

1.6 Material Referenced

The AP600 Design Control Document references various Westinghouse technical support documents; these documents are listed by DCD section in Table 1.6-1 (Sheets 1 through 18).

Table 1.6-1 (Sheet 1 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
1.5	WCAP-14217 (P) WCAP-14218	Core Makeup Tank Final Data Report, November 1994
	WCAP-13286 (P) WCAP-13287	AP600 Passive Core Cooling System Check Valve Test Final Report, April 1992
	WCAP-13891 (P) WCAP-14095	AP600 Automatic Depressurization System Phase A Test Data Report, May 1994
	WCAP-14324 (P) WCAP-14325	Final Data Report for ADS Phase B1 Tests, April 1995
	WCAP-14134 (P) WCAP-14137	AP600 Passive Containment Cooling System Integral Small-Scale Tests Final Report, August 1994
	WCAP-13566 (P) WCAP-13567	AP600 1/8th Large Scale Passive Containment Cooling System Heat Transfer Baseline Data Report, Revision 1, December 1992
	WCAP-14135 (P) WCAP-14138	Final Test Report for PCS Large Scale Phase 2 and Phase 3 Tests, Revision 3, November 1998
	WCAP-13353 (P) WCAP-13354	Passive Containment Cooling System Water Distribution Phase 1 Test Data Report, April 1992
	WCAP-13296 (P) WCAP-13297	PCS Water Distribution Test Phase II Test Data Report, March 1992
	WCAP-13960 (P) WCAP-13961	PCS Water Distribution Phase 3 Test Data Report, December 1993
	WCAP-13294 (P) WCAP-13295	Phase I Wind Tunnel Testing for the Westinghouse AP600 Reactor, April 1992
	WCAP-13323 (P) WCAP-13324	Phase II Wind Tunnel Testing for the Westinghouse AP600 Reactor, August 1992
	WCAP-14068 (P) WCAP-14084	Phase IV Wind Tunnel Testing for the Westinghouse AP600 Reactor, May 1994

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Table 1.6-1 (Sheet 2 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
1.5	WCAP-14169 (P) WCAP-14170	Phase IVa Wind Tunnel Testing for the Westinghouse AP600 Reactor, Supplemental Report, September 1994
	WCAP-14091 (P) WCAP-14092	Phase IVb Wind Tunnel Testing for the Westinghouse AP600 Reactor, July 1994
	WCAP-12980 (P) WCAP-13573	AP600 Passive Residual Heat Removal Heat Exchanger Test Final Report, Revision 3, April 1997
	WCAP-14371 (P) WCAP-14372	AP600 Low Flow Critical Heat Flux (CHF) Test Data Analysis, May 1995
	WCAP-14252 (P) WCAP-14253	AP600 Low Pressure 1/4 Height Integral Systems Tests - Final Data Report, Revision 1, November 1998
	WCAP-14309 (P) WCAP-14310	AP600 Design Certification Program, SPES-2 Tests Final Data Report, Revision 2, May 1997
	WCAP-12648 (P) WCAP-13322	AP600 Incore Instrumentation System Electromagnetic Interference Test Report, Revision 1, April 1992
	WCAP-13298 (P) WCAP-13299	RCP Air Model Test Report, August 1991
	WCAP-12668 (P) WCAP-13321	AP600 High Inertia Rotor Testing - Phase I, Test Report, March 1990
	WCAP-13319 (P) WCAP-13320	AP600 High Inertia Rotor Testing - Phase 2 Report, August 1991
	WCAP-13758 (P) WCAP-13759	High Inertia Rotor Test - Phase 3 Report, June 1993
1.9	WCAP-13856	AP600 Implementation of the Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
	WCAP-14425	Evaluation of the AP600 Conformance to Inter-System Loss-of-Coolant Accident Acceptance Criteria, July 1995
	WCAP-13054	AP600 Compliance with SRP Acceptance Criteria, Revision 3, March 1998
	WCAP-13559	Operational Assessment for AP600, Revision 2, March 1998

