Westinghouse Electric Corporation
Energy Systems

Box 355
Pittsburgh Pennsylvania 15230-0355

AW-96-963

May 6, 1996

Document Control Desk
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

ATTENTION: T. R. QUAY

APPLICATION FOR WITHHOLDING PROPRIETARY INFORMATION FROM PUBLIC DISCLOSURE

SUBJECT: WESTINGHOUSE RESPONSES TO NRC REQUESTS FOR ADDITIONAL INFORMATION ON THE AP600

Dear Mr. Quay:

The application for withholding is submitted by Westinghouse Electric Corporation ("Westinghouse") pursuant to the provisions of paragraph (b)(1) of Section 2.790 of the Commission's regulations. It contains commercial strategic information proprietary to Westinghouse and customarily held in confidence.

The proprietary material for which withholding is being requested is identified in the proprietary version of the subject report. In conformance with 10CFR Section 2.790, Affidavit AW-96-963 accompanies this application for withholding setting forth the basis on which the identified proprietary information may be withheld from public disclosure.

Accordingly, it is respectfully requested that the subject information which is proprietary to Westinghouse be withheld from public disclosure in accordance with 10CFR Section 2.790 of the Commission's regulations.

Correspondence with respect to this application for withholding or the accompanying affidavit should reference AW-96-963 and should be addressed to the undersigned.

Very truly yours,

Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/nja

cc: Kevin Bohrer NRC 12H5

2763A

AW-96-963

AFFIDAVIT

COMMONWEALTH OF PENNSYLVANIA:

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COUNTY OF ALLEGHENY:

Before me, the undersigned authority, personally appeared Brian A. McIntyre, who, being by me duly sworn according to law, deposes and says that he is authorized to execute this Affidavit on behalf of Westinghouse Electric Corporation ("Westinghouse") and that the averments of fact set forth in this Affidavit are true and correct to the best of his knowledge, information, and belief:

Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

Sworn to and subscribed
before me this 8 day
of May, 1996

Notary Public

Notarial Seal
Rose Marie Payne, Notary Public
Monroeville Boro, Allegheny County
My Commission Expires Nov. 4, 1996
Member, Pennsylvania Association of Notaries

2764A

(1) I am Manager, Advanced Plant Safety And Licensing, in the Advanced Technology Business Area, of the Westinghouse Electric Corporation and as such, I have been specifically delegated the function of reviewing the proprietary information sought to be withheld from public disclosure in connection with nuclear power plant licensing and rulemaking proceedings, and am authorized to apply for its withholding on behalf of the Westinghouse Energy Systems Business Unit.

(2) I am making this Affidavit in conformance with the provisions of 10CFR Section 2.790 of the Commission's regulations and in conjunction with the Westinghouse application for withholding accompanying this Affidavit.

(3) I have personal knowledge of the criteria and procedures utilized by the Westinghouse Energy Systems Business Unit in designating information as a trade secret, privileged or as confidential commercial or financial information.

(4) Pursuant to the provisions of paragraph (b)(4) of Section 2.790 of the Commission's regulations, the following is furnished for consideration by the Commission in determining whether the information sought to be withheld from public disclosure should be withheld.

(i) The information sought to be withheld from public disclosure is owned and has been held in confidence by Westinghouse.

(ii) The information is of a type customarily held in confidence by Westinghouse and not customarily disclosed to the public. Westinghouse has a rational basis for determining the types of information customarily held in confidence by it and, in that connection, utilizes a system to determine when and whether to hold certain types of information in confidence. The application of that system and the substance of that system constitutes Westinghouse policy and provides the rational basis required.

Under that system, information is held in confidence if it falls in one or more of several types, the release of which might result in the loss of an existing or potential competitive advantage, as follows:

(a) The information reveals the distinguishing aspects of a process (or component, structure, tool, method, etc.) where prevention of its use by any of Westinghouse's competitors without license from Westinghouse constitutes a competitive economic advantage over other companies.

(b) It consists of supporting data, including test data, relative to a process (or component, structure, tool, method, etc.), the application of which data secures a competitive economic advantage, e.g., by optimization or improved marketability.

