP-13567 (Non-proprietary), Revision 1, December 1992. Letter DCP/NRC0098.
- 9205140178 - WCAP-13294, "Phase I Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), April 1992. Letters SAL/NRC0023 and ET-NRC-92-3688.
- 9205130227 - WCAP-13295 (Non-proprietary).
- 9212010167 - WCAP-13323, "Phase II Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-13324 (Non-proprietary), August 1992.
- 9406130274 - WCAP-14068, "Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-14084 (Non-proprietary), May 1994. Letter DCP/NRC0096.
- 9409280227 - WCAP-14169, "Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor, Supplemental Report," (Proprietary), WCAP-14170 (Non-proprietary), September 1994. Letter DCP/NRC0212.
- 9408030146 - WCAP-14091, "Phase IVb Wind Tunnel Testing for the Westinghouse AP600 Reactor," (Proprietary), WCAP-14092 (Non-proprietary), July 1994. Letter DCP/NRC0132.

9705280198 - WCAP-12980, "AP600 Passive Residual Heat Removal Heat Exchanger Test Final Report," (Proprietary), Revision 3, April 1997. Letter DCP/NRC0850.

9705280205 - WCAP-13573 (Non-proprietary).

9506120356 - WCAP-14371, "AP600 Low Flow Critical Heat Flux (CHF) Test Data Analysis." (Proprietary), WCAP-14372 (Non-proprietary), May 1995. Letter DCP/NRC0332.

9811190156 - WCAP-14252, "AP600 Low Pressure 1/4 Height Integral Systems Tests - Final Data Report," (Proprietary), WCAP-14253 (Non-proprietary), Revision 1, November 1998. Letter DCP/NRC1446.

9709040006 - WCAP-14309, "AP600 Design Certification Program, SPES-2 Tests Final Data Report," (Proprietary), WCAP-14310 (Non-proprietary), Revision 2, May 1997. Letter DCP/NRC0935.

9205140170 - WCAP-12648, "AP600 Incore Instrumentation System Electromagnetic Interference Test Report," (Proprietary), Revision 1, April 1992. Letters SAL/NRC0023 and ET-NRC-92-3688.

9205140041 - WCAP-13322 (Non-proprietary).

9205140060 - WCAP-12668, "AP600 High Inertia Rotor Testing - Phase I, Test Report," (Proprietary), March 1990, Letters SAL/NRC0023 & ET-NRC-92-3688.

9205140046 - WCAP-13321 (Non-proprietary)

9205140136 - WCAP-13319, "AP600 High Inertia Rotor Testing - Phase 2 Report," (Proprietary), August 1991. Letters SAL/NRC0023 and ET-NRC-92-3688.

9205130276 - WCAP-13320 (Non-proprietary).

9711140115 - WCAP-14477, "The AP600 Adverse Systems Interactions Evaluation Report," Revision 2, November 1997. Letter DCP/NRC1111.

9209010163 - WCAP-13382 (P), WCAP-13391, "AP600 Instrumentation and Control Hardware Description," May 1992. Letters SAL/NRC0025 and ET-NRC-92-3735.

9407120348 - WCAP-14080 (P), "AP600 Instrumentation and Control Software Architecture and Operation Description," June 1994. Letter DCP/NRC0120.

9707140008 - WCAP-14690, "Designer's Input to Procedure Development for the AP600," Revision 1, June 1997. Letter DCP/NRC0932.

9708260230 - WCAP-14234, "LOFTRAN and LOFTTR2 AP600 Code Applicability Document," Revision 1, August 1997. Letter DCP/NRC1001.

9412020261 - WCAP-14206 (P), "Applicability of the NOTRUMP Computer Code to AP600 SSAR Small-Break LOCA Analyses," November 1994. Letter DCP/NRC0248.

9806220303 - WCAP-14601 (P), "AP600 Accident Analyses - Evaluation Models," Revision 2, June 1998. Letter DCP/NRC1376.

9809210144 - WCAP-14807, "NOTRUMP Final Validation Report for AP600," Revision 5, August 1998. Letter DCP/NRC1410.

9701130061 - WCAP-14645, "Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant," Revision 2, December 1996.

9610210277 - WCAP-14644, "AP600 Functional Requirements Analysis and Function Allocation," September 1996. Letter DCP/NRC0614.

9609030293 - WCAP-14694, "Designer's Input to Determination of the AP600 Main Control Room Staffing Level," July 1996. Letter DCP/NRC0585.