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Table 1.6-1 (Sheet 3 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
1.A	WCAP-8324-A	Control of Delta Ferrite in Austenitic Stainless Steel Weldments, June 1974
	WCAP-8693	Delta Ferrite in Production Austenitic Stainless Steel Weldments, January 1976
	WCAP-8577	The Application of Pre-Heat Temperature After Welding of Pressure Vessel Steels, September 1975
	WCAP-8218	Fuel Densification Experimental Results and Model for Reactor Applications, March 1975
3.3	WCAP-13323 (P) WCAP-13324	Phase II Wind Tunnel Testing for the Westinghouse AP600 Reactor, August 1992
	WCAP-14068 (P) WCAP-14084	Phase IVA Wind Tunnel Testing for the Westinghouse AP600 Reactor, May 1994
	WCAP-14169 (P) WCAP-14170	Phase IVA Wind Tunnel Testing for the Westinghouse AP600 Reactor, Supplemental Report, September 1994
3.5	WCAP-13856	AP600 Implementation of the Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
3.6	WCAP-8077	Ice Condenser Containment Pressure Transient Analysis Methods, March 1977
	WCAP-8708 (P) WCAP-8709-A	MULTIFLEX A FORTRAN-IV Computer Program for Analyzing Thermal-Hydraulic-Structure System Dynamics, February 1976
	WCAP-8252	Documentation of Selected Westinghouse Structural Analysis Computer Codes, Revision 1, May 1977
3.7	WCAP 7921-AR	Damping Values of Nuclear Power Plant Components, May 1974
	WCAP-9903	Justification of the Westinghouse Equivalent Static Analysis Method for Seismic Qualification of Nuclear Power Plant Auxiliary Mechanical Equipment, August 1980

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Table 1.6-1 (Sheet 4 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
3.8	WCAP-13891	AP600 Automatic Depressurization System Phase A Test Data Report, May 1994
	WCAP-14324	Final Data Report for ADS Phase B1 Tests, April 1995
3.9	WCAP-7765-AR	Westinghouse PWR Internals Vibrations Summary Three-Loop Internals Assurance, November 1973
	WCAP-8766 (P) WCAP-8780	Verification of Neutron Pad and 17x17 Guide Tube Designs by Preoperational Tests on the Trojan 1 Power Plant, May 1976
	WCAP-8516-P (P) WCAP-8517	UHI Plant Internals Vibrations Measurement Program and Pre- and Post-Hot Functional Examinations, March 1975
	WCAP-10846 (P)	Doel 4 Reactor Internals Flow-Induced Vibration Measurement Program, March 1985
	WCAP-10865 (P) WCAP-10866	South Texas Plant (TGX) Reactor Internals Flow-Induced Vibration Assessment, February 1985
	WCAP-8708-P-A (P) Volumes 1 and 2 WCAP-8709-A Volumes 1 and 2	MULTIFLEX A FORTRAN-IV Computer Program for Analyzing Thermal-Hydraulic-Structure System Dynamics, February 1976
	WCAP-8446 (P) WCAP-8449	17x17 Drive Line Components Tests - Phase 1B 11, 111 D-Loop Drop and Deflection, December 1974
	WCAP-13856	AP600 Implementation of Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
	WCAP-9693 (P)	Investigation of Feedwater Line Cracking in Pressurized Water Reactor Plants, June 1980
	WCAP-14761	AP600 Reactor Internals Flow-Induced Vibration Assessment Program, March 1996
WCAP-8236(P) WCAP-8238	Safety Analysis of the 17x17 Fuel Assembly for Combined Seismic and Loss-of-Coolant Accident, December 1973	

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Table 1.6-1 (Sheet 5 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
4.1	WCAP-10444-A (P) WCAP-10445-NP-A	VANTAGE 5H Fuel Assembly, Addendum 2A, February 1989
	WCAP-12610-P-A (P) WCAP-14342-P-A	VANTAGE+ Fuel Assembly Reference Core Report, April 1995
	[WCAP-12488-A (P) [WCAP-14204-A]*	<i>Fuel Criteria Evaluation Process, October 1994]*</i>
4.2	[WCAP-12488-A (P) [WCAP-14204-A]*	<i>Fuel Criteria Evaluation Process, October 1994]*</i>
	WCAP-10125-P-A (P) WCAP-10126-NP-A	Extended Burnup Evaluation of Westinghouse Fuel, December 1985
	WCAP-8183	Operational Experience with Westinghouse Cores (Revised Annually)
	WCAP-9179 (P) WCAP-9224	Properties of Fuel and Core Component Materials, July 1978
	WCAP-12610-P-A (P) WCAP-14342-A	VANTAGE+ Fuel Assembly Reference Core Report, April 1995
	WCAP-8218-P-A (P) WCAP-8219-A	Fuel Densification Experimental Results and Model for Reactor Application, March 1975
	WCAP-10851-P-A (P) WCAP-11873-A	Improved Fuel Performance Models for Westinghouse Fuel Rod Design and Safety Evaluations, August 1988
	WCAP-13589-A (P) WCAP-14297-A	Assessment of Clad Flattening and Densification Power Spike Factor Elimination in Westinghouse Nuclear Fuel, March 1995
	WCAP-8963-P-A (P) WCAP-8964-A	Safety Analysis for the Revised Fuel Rod Internal Pressure Design Basis, August 1977
	WCAP-10021-P-A (P) WCAP-10377-NP-A	Westinghouse Wet Annular Burnable Absorber Evaluation Report, Revision 1, October 1983
	WCAP-10444-P-A (P) WCAP-10445-NP-A	Reference Core Report VANTAGE 5 Fuel Assembly, September 1985
	WCAP-8278 (P) WCAP-8279	Hydraulic Flow Test of the 17x17 Fuel Assembly, February 1974