(c) Its use by a competitor would reduce his expenditure of resources or improve his competitive position in the design, manufacture, shipment, installation, assurance of quality, or licensing a similar product.

(d) It reveals cost or price information, production capacities, budget levels, or commercial strategies of Westinghouse, its customers or suppliers.

(e) It reveals aspects of past, present, or future Westinghouse or customer funded development plans and programs of potential commercial value to Westinghouse.

(f) It contains patentable ideas, for which patent protection may be desirable.

There are sound policy reasons behind the Westinghouse system which include the following:

(a) The use of such information by Westinghouse gives Westinghouse a competitive advantage over its competitors. It is, therefore, withheld from disclosure to protect the Westinghouse competitive position.

(b) It is information which is marketable in many ways. The extent to which such information is available to competitors diminishes the Westinghouse ability to sell products and services involving the use of the information.

(c) Use by our competitor would put Westinghouse at a competitive disadvantage by reducing his expenditure of resources at our expense.

(d) Each component of proprietary information pertinent to a particular competitive advantage is potentially as valuable as the total competitive advantage. If competitors acquire components of proprietary information, any one component may be the key to the entire puzzle, thereby depriving Westinghouse of a competitive advantage.

(e) Unrestricted disclosure would jeopardize the position of prominence of Westinghouse in the world market, and thereby give a market advantage to the competition of those countries.

(f) The Westinghouse capacity to invest corporate assets in research and development depends upon the success in obtaining and maintaining a competitive advantage.

(iii) The information is being transmitted to the Commission in confidence and, under the provisions of 10CFR Section 2.790, it is to be received in confidence by the Commission.

(iv) The information sought to be protected is not available in public sources or available information has not been previously employed in the same original manner or method to the best of our knowledge and belief.

(v) Enclosed is Letter NSD-NRC-96-4712, May 6, 1996 being transmitted by Westinghouse Electric Corporation (W) letter and Application for Withholding Proprietary Information from Public Disclosure, Brian A. McIntyre (W), to Mr. T. R. Quay, Office of NRR. The proprietary information as submitted for use by Westinghouse Electric Corporation is in response to questions concerning the AP600 plant and the associated design certification application and is expected to be applicable in other licensee submittals in response to certain NRC requirements for justification of licensing advanced nuclear power plant designs.

This information is part of that which will enable Westinghouse to:

(a) Demonstrate the design and safety of the AP600 Passive Safety Systems.

(b) Establish applicable verification testing methods.

(c) Design Advanced Nuclear Power Plants that meet NRC requirements.

(d) Establish technical and licensing approaches for the AP600 that will ultimately result in a certified design.

(e) Assist customers in obtaining NRC approval for future plants.

Further this information has substantial commercial value as follows:

(a) Westinghouse plans to sell the use of similar information to its customers for purposes of meeting NRC requirements for advanced plant licenses.

(b) Westinghouse can sell support and defense of the technology to its customers in the licensing process.

Public disclosure of this proprietary information is likely to cause substantial harm to the competitive position of Westinghouse because it would enhance the ability of competitors to provide similar advanced nuclear power designs and licensing defense services for commercial power reactors without commensurate expenses. Also, public disclosure of the information would enable others to use the information to meet NRC requirements for licensing documentation without purchasing the right to use the information.

The development of the technology described in part by the information is the result of applying the results of many years of experience in an intensive Westinghouse effort and the expenditure of a considerable sum of money.

In order for competitors of Westinghouse to duplicate this information, similar technical programs would have to be performed and a significant manpower effort, having the requisite talent and experience, would have to be expended for developing analytical methods and receiving NRC approval for those methods.

Further the deponent sayeth not.

Enclosure 2 Westinghouse Nonproprietary

RAI 440.258

Question 440.258

Attached is a list of the AP600 drawings that INEL used to build the RELAP5 input model. Which of these drawings are still valid? If they have been revised, provide a copy of the revised drawings.

