



Westinghouse
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Energy Systems

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NTD-NRC-95-4556
DCP/NRC0404
Docket No.: STN-52-003

September 18, 1995

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

ATTENTION: MR. T. R. QUAY

SUBJECT: STATUS REVIEW OF AP600 PROPRIETARY SUBMITTALS

Dear Mr. Quay:

Your letter of August 10, 1995 requested confirmation that the January 22, 1993 Westinghouse request to the NRC to not review the indicated AP600 pre-application submittals was still valid. Westinghouse has rereviewed the material in the January 22, 1993 letter and requests the NRC to return that material to Westinghouse as indicated in the attached Table. The nonproprietary information, except for the nonproprietary version of the proprietary testing reports, referenced in our January 22, 1993 letter is by now out of date and should not be reviewed