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Table 1.6-1 (Sheet 6 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
4.2	WCAP-8691	Fuel Rod Bow Evaluation, Revision 1, July 1979
	WCAP-9500-P-A (P) WCAP-9500-A	Reference Core Report 17x17 Optimized Fuel Assembly, May 1982
	WCAP-8236 (P) WCAP-8288	Safety Analysis of the 17x17 Fuel Assembly for Combined Seismic and Loss-of-Coolant Accident, December 1973
	WCAP-9401-P-A (P) WCAP-9402-A	Verification, Testing, and Analysis of the 17x17 Optimized Fuel Assembly, August 1981
	WCAP-9283	Integrity of Primary Piping Systems of Westinghouse Nuclear Power Plants During Postulated Seismic Events, March 1978
4.3	WCAP-9272-P-A	Westinghouse Reload Safety Evaluation Methodology, July 1985
	[WCAP-12488-P-A (P) WCAP-14204-A]*	<i>Fuel Criteria Evaluation Process, October 1994</i> *
	WCAP-12472-P-A (P) WCAP-12473-P-A	BEACON: Core Monitoring and Operations Support System, August 1994 and Addendum 1, May 1996
	WCAP-8330	Westinghouse Anticipated Transients Without Reactor Trip Analysis, August 1974
	WCAP-11992	Joint Westinghouse Owners Group/Westinghouse Program: ATWS Rule Administration Process, December 1988
	WCAP-7308-L-P-A (P) WCAP-7308-L-A	Evaluation of Nuclear Hot Channel Factor Uncertainties, June 1988
	WCAP-8218-P-A (P) WCAP-8219-A	Fuel Densification Experimental Results and Model for Reactor Application, March 1975
	WCAP-8359	Effects of Fuel Densification Power Spikes on Clad Thermal Transients, July 1974
	WCAP-7811	Power Distribution Control of Westinghouse Pressurized Water Reactors, December 1971
	WCAP-8385 (P) WCAP-8403	Power Distribution Control and Load Following Procedures, September 1974

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Table 1.6-1 (Sheet 7 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
4.3	WCAP-10216-P-A (P) WCAP-10217-A	Relaxation of Constant Axial Offset Control, F _Q Surveillance Technical Specification, Revision 1A, February 1994
	WCAP-7912-P-A (P) WCAP-7912-A	Power Peaking Factors, January 1975
	WCAP-8498	Incore Power Distribution Determination in Westinghouse Pressurized Water Reactors, July 1975
	WCAP-9217	Results of Control Rod Worth Program, October 1977
	WCAP-3696-8	Pressurized Water Reactor pH - Reactivity Effect Final Report, October 1968
	WCAP-3680-20	Xenon-Induced Spatial Instabilities in Large Pressurized Water Reactors, March 1968
	WCAP-3680-21	Control Procedures for Xenon-Induced X-Y Instabilities in Large Pressurized Water Reactors, February 1969
	WCAP-3680-22	Xenon-Induced Spatial Instabilities in Three Dimensions, September 1969
	WCAP-7964	Axial Xenon Transient Tests at the Rochester Gas and Electric Reactor, June 1971
	WCAP-7084-P-A (P)	The PANDA Code, February 1975
	WCAP-7213-A (P) WCAP-7758-A	The TURTLE 24.0 Diffusion Depletion Code, February 1975
	WCAP-8768	Safety-Related Research and Development for Westinghouse Pressurized Water Reactors, Program Summaries - Winter 1977 - Summer 1978, Revision 2, October 1978
	WCAP-6073	LASER - A Depletion Program for Lattice Calculations Based on MUFT and THERMOS, April 1966
	WCAP-2048	The Doppler Effect for a Non-Uniform Temperature Distribution in Reactor Fuel Elements, July 1962