Response:

Attached please find the list of AP600 drawings used to build the RELAP5 input model. The list is a modified version of Tables 440.258-1 and 440.258-1. They have been expanded to indicate the current version of these drawings. Please note that the "Date" column has been deleted. Where a new version of a drawing exists, it is also attached. Other requirements and information about these features in AP600 can be found in the SSAR.

SSAR Rev. None

Table 440.258-1
Westinghouse Revision

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
1	ADS	1100-PLK-703 Rev. C	RCS-PLW-010, 011, 012, 014, 015, 017, 018, 019, 01A, 01B, 01D, 01E, 01G, 01H ALL REVISION 1, As Marked RCS-PLW-070, 080 BOTH REVISION 0	Study Sketch Isometric Lower Pressurizer Letdown Piping To Spargers
2	ADS	1100-PLK-704 Rev. B		Study Sketch Isometric upper Pressurizer Letdown Piping To Spargers
3	ADS	1100-PLK-701 Rev. D		Study Sketch Isometric Lower Pressurizer Letdown Piping To Spargers
4	ADS	1100-PLK-702 Rev. D		Study Sketch Isometric Upper Pressurizer Letdown Piping To Spargers
5	ADS	1100-PLK-702		Figure 2: PSADS Piping Upper Tier Isometric
6	ADS	1100-PLK-703		Figure 3: PSADS Lower Riser Isometric
7	ADS	1100-PLK-705		Figure 5: Pressurizer Riser Piping - Elevation
8	ADS	1100-PLK-701		Figure 1: Press. Safety and Automatic Depres. System (PSADS) Piping Lower Tier Isometric
9	ADS	1100-PLK-704		Figure 4: PSADS Upper Riser Isometric
10	PZR		RCS-PLW-020, 021, 022, 023, 024, 025, 026, 027 ALL REVISION 0, As Marked	Figure 19: Pressurizer Spray Line Plan View 4
11	PZR			Figure 18: Pressurizer Spray Line Plan View 3
12	PZR			Figure 17: Pressurizer Spray Line Plan View 2
13	PZR			Figure 16: Pressurizer Spray Line Plan View 1
14	PZR			Figure 15: Pressurizer Spray Line Section View

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
15	PZR			Figure 20: Pressurizer Spray Line Plan View 5
16	PBL		PXS-PLW-054, 064, 065 ALL REVISION 1	Figure 14: CMT Pressure Balance Piping Section View 2
17	PBL			Figure 13: CMT Pressure Balance Piping Section View 1
18	PBL			Figure 12: Core Make-up TanK (CMT) Pressure Balance Piping Plan View
19	ADS		SEE ITEMS 1 THRU 9 ABOVE	Figure 6: PSADS Piping 3D Sketch
20	ADS			Figure 7: PSADS Piping and Module Plan View
21	ADS			Figure 8: PSADS Piping and Module Interface Section A-A
22	ADS			Figure 9: PSADS Piping Plan View
23	ADS			Figure 10: PSADS Piping Section A-A
24	ADS			Figure 11: PSADS Piping Section K-K
25	SG	MBO1 V2 001 Rev 2 SH 2/2	MBO1-V2-001, sh 1/4, 2/4, 3/4 ALL REVISION 3	AP-600 Steam Generator General Arrangement
26	SG	MBO1 V2 001 Rev 2 SH 1/2		AP-600 Steam Generator General Arrangement
27	PZR		SEE ITEM 10 THRU 15 ABOVE	Pzr Spray Line (Elevation View)
28	PZR			Pzr Spray Line (Plan View-1)
29	PZR			Pzr Spray Line (Plan View-2)
30	PZR			Pzr Spray Line (Plan View-3)
31	PZR			Pzr Spray Line (Plan View-4)
32	PZR			Pzr Spray Line (Plan View-5)
33	RCPS, SG, CORE	ET-NRC-93-4013		Response to informal INEL Request for AP600 Plant Data (RCP Homologous Curves, SG Tube..
34	ADS		PXS-PLW-035, 036 BOTH REVISION 1	Sketch 1: AP600 ADS 4th Stage-West Compartment