9407200336, 9407200338 - WCAP-13793, "The AP600 System/Event Matrix," June 1994. Letter DCP/NRC0119.

9305270259 - WCAP-13388 (P), WCAP-13389, "AP600 Phenomenological Evaluation Summaries," (Prop - Rev. 0, June 1992, Non-Prop - Rev. 1, 1994). Letter DCP/NRC0038.

9710210062 - WCAP-13914, Rev. 3, "Framework for AP600 Severe Accident Management Guidance." Letter DCP/NRC1080.

9804130419 - WCAP-14837, "AP600 Shutdown Evaluation Report," Revision 3, March 1998. Letter DCP/NRC14837.

9505100095 - WCAP-14324, Revision 0, Final Data Report for ADS Phase B1 Tests, April 1995. Letter DCP/NRC0296.

9803300265 - WCAP-14171, "WCOBRA/TRAC Applicability to AP600 Large-Break Loss-of-Coolant Accident," Revision 2, March 1998. Letter DCP/NRC1312.

9705280352 - WCAP-14651, "Integration of Human Reliability Analysis and Human Factors Engineering Design Implementation Plan," Revision 2, May 1997. Letter DCP/NRC0856.

9205140082 - 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 and ET-NRC-92-3688.

9205140022 - 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 and ET-NRC-92-3688.

9305190233 - 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.

9305190233 - 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.

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9205140034 - 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 and ET-NRC-92-3688.

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9205140017 - WCAP-13343, Revision 0, Non-Proprietary, "AP600 Automatic Depressurization System Test," January 1991. Letters SAL/NRC0023 and ET-NRC-92-3688.

9402160113 - WCAP-13957, Revision 0, Proprietary, "AP600 Reactor Coolant Mass Inventory: Function-Based Task Analysis," January 31, 1994.

9402160113 - WCAP-13958, Revision 0, Non-Proprietary, "AP600 Reactor Coolant Mass Inventory: Function-Based Task Analysis," January 31, 1994.

9505150266 - WCAP-14053, Revision 2, Proprietary, "AP600 FHFP Integral Systems Test Specification (SPES-2)," April 1995. Letter DCP/NRC0323.

9405120203 - WCAP-14056, Revision 2, Non-Proprietary, "AP600 FHFP Integral Systems Test Specification (SPES-2)," April 1995. Letter DCP/NRC0323.

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9412020261, 9412020264 - WCAP-14207, Revision 0, Non-Proprietary, "Applicability of the NOTRUMP Computer Code to AP600 SSAR Small Break LOCA Analyses," November 1994. Letter DCP/NRC0248.

9501190221 - WCAP-14215, Revision 0, Proprietary, "AP600 Core Makeup Tank Test Analysis," December 1994. Letter DCP/NRC0251.

9501190221 - WCAP-14216, Revision 0, Non-Proprietary, "AP600 Core Makeup Tank Test Analysis," December 1994. Letter DCP/NRC0251.

9709290167, 9709290174 - WCAP-14235, Revision 1, Non-Proprietary, "LOFTRAN & LOFTTR2 AP600 Code Applicability Document," June 1997. Letter DCP/NRC1052.

9504050132 - WCAP-14303, Revision 0, Proprietary, "Facility Description Report, AP600 Automatic Depressurization System Phase B1 Tests," March 1995. Letter DCP/NRC0291.

9504050132 - WCAP-14304, Revision 0, Non-Proprietary, "Facility Description Report, AP600 Automatic Depressurization System Phase B1 Tests," March 1995. Letter DCP/NRC0291.

9804140073 - WCAP-14305, Revision 3, Proprietary, "AP600 Test Program ADS Phase B1 Test Analysis Report," April 1998. Letter DCP/NRC1339.

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9805190170 - 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.

9805200326, 9805200323 - WCAP-14327, Revision 3, Non-Proprietary, "Experimental Basis for the AP600 Containment Vessel Heat and Mass Transfer Correlations," April 1998. Letter DCP/NRC1363.

9705280348, 9705280358 - WCAP-14401, Revision 3, Non-Proprietary, "Programmatic Level Description of the AP600 Verification and Validation Plan," April 1997. Letter DCP/NRC0856.

9805290217 - WCAP-14407, Revision 3, Proprietary, "WGOTHIC Application to AP600," J. Woodcock, et. al., April 1998. Letter DCP/NRC1355 and DCP/NRC1395.