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Table 1.6-1 (Sheet 8 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
4.3	WCAP-11596-P-A (P)	Qualification of the PHOENIX-P/ANC Nuclear Design System for Pressurized Water Reactor Cores, June 1988
	WCAP-10841 (P) WCAP-10842	Qualification of the PHOENIX/POLCA Nuclear Design and Analysis Program for Boiling Water Reactors, June 1985
	WCAP-7806	Nuclear Design of Westinghouse Pressurized Water Reactors with Burnable Poison Rods, December 1971
	WCAP-3385-56 Part II	Saxton Core II Fuel Performance Evaluation Part II: Evaluation of Mass Spectrometric and Radiochemical Analysis of Irradiated Saxton Plutonium Fuel, July 1971
	WCAP-3385-56 Part I	Saxton Core II - Fuel Performance Evaluation Part I: Materials, September 1971
	WCAP-3385-36	Saxton Plutonium Project - Quarterly Progress Report for the Period Ending June 20, 1973, July 1973
	WCAP-3385-37	Saxton Plutonium Project - Quarterly Progress Report for the Period Ending September 30, 1973, December 1973
	WCAP-3017-6094	Yankee Core Evaluation Program Final Report, January 1971
	WCAP-6086	Supplementary Report on Evaluation of Mass Spectrometric and Radiochemical Analyses of Yankee Core I Spent Fuel, Including Isotopes of Elements Thorium through Curium, August 1969
	WCAP-3269-26	LEOPARD - A Spectrum Dependent Non-Spatial Depletion Code for the IBM-7094, September 1963
	WCAP-10965-P-A (P)	ANC: Westinghouse Advanced Nodal Computer Code, September 1986
	WCAP-3726-1	PuO ₂ -UO ₂ Fueled Critical Experiments, July 1967
	WCAP-13589-A (P) WCAP-14297-A	Assessment of Clad Flattening and Densification Power Spike Factor Elimination in Westinghouse Nuclear Fuel, March 1995
	WCAP-13524 (P)	APOLLO - A One Dimensional Neutron Theory Program, Revision 1, August 1994

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Table 1.6-1 (Sheet 9 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
4.4	WCAP-11397-P-A	Revised Thermal Design Procedure, April 1989
	WCAP-6065	Melting Point of Irradiated UO ₂ , February 1965
	WCAP-10444-P-A	Reference Core Report VANTAGE 5 Fuel Assembly, September 1985
	WCAP-9226-P WCAP-9227-NP	Reactor Core Response to Excessive Secondary Steam Releases, January 1989
	WCAP-7695-L	DNB Test Results for R-Grid Thimble Cold Wall Cells, Addendum 1, October 1972
	[WCAP-12488-A	<i>Westinghouse Fuel Criteria Evaluation Process, October 1994</i>]*
	WCAP-7015	Subchannel Thermal Analysis of Rod Bundle Cores, Revision 1, January 1969
	WCAP-7941-P-A WCAP-7959-A	Effect of Axial Spacing on Interchannel Thermal Mixing with the R Mixing Vane Grid, January 1975
	WCAP-8298-P-A (P) WCAP-8290-A	The Effect of 17x17 Fuel Assembly Geometry on Interchannel Thermal Mixing, January 1975
	WCAP-8174 (P) WCAP-8202-A	Effect of Local Heat Flux Spikes on DNB in Non Uniform Heated Rod Bundles, August 1973
	WCAP-7667-P-A (P) WCAP-7755-A	Interchannel Thermal Mixing with Mixing Vane Grids, January 1975
	WCAP-8691	Fuel Rod Bow Evaluation, Revision 1, July 1979
	WCAP-8054-P-A (P) WCAP-8195-A	Applications of THINC-IV Program to PWR Design, October 1973
	WCAP-7956-P-A	THINC-IV, An Improved Program for Thermal- Hydraulic Analysis of Rod Bundle Cores, February 1989
	WCAP-2923	In-Pile Measurement of UO ₂ Thermal Conductivity, March 1966
	WCAP-10851-P-A	Improved Fuel Performance Models for Westinghouse Fuel Rod Design and Safety Evaluations, August 1988
	WCAP-8720 Addendum 2	Revised PAD Code Thermal Safety Model, October 1982

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*NRC Staff approval is required prior to implementing a change in this material; see DCD Introduction Section 3.5.