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
35	ADS			Sketch 2: AP600 ADS 4th Stage-West Compartment
36	SG	NTD-NRC-94-4108		Sketch 4 - AP600 Steam Generator Spray Nozzle Detail
37	SG	SGS-PLR-010	BOTH FWS AND SGS PORTIONS TO BE SUPPLIED BY MAY 31, 1996	Sketch 1: Feedwater Loop 1
38	SG	SGS-PLR-020		Sketch 2: Feedwater Loop 2
39	SG	SK MS 002 (1 of 2)	MSS-PLW-010, 011, 012, 013 ALL REVISION B "A" LOOP: SGS-PLW-030, 031, 032, 033, 034, 035 ALL REVISION 1 "B" LOOP: SGS-PLW-040, 041, 042, 043, 044, 045 ALL REVISION 1	Sketch 3: Main Steam Loop 2
40	SG	SK MS 002 (2 of 2)		Sketch 3: Main Steam Loop 2
41	NRHR	NTD-NRC-94-4108		Table 1: AP600 Normal Residual Heat Removal System Resistance Network Node Descriptions
42	NRHR	NTD-NRC-94-4108		Table 2: AP600 Normal Residual Heat Removal System Summary of RNS Flow Path Resistance
43	NRHR	NTD-NRC-94-4108		Figure 1: AP600 Normal Residual Heat Removal System Piping Resistance Nodal Network
44	NRHR	NTD-NRC-94-4108		Figure 2: AP600 Normal Residual Heat Removal System

Table 440.258-2
Westinghouse Revision

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
1	Reactor Vessel	MI01 V1 001 Rev. 2 SH 1/2	MI01-V2-101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112 ALL REVISION 2	AP600 Reactor Internals Outline
2	Reactor Vessel	MI01 V1 001 Rev. 2 SH 2/2		AP600 Reactor Internals Outline
3	Reactor Vessel	MV01 V2 001 Rev. 1 SH 1/2	MV01-V2-001, 002, 003 ALL REVISION 2	Reactor Vessel General Arrangement Elevation
4	Reactor Vessel	MV01 V2 001 Rev. 1 SH 2/2		Reactor Vessel General Arrangement Plan
5	Reactor Vessel	MV01 V2 001 Rev. 1 SH 1/2		Reactor Vessel General Arrangement Elevation
6	Reactor Vessel	MV01 V2 001 Rev. 1 SH 2/2		Reactor Vessel General Arrangement Plan
7	Reactor Vessel	MI01 V1 003 Rev. 1 SH 1/7	SEE ITEMS 1 AND 2 ABOVE	AP600 Lower Internals
8	Reactor Vessel	MI01 V1 003 Rev. 1 SH 2/7		AP600 Lower Internals
9	Reactor Vessel	MI01 V1 003 Rev. 1 SH 3/7		AP600 Lower Internals
10	Reactor Vessel	MI01 V1 003 Rev. 1 SH 4/7		AP600 Lower Internals
11	Reactor Vessel	MI01 V1 003 Rev. 1 SH 5/7		AP600 Lower Internals
12	Reactor Vessel	MI01 V1 003 Rev. 1 SH 6/7		AP600 Lower Internals
13	Reactor Vessel	MI01 V1 003 Rev. 1 SH 7/7		AP600 Lower Internals