9611270068 - WCAP-14408, Revision 0, Non-Proprietary, "WGOTHIC Application to AP600," J. Woodcock, et. al., October 1996. Letter DCP/NRC0837.

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9806220303 - WCAP-15062 (Typo: WCAP-15602), Revision 2, Non-Proprietary, "AP600 Accident Analysis, Evaluation Models," May 1998. Letter DCP/NRC1376.

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9610290089 - WCAP-14761, Revision 3, Proprietary, "AP600 Reactor Internals Flow-Induced Vibration Assessment Program," March 1996. Letter DCP/NRC0486.

9610290089 - WCAP-14762, Revision 3, Non-Proprietary, "AP600 Reactor Internals Flow-Induced Vibration Assessment Program," October 1996. Letter DCP/NRC0633.

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9804130487 - WCAP-14812, Revision 2, Proprietary, "Accident Specification and Phenomena Evaluation for the AP600 Passive Containment Cooling System," April 1998. Letter DCP/NRC1337.

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- 9805050029, 9805050039 - WCAP-14846, Revision 3, Non-Proprietary, "Scaling Analysis for AP600 Containment Pressure During Design-Basis Accidents," March 1998. Letter DCP/NRC1350.
- 9704220151 - 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.
- 9801230153 - WCAP-12600, Revision 4, "AP600 Advanced Light Water Reactor Design Quality Assurance Program Plan (QAPP)," January 26, 1998. Letter DCP/NRC1217.
- 9409260220, 9409260224 - WCAP-13234, Revision 2, Proprietary, "Test Specification for Long Term Cooling Test," PXS-T1P-001, August 1994. Letter DCP/NRC0189.
- 9409260224 - WCAP-13283, Revision 2, Non-Proprietary, "Test Specification for Long Term Cooling Test," August 1994. Letter DCP/NRC0189.
- 9205140167 - WCAP-13267, Revision 0 1, Proprietary, "Test Specification: Large-Scale Passive Containment Cooling Test," PCS-T1P-002, April 1992. Letters ET-NRC-92-3688 and SAL/NRC0023.
- 9205130161 - WCAP-13268, Revision 0 1, Non-Proprietary, "Test Specification: Large-Scale Passive Containment Cooling Test," April 1992. Letters ET-NRC-92-3688 and SAL/NRC0023.
- 9205140156 - WCAP-13290, Revision 0, Proprietary, Passive Containment Cooling System Water Distribution Test Specification, PCS-T1P-001, November 1990. Letters ET-NRC-92-3688 and SAL/NRC0023.
- 9205130214 - WCAP-13291, Revision 0, Non-Proprietary, Passive Containment Cooling System Water Distribution Test Specification, November 1990. Letters ET-NRC-92-3688 and SAL/NRC0023.
- 9205140056 - WCAP-13296, Revision 0, Proprietary, PCS Water Distribution Test Phase II Test Data Report," PCS-T2R-007, March 1992. Letters ET-NRC-92-3688 and SAL/NRC0023.
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- 9205130255 - WCAP-13308, Revision 0, Non-Proprietary, "Condensation in the Presence of a Noncondensable Gas: Experimental Investigation," April 1991. Letters ET-NRC-92-3688 and SAL/NRC0023.

- 9205140123 - WCAP-13353, Revision 0, Proprietary, "Passive Containment Cooling System Water Distribution, Phase 1 Test Data Report," PCS-T2R-008, April 9, 1992. Letters ET-NRC-92-3688 and SAL/NRC0023.
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- 9402170207 - WCAP-13961, Revision 0, Non-Proprietary, "PCS Water Distribution Phase 3 Test Data Report," December 1993. Letter DCP/NRC0002.
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- 9408030240 - WCAP-14073, Revision 0, Proprietary, "SPES-2 Facility Description," PXS-T3R-001, May 1994. Letter DCP/NRC0115.
- 9408030240 - WCAP-14074, Revision 0, Non-Proprietary, "SPES-2 Facility Description," May 1994. Letter DCP/NRC0115.
- 9407120349 - WCAP-14081, Revision 0, Non-Proprietary, "AP600 Instrumentation and Control Software Architecture and Operation Description," June 27, 1994. Letter DCP/NRC0120.
- 9705050112 - WCAP-14135, Revision 1, Proprietary, "Final Data Report for PCS Large-Scale Tests, Phase 2 and Phase 3," April 1997. Letter DCP/NRC0834.
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- 9409080250 - WCAP-14150, Revision 0, Non-Proprietary, "VAPORE Facility Description Report, AP600 Automatic Depressurization System Phase A Test," August 1994. Letter DCP/NRC0196.
- 9501060249 - WCAP-14217, Revision 0, Proprietary, "Core Makeup Tank Test Analysis," MT01-T2R-100, November 1994. Letter DCP/NRC0250.
- 9501060249 - WCAP-14218, Revision 0, Non-Proprietary, "Core Makeup Tank Test Analysis," November 1994. Letter DCP/NRC0250.
- 9708260230 - WCAP-14234, Revision 1, Proprietary, "LOFTRAN & LOFTTR2 AP600 Code Applicability Document," June 1997. Letter DCP/NRC1001.