Table 1.6-1 (Sheet 10 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title	
4.4	WCAP-6069	Burnup Physics of Heterogeneous Reactor Lattices, June 1965	
	WCAP-3385-56 Part II	Saxton Core II Fuel Performance Evaluation: Evaluation of Mass Spectrometric and Radiochemical Analyses of Irradiated Saxton Plutonium Fuel, July 1970	
	WCAP-2850 (P) WCAP-7916	Single-Phase Local Boiling and Bulk Boiling Pressure Drop Correlations, June 1972	
	WCAP-7912-P-A (P) WCAP-7912-A	Power Peaking Factors, January 1975	
	WCAP-12330-P-A	Improved THINC-IV Modeling for PWR Core Design, August 1989	
	WCAP-8453-A	Analysis of Data from the Zion (Unit 1) THINC Verification Test, May 1976	
	WCAP-14371	AP600 Low Flow Critical Heat Flux (CHF) Test Data Analysis, May 1995	
	WCAP-10951-P-A	WESTAR: An Advanced Three Dimensional Program for Thermal-Hydraulic Analysis of Light Water Reactors. June 1988	
	5.2	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
		WCAP-9292	Dynamic Fracture Toughness of ASME SA-508 Class 2a and ASME SA-533 Grade A Class 2 Base and Heat-Affected Zone Material and Applicable Weld Metals, March 1978
WCAP-7477-L (P) WCAP-7735		Sensitized Stainless Steel in Westinghouse PWR Nuclear Steam Supply Systems, March 1970	
WCAP-8324-A		Control of Delta Ferrite in Austenitic Stainless Steel Weldments, June 1975	
WCAP-8693		Delta Ferrite in Production Austenitic Stainless Steel Weldments, January 1976	
	WCAP-14837	AP600 Shutdown Evaluation Report, Revision 3, March 1998	

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Table 1.6-1 (Sheet 11 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
5.4	WCAP-14837	AP600 Shutdown Evaluation Report, Revision 3, March 1998
6.2	WCAP-8077 (P) WCAP-8078	Ice Condenser Containment Pressure Transient Analysis Methods, March 1973
	WCAP-8264-P-A (P) WCAP-8312-A	Westinghouse Mass and Energy Release Data for Containment Design, June 1975
	WCAP-10325 (P)	Westinghouse LOCA Mass and Energy Release Model for Containment Design - March 1979 Version, May 1983
	WCAP-8822 (P) WCAP-8860	Mass and Energy Releases Following A Steam Line Rupture, September 1976
	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, June 1984
	WCAP-14234	LOFTRAN and LOFTTR2 AP600 Code Applicability Document, Revision 1, August 1997
	WCAP-12945-P (P)	Code Qualification Document for Best Estimate Analysis, Revision 1, March 1998
6.3	WCAP-14407 (P) WCAP-14408	WGOTHIC Application to AP600, Revision 3, April 1998
	WCAP-14601	AP600 Accident Analyses Evaluation Models, Revision 2, June 1998
	WCAP-8966	Evaluation of Mispositioned ECCS Valves, September 1977
6A	WCAP-13662	FMEA of Advanced Passive Plant, Revision 1, June 1998
	WCAP-14837	AP600 Shutdown Evaluation Report, Revision 3, March 1998
6A	WCAP-14407 (P) WCAP-14408	WGOTHIC Application to AP600, Revision 3, April 1998
	WCAP-14135 (P) WCAP-14138	Final Data Report for Passive Containment Cooling System Large Scale Test, Phase 2 and Phase 3, Revision 3, November 1998

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MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
7.1	WCAP-13382 (P) WCAP-13391 [WCAP-13383	AP600 Instrumentation and Control Hardware Description, May 1992 <i>AP600 Instrumentation and Control Hardware and Software Design, Verification, and Validation Process Report, Revision 1, June 1996]*</i>
	WCAP-8897 (P) WCAP-8898 [WCAP-14605 (P) WCAP-14606	Bypass Logic for the Westinghouse Integrated Protection System, Addendum 2, February 1994 <i>Westinghouse Setpoint Methodology for Protection Systems - AP600, April 1996]*</i>
	WCAP-14080 (P) WCAP-14081 WCAP-11340 (P)	AP600 Instrumentation and Control Software Architecture and Operation Description, June 1994 Noise, Fault, Surge, and Radio Frequency Interference Test Report, November 1986
	WCAP-13633 (P) WCAP-13634	AP600 Instrumentation and Control Defense-in-Depth and Diversity Report, April 1993
7.2	WCAP-13662	FMEA of Advanced Passive Plant Protection System, Revision 1, June 1998
8.3	WCAP-13856	AP600 Implementation of the Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
10.2	WCAP-11525	Probabilistic Evaluation of Reduction in Turbine Valve Test Frequency, June 1987
13.7	WCAP-14690 WCAP-14837	Designer's Input to Procedure Development for the AP600, Revision 1, June 1997 AP600 Shutdown Evaluation Report, Revision 3, March 1998
14.3	WCAP-13856	AP600 Implementation of the Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
15.0	WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989