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
14	Reactor Vessel	RXS V2 001 Rev. 2 SH 1/3		AP600 Reactor General Assembly
15	Reactor Vessel	RXS V2 001 Rev. 2 SH 2/3		AP600 Reactor General Assembly
16	Reactor Vessel	RXS V2 001 Rev. 2 SH 3/3		AP600 Reactor General Assembly
17	Reactor Vessel	P1126E68 Rev. 4		AP 600 Fuel Assembly Interface Parameters (.374 DIA. Fuel Rod)
18	Reactor Vessel	1101E77 Rev. 45 SH 1/2		Top Nozzle 17x17
19	Reactor Vessel	1101E77 Rev. 45 SH 2/2		Top Nozzle 17x17
20	Reactor Vessel	6114D42	6114D42 REVISION 6	Secondary Core Support Energy Absorber
21	Reactor Vessel	6114D43	6114D43 REVISION 5	Secondary Core Support Housing
22	Reactor Vessel	6117E43	6117E43 REVISION 5	17x17A Guide Tube Upper Enclosure
23	Reactor Vessel	6117E46	6117E46 REVISION 5	17x17AS Guide Tube Upper Weldment
24	Reactor Vessel	6119E09	6119E09 REVISION 7	17x17A-45 Sheath Assembly (Radius)
25	Reactor Vessel	6119E57	6119E57 REVISION 5	Upper Support Column Base
26	Reactor Vessel	6142E11 SH 1/3	6142E11 SH 1/3 REVISION 1	17x17 Guide Tube Enclosure Half
27	Reactor Vessel	6142E11 SH 2/3	6142E11 SH 2/3 REVISION 1	17x17 Guide Tube Enclosure Half
28	Reactor Vessel	6142E11 SH 3/3	6142E11 SH 3/3 REVISION 1	17x17 Guide Tube Enclosure Half
29	Reactor Vessel	6142E12 SH 1/3	6142E12 SH 1/3 REVISION 3	17x17 Guide Tube Lower Weloment

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
30	Reactor Vessel	6142E12 SH 2/3	6142E12 SH 2/3 REVISION 3	17x17 Guide Tube Lower Weloment
31	Reactor Vessel	6142E12 SH 3/3	6142E12 SH 3/3 REVISION 3	17x17 Guide Tube Lower Weloment
32	Reactor Vessel	6142E13 SH 1/2	6142E13 SH 1/2 REVISION 1	17x17 Guide Tube Continuous Assembly
33	Reactor Vessel	6142E13 SH 2/2	6142E13 SH 2/2 REVISION 1	17x17 Guide Tube Continuous Assembly
34	Reactor Vessel	6142E14 SH 1/2	6142E14 SH 1/2 REVISION 1	17x17 Guide Tube Lower Assembly
35	Reactor Vessel	6142E14 SH 2/2	6142E14 SH 2/2 REVISION 1	17x17 Guide Tube Lower Assembly
36	Reactor Vessel	6142E15 SH 1/2	MIO1-V2-201 REVISION 2	17x17 Guide Tube Upper Assembly
37	Reactor Vessel	6142E15 SH 2/2	MI01-V2-202 REVISION 2	17x17 Guide Tube Upper Assembly
38	Reactor Vessel	6143E65 SH 1/4	MI01-M8-201 REVISION 2	Interface Features-Critical 17x17 Guide Tube
39	Reactor Vessel	6143E65 SH 2/4	MI01-M8-202 REVISION 2	Interface Features-Critical 17x17 Guide Tube
40	Reactor Vessel	6143E65 SH 3/4	MI01-M8-203 REVISION 2	Interface Features-Critical 17x17 Guide Tube
41	Reactor Vessel	6143E65 SH 4/4	MI01-M8-204 REVISION 2	Interface Features-Critical 17x17 Guide Tube
42	Arrang. & Plan	1000 P2 901 Rev. 3	1000-P2-901 REVISION 8	General Arrangement Section A-A
43	Arrang. & Plan	1000 P2 902 Rev. 2	1000-P2-902 REVISION 8	General Arrangement Section B-B
44	Arrang. & Plan	1000 P2 903 Rev. 2	1000-P2-903 REVISION 8	General Arrangement Sections C-C & H-H
45	Arrang. & Plan	1000 P2 904 Rev. 3	1000-P2-904 REVISION 8	General Arrangement Section G-G