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9605170345 - WCAP-14606, Revision 0, Non-Proprietary, "Westinghouse Setpoint Methodology for Protection Systems - AP600," PMS-JEP-002, April 1996. Letter DCP/NRC0503.

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- 9709050098 - WCAP-14808, Revision 2, Non-Proprietary, "NOTRUMP Final Validation Report for AP600," PXS-GSR-200, June 1997. Letter DCP/NRC1015.
- 9709160219 - 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.
- 9412090175 - WCAP-14234, Revision 0, Proprietary, "LOFTRAN & LOFTRAN2 AP600 Code Applicability Document," November 1994. Letter DCP/NRC0253.

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- 9706090268 - DCP/NRC0885, "AP600 Design Changes to Address Post 72-Hour Actions," May 23, 1997.
- 9707250026 - 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.
- 9802260243 - DCP/NRC1247, "SSAR 6.2 Markup and Evaluation Model Changes," February 20, 1998.
- 9804020399 - DCP/NRC1314, "Volumetric Froude Number for Various DBA," March 25, 1998.
- 9602230248, 9602230258 - 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.
- 9607080245, 9607080234 - NSD-NRC-96-4763, "Assessment of Mixing and Stratification Effects on AP600 Containment," July 1, 1996.
- 9706230035 - NSD-NRC-96-4908, "Westinghouse Responses to NRC Requests for Additional Information on the AP600," December 10, 1996.
- 9706090268 - 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.
- 9706170064 - 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.
- 9709040139 - 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.

- 970909020 - NSD-NRC-97-5299, "Response for Additional Information and DSER Open Items - AP600 Passive Containment Cooling System," August 29, 1997.
- 9709290040 - NSD-NRC-97-5332, "Additional Information - AP600 Large-Break LOCA WCOBRA/TRAC Methodology," September 18, 1997.
- 9801080315 - NSD-NRC-97-5492, "Presentation Material for December 9, 10, 11, and 12, 1997 ACRS Meeting," December 17, 1997.
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- 9612200152 - 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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Subject: Approved Process in WCAP-12488 Used for Design Modifications for
17x17 RFA with IFM Grid Design. Letter NSD-NRC-98-5796.

MEMORANDUM TO: File

FROM: Lauren Quinones-Navarro, Project Manager
New Reactors Section
New, Research and Test Reactors Program
Division of Regulatory Improvement Programs
Office of Nuclear Reactor Regulation

SUBJECT: AP1000 DESIGN CERTIFICATION APPLICATION DOCUMENTS

The purpose of this memo is to identify AP600 documents used in the AP1000 review. By letter dated February 9, 2005 (Agencywide Documents Access and Management System (ADAMS) Accession No. ML050560110), Westinghouse submitted a list of topical reports and letters that were previously submitted to the U.S. Nuclear Regulatory Commission (NRC) as part of the AP600 Design Certification review under Docket No. 05200003. These same documents have been used as a basis for the NRC's review of the AP1000 Design Certification application. Westinghouse requested that these documents be added to the AP1000 Design Certification Docket No. 05200006. Attached is a list of the documents with the ADAMS accession numbers.

The documents in the attached list are recorded as microfiche. In order to access the documents, contact the NRC Public Document Room (PDR) reference staff at 1-800-397-4209, 301-415-4737, or by e-mail to pdr@nrc.gov.

Docket No. 52-006

Attachment:
ADAMS Accession Numbers for AP600 Documents

Contact: Lauren M. Quinones-Navarro
301-415-2007

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