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*NRC Staff approval is required prior to implementing a change in this material; see DCD Introduction Section 3.5.

Table 1.6-1 (Sheet 13 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title	
15.0	WCAP-10054-P-A (P) WCAP-10081	Westinghouse Small Break ECCS Evaluation Model Using the NOTRUMP Code, August 1985	
	WCAP-12945 (P)	Code Qualification Document for Best Estimate LOCA Analysis, Revision 1, March 1998	
	WCAP-7908 (P) WCAP-7337	FACTRAN - A FORTRAN-IV Code for Thermal Transients in a UO ₂ Fuel Rod, June 1972	
	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984	
	WCAP-7979-P-A (P) WCAP-8028-A	TWINKLE - A Multi-Dimensional Neutron Kinetics Computer Code, January 1975	
	WCAP-10698-P-A (P) WCAP-10750-A	SGTR Analysis Methodology to Determine the Margin to Steam Generator Overfill, August 1985	
	WCAP-14234	LOFTRAN and LOFTTR2 AP600 Code Applicability Document, Revision 1, August 1997	
	WCAP-14477	The AP600 Adverse System Interactions Evaluation Report, Revision 2, November 1997	
	15.1	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
		WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989
WCAP-9226 (P) WCAP-9227		Reactor Core Response to Excessive Secondary Steam Releases, January 1978	
WCAP-7908 (P) WCAP-7337		FACTRAN - A FORTRAN-IV Code for Thermal Transients in a UO ₂ Fuel Rod, June 1975	
WCAP-14234		LOFTRAN and LOFTTR2 AP600 Code Applicability Document, Revision 1, August 1997	
15.2	WCAP-7769	Overpressure Protection for Westinghouse Pressurized Water Reactors, Revision 1, June 1972	

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MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
15.2	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
	WCAP-9230 (P) WCAP-9231	Report on the Consequences of a Postulated Main Feedline Rupture, January 1978
	WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989
	WCAP-14234	LOFTRAN and LOFTTR2 AP600 Code Applicability Document, Revision 1, August 1997
15.3	WCAP-7908 (P) WCAP-7337	FACTRAN - A FORTRAN-IV Code for Thermal Transients in a UO ₂ Fuel Rod, June 1975
	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
	WCAP-8424	An Evaluation of Loss of Flow Accidents Caused by Power System Frequency Transients in Westinghouse PWRs, Revision 1, May 1975
15.4	WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989
	WCAP-7979-P-A (P) WCAP-8028-A	TWINKLE - A Multi-Dimensional Neutron Kinetics Computer Code, January 1975
	WCAP-7908 (P) WCAP-7337	FACTRAN - A FORTRAN-IV Code for Thermal Transients in a UO ₂ Fuel Rod, June 1972
	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
	WCAP-7588	An Evaluation of the Rod Ejection Accident in Westinghouse Pressurized Water Reactors Using Spatial Kinetics Methods, Revision 1A, January 1975
	WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989
	WCAP-7213-P-A (P) WCAP-7758-A	The TURTLE 24.0 Diffusion Depletion Code, February 1975
	WCAP-10965-P-A	Westinghouse Advanced Nodal Computer Code, September 1980