AP600

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
46	Arrang. & Plan	1000 P2 905 Rev. 3	1000-P2-905 REVISION 8	General Arrangement Section J-J
47	Arrang. & Plan	1000 P2 906 Rev. 3	1000-P2-906 REVISION 8	General Arrangement Section K-K
48	Arrang. & Plan	1000 P2 907 Rev. 2	1000-P2-907 REVISION 8	General Arrangement Section D-D, E-E, F-F, N-N
	Arrang. & Plan		1000-P2-908 REVISION 8	General Arrangement Section M-M
	Arrang. & Plan		1000-P2-909 REVISION 8	General Arrangement Sections I-I, P-P & R-R
49	Arrang. & Plan	1010 P2 001 Rev. 3	1010-P2-001 REVISION 8	General Arrangement Plan at El. 66'-6
50	Arrang. & Plan	1020 P2 001 Rev. 3	1020-P2-001 REVISION 8	General Arrangement Plan at El. 82'-6"
51	Arrang. & Plan	1020 P2 002 Rev. 2	1020-P2-002 REVISION 8	General Arrangement Plan at El. 96'-6"
52	Arrang. & Plan	1030 P2 001 Rev. 3	1030-P2-001 REVISION 8	General Arrangement Plan at El. 100'-0" & 107'-2"
53	Arrang. & Plan	1040 P2 001 Rev. 2	1040-P2-001 REVISION 8	General Arrangement Plan at El. 117'-6"
54	Arrang. & Plan	1050 P2 001 Rev. 2	1050-P2-001 REVISION 8	General Arrangement Operating Deck El. 135'-3"
55	Arrang. & Plan	1060 P2 001 Rev. 2	1060-P2-001 REVISION 8	General Arrangement Roof Plan El. 160'-6" & 153'-0"
56	Arrang. & Plan	1070 P2 001 Rev. 2	1070-P2-001 REVISION 8	General Arrangement Plan at El. 160'-6" & 180'-0"
57	AP600 Pzr.			Pressurizer Heater Support Platebracket
58	AP600 Pzr.			Retaining Basket
59	AP600 Pzr.	MV20 V2 101 Rev.1		Pressurizer Heater Assembly

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
60	AP600 Pzr.	MV20 V2 001 Rev. 2 SH 1/3	MV20-V2-010 REVISION 1	Pressurizer General Arrangement and Details
61	AP600 Pzr.	MV20 V2 002 Rev. 2 SH 2/3	MV20-V2-011 REVISION 1	Pressurizer General Arrangement and Details
62	AP600 Pzr.	MV20 V2 003 Rev. 2 SH 3/3	MV20-V2-012 REVISION 1	Pressurizer General Arrangement and Details
63	AP600 Pzr.	MV20 V1 001 Rev. 1	MV20-V2-101, 102, 103, 104 ALL REVISION 1	AP600 Pressurizer Outline ~~16001300~~ Cu. Ft.
64	AP600 Pzr.	MV20 V1 002 Rev. 1		AP600 Pressurizer Outline ~~16001300~~ Cu. Ft.
65	AP600 Loops	PL01 V2 001 Rev. 3 SH 1/7	PL01-V2-001 REVISION 5	Primary Coolant Loop Outline
66	AP600 Loops	PL01 V2 001 Rev. 3 SH 2/7	PL01-V2-002 REVISION 5	Primary Coolant Loop Outline
67	AP600 Loops	PL01 V2 001 Rev. 3 SH 3/7	PL01-V2-003 REVISION 5	Primary Coolant Loop Outline
68	AP600 Loops	PL01 V2 001 Rev. 3 SH 4/7	PL01-V2-004 REVISION 5	Primary Coolant Loop Outline
69	AP600 Loops	PL01 V2 001 Rev. 3 SH 5/7	PL01-V2-005 REVISION 5	Primary Coolant Loop Outline
70	AP600 Loops	PL01 V2 001 Rev. 3 SH 6/7	PL01- V2-006 REVISION 5	Primary Coolant Loop Outline
71	AP600 Loops	PL01 V2 001 Rev. 3 SH 7/7	PL01-V2-007 REVISION 5	Primary Coolant Loop Outline

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
72	ECCS	STRBRD09.ROA	FOR DVI-A: PXS-PLW-010, 011, 012, 013, 014, 015, 016, 017 ALL REVISION 2, As Marked FOR DVI-B: PXS-PLA-020, 021, 022, 023, 024, 025, 026, 027, 028, 029 02A, 02B ALL REVISION 2, As Marked	Figure 21: IRWST Discharge Piping Plan View 1 34"x48"
73	ECCS	No Number		Figure 22: IRWST Discharge Piping Plan View 2 34"x48"
74	ECCS	STRBRD11.ROA		Figure 26: IRWST Discharge Piping Section D-D 34"x48"
75	ECCS	STRBRD12.ROA		Figure 23: IRWST Discharge Piping Section A-A 34"x48"
76	ECCS	STRBRD13.ROA		Figure 25: IRWST Discharge Piping Section C-C 34"x48"
77	ECCS	STRBRD14.ROA		Figure 24: IRWST Discharge Piping Section B-B 34"x48"
78	ECCS	No Number	SEE TABLE 440.258-1, ITEMS 16 THRU 18	Loop-to-CMT Pressure Balance Line "A" View Looking South 34"x48"
79	ECCS	No Number		Loop-to-CMT Pressure Balance Line - Plan View 34"x48"
80	ECCS	No Number		Loop-to-CMT Pressure Balance Line Elevation View Looking West 34"x48"
81	ECCS (PRHR)	MO-129-127 Rev. F SH 1	PXS-PLW-043, 044 BOTH REVISION 2	Study Sketch Passive PRHR Supply & Ret., Pres. Letdown Piping to Spargers & Misc. Piping
82	ECCS (PRHR)	MO-129-127 Rev. F SH 2		Study Sketch Passive PRHR Supply &Ret., Pres. Letdown Piping to Spargers & Misc. Piping
83	ECCS	1150-PLK-001 SH 3	CURRENT COMPOSITES ONLY ADDRESS CAS AND DWS. THERE IS NO CURRENT EQUIVALENT TO THE "RELAP5" SET SHOWN HERE.	Plan (above Elev. 135'-3")
84	ECCS (PRHR)	1100-PLK-803 SH 4		Elevation "D-D" (Lkg West)
85	ECCS	MO-129-127 Rev. F SH 5		Section "5-4" Typical Bend Symbol Shown Out of Plane
86	ECCS (PRHR)	MO-129-127 Rev. F SH 6		Section "6-4"

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
87	ECCS (PRHR)	MO-129-127 Rev. F SH 7		Section "7-A"
88	ECCS (PRHR)	MO-129-127 Rev. F SH 8		Section "8-A"
89	ECCS	MO-129-127 Rev. F SH 9		Detail "9-A", Detail "9-B", Detail "9-c"
90	ECCS	1120-PLK-001 Rev. B SH 1		Study Sketch East composite Below Elevation 107'-2" Plan View "1-A" Elev. 82'-6" (Piping)
91	ECCS	1120-PLK-002 Rev. B SH 2		Plan View "2A" Elev. 82'-6"
92	ECCS	1120-PLK-003 Rev. B SH 3		Plan View "3-A" Elev. 96'-6"
93	ECCS	1120-PLK-004 Rev. B SH 4		Plan "4-A" Elev. 96'-6"
94	ECCS	1120-PLK-005 Rev. B SH 5		Section "5-A" LKG West
95	ECCS	1123-PLK-001 Rev. B SH 6		Section "6-A"
96	ECCS	1123-PLK-002 Rev. B SH 7		Section "7-A"
97	ECCS	1124-PLK-001 Rev. B SH 8		Section "8-A"
98	ECCS	1120-PLK-006 Rev. B SH 9		Plan View "9-A" Elev. 82'-6" (Steel Only)
99	ECCS	1120-PLK-007 Rev. B SH 10		Plan "10-A" Elev. 96'-6" (Steel Only)
100	ECCS	1120-PLK-008 Rev. B SH 11		Section "11-A" LKG West (Steel Only)
101	ECCS	1124-PLK-002 Rev. B SH 12		Section "12-A"

AP600

IT#	System	RELAP5 Drawing No. or Reference No.	Replacement Drawing No.	Reference or Drawing Title
102	ECCS	ADP5245DMYXM003	MT01-V1-001 REVISION 3 MT01-V1-002 REVISION 1 MT01-V2-001 REVISION 2 MT01-V2-002 REVISION 1	Disegno Di Massima Core Make-up Tank Assembly Drawing
103	ECCS	ADP5245DMYXM001		Disegno Di Massima Core Make-up Tank Outline DWG