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Table 1.6-1 (Sheet 15 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
15.5	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
15.6	WCAP-10924-P-A (P)	Westinghouse Large Break Best Estimate Methodology, Volume 1 Model Description and Validation, Volume 2, Revision 2, Application to Two-Loop PWRs Equipped with Upper Plenum Injection, December 1988
	WCAP-12945-P (P)	Code Qualification Document for Best Estimate Analysis, Revision 1, March 1998
	WCAP-10924-P	Westinghouse Large Break LOCA Best Estimate Methodology, Volume 2, Addendum 3, Upper Plenum Injection Model Improvement, April 1991
	WCAP-10079-P-A (P) WCAP-10080-A	NOTRUMP – A Nodal Transient Small Break and General Network Code, August 1985
15.6	WCAP-10054-P-A (P) WCAP-10081-A	Westinghouse Small Break ECCS Evaluation Model Using the NOTRUMP Code, August 1985
	WCAP-7907-P-A (P) WCAP-7907-A	LOFTRAN Code Description, April 1984
	WCAP-7908 (P) WCAP-7337	FACTRAN - A FORTRAN-IV Code for Thermal Transients in a UO ₂ Fuel Rod, June 1975
	WCAP-11397-P-A (P) WCAP-11398-A	Revised Thermal Design Procedure, April 1989
	WCAP-10698-P-A (P) WCAP-10750-A	SGTR Analysis Methodology to Determine the Margin to Steam Generator Overfill, August 1987
	WCAP-14206 (P)	Applicability of the NOTRUMP Computer Code to AP600 SSAR Small-Break LOCA Analyses, November 1994
	WCAP-14601 (P)	AP600 Accident Analyses – Evaluation Models, Revision 2, June 1998
	WCAP-14234	LOFTRAN and LOFTTR2 AP600 Code Applicability Document, Revision 1, August 1997
	WCAP-14171	WCOBRA/TRAC Applicability to AP600 Large-Break Loss-of-Coolant Accident, Revision 2, March 1998

(P) Denotes Document is Proprietary

Table 1.6-1 (Sheet 16 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
15.6	WCAP-14807	NOTRUMP Final Validation Report for AP600, Revision 5, August 1998
	WCAP-14776	WCOBRA/TRAC OSU Long-Term Cooling Final Validation Report, Revision 4, April 1998
15.7	WCAP-7828	Radiological Consequences of a Fuel Handling Accident, December 1971
16.1	WCAP-9272-P-A	Westinghouse Reload Safety Evaluation Methodology, July 1985
	WCAP-8385	Power Distribution Control and Load Following Procedures, September 1974
	WCAP-10216-P-A	Relaxation of Constant Axial Offset Control F_Q Surveillance Technical Specifications, Revision 1A, February 1994
	WCAP-12945-P-A	Code Qualification Document for Best Estimate Analysis, Revision 1, March 1998
	WCAP-14807	NOTRUMP Final Validation Report for AP600, Revision 5, August 1998
	WCAP-12474-P-A	BEACON Core Monitoring and Operations Support System, August 1994, and Addendum 1, May 1996
	WCAP-8746-A	Design Basis for the Overtemperature ΔT and the Overpower ΔT Trips, March 1977
	WCAP-9273-NP-A	Westinghouse Reload Safety Evaluation Methodology, July 1985
	WCAP-8403	Power Distribution Control and Load Following Procedures, July 1985
	WCAP-14606	Westinghouse Setpoint Methodology for Protection Systems, April 1996
	WCAP-10271-P-A (P)	Evaluation of Surveillance Frequencies and Out of Service Times for the Reactor Protection Instrumentation System, May 1986
	WCAP-7924-A	Basis for Heatup and Cooldown Limit Curves, April 1975

(P) Denotes Document is Proprietary

Table 1.6-1 (Sheet 17 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
16.1	WCAP-7769	Topical Report on Overpressure Protection, October 1971
	WCAP-14837	AP600 Shutdown Evaluation Report, Revision 3, March 1998
	WCAP-14800	AP600 PRA Thermal/Hydraulic Uncertainty Evaluation for Passive System Reliability, June 1997
17.6	WCAP-8370	Energy Systems Business Unit - Nuclear Fuel Business Unit Quality Assurance Plan, Revision 12a
	WCAP-8370/7800	Energy Systems Business Unit - Power Generation Business Unit Quality Assurance Plan, Revision 11A/7A
	WCAP-12600	AP600 Advanced Light Water Reactor Design Quality Assurance Program Plan, Revision 4, January 1998
	WCAP-13856	AP600 Implementation of the Regulatory Treatment of Nonsafety-Related Systems Process, Revision 1, January 1998
18.1	WCAP-14645	Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant, Revision 2, December 1996
	WCAP-14644	AP600 Functional Requirements Analysis and Function Allocation, September 1996
	WCAP-14694	Designer's Input to Determination of the AP600 Main Control Room Staffing Level, July 1996
	[WCAP-14651	<i>Integration of Human Reliability Analysis with Human Factors Engineering Design Implementation Plan, Revision 2, May 1997]*</i>
	WCAP-14690	Designer's Input to Procedure Development for the AP600, Revision 1, June 1997
	WCAP-14655	Designer's Input to the Training of the Human Factors Engineering Verification and Validation Personnel, Revision 1, August 1996
18.1	[WCAP-14401	<i>Programmatic Level Description of the AP600 Human Factors Verification of Validation Plan, Revision 3, April 1997]*</i>

*NRC Staff approval is required prior to implementing a change in this information; see DCD Introduction Section 3.5.

Table 1.6-1 (Sheet 18 of 19)

MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
18.2	WCAP-14645	Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant, Revision 2, December 1996
	WCAP-14694	Designer's Input to Determination of the AP600 Main Control Room Staffing Level, July 1996
	[WCAP-14822	<i>AP600 Quality Assurance Procedures Supporting NRC Review of AP600 SSAR Sections 18.2 and 18.8, February 1997]*</i>
	WCAP-14644	AP600 Functional Requirements Analysis and Function Allocation, September 1996
18.3	WCAP-14645	Human Factors Engineering Operating Experience Review Report for the AP600 Nuclear Power Plant, Revision 2, December 1996
18.4	WCAP-14644	AP600 Functional Requirements Analysis and Function Allocation, September 1996
18.5	WCAP-10170	Emergency Response Facilities Design and V&V Process, April 1982
	[WCAP-14695	<i>Description of the Westinghouse Operator Decision Making Model and Function Based Task Analysis Methodology, July 1996]*</i>
	[WCAP-14651	<i>Integration of Human Reliability Analysis and Human Factors Engineering Design Implementation Plan, Revision 2, May 1997]*</i>
	[WCAP-14396	<i>Man-in-the-Loop Test Plan Description, Revision 2, January 1997]*</i>
18.6	WCAP-14694	Designer's Input to Determination of the AP600 Main Control Room Staffing Level, July 1996
18.7	[WCAP-14651	<i>Integration of Human Reliability Analysis and Human Factors Engineering Design Implementation Plan, Revision 2, May 1997]*</i>
18.8	[WCAP-14396	<i>Man-in-the-Loop Test Plan Description, Revision 2, January 1997]*</i>
	[WCAP-14651	<i>Integration of Human Reliability Analysis and Human Factors Engineering Design Implementation Plan, Revision 2, May 1997]*</i>

*NRC Staff approval is required prior to implementing a change in this information; see DCD Introduction Section 3.5.

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MATERIAL REFERENCED

DCD Section Number	Westinghouse Topical Report Number	Title
18.8	[WCAP-14401	<i>Programmatic Level Description of the AP600 Human Factors Verification of Validation Plan, Revision 3, April 1997]*</i>
	[WCAP-14695	<i>Description of the Westinghouse Operator Decision Making Model and Function Based Task Analysis Methodology, July 1996]*</i>
	WCAP-14655	Designer's Input to the Training of the Human Factors Engineering Verification and Validation Personnel, Revision 1, August 1996
	WCAP-14690	Designer's Input to Procedure Development for the AP600, Revision 1, June 1997
	WCAP-10170	Emergency Response Facilities Design and V&V Process, April 1982
	WCAP-14694	Designer's Input to Determination of the AP600 Main Control Room Staffing Level, July 1996
	[WCAP-14701	<i>Methodology and Results of Defining Evaluation Issues for the AP600 Human System Interface Design Test Program, Revision 1, May 1997]*</i>
18.9	WCAP-14690	Designer's Input to Procedure Development for the AP600, Revision 1, May 1997
18.10	WCAP-14655	Designer's Input to the Training of the Human Factors Engineering Verification and Validation Personnel, Revision 1, August 1996
18.11	[WCAP-14701	<i>Methodology and Results of Defining Evaluation Issues for the AP600 Human System Interface Design Test Program, Revision 1, May 1997]*</i>
	[WCAP-14396	<i>Man-in-the-Loop Test Plan Description, Revision 2, January 1997]*</i>
	[WCAP-14401	<i>Programmatic Level Description of the AP600 Human Factors Verification of Validation Plan, Revision 3, April 1997]*</i>
18.12	[WCAP-14651	<i>Integration of Human Reliability Analysis with Human Factors Engineering Design Implementation Plan, Revision 2, May 1997]*</i>
	WCAP-13793	The AP600 System/Event Matrix, June 1994

*NRC Staff approval is required prior to implementing a change in this information; see DCD Introduction Section 3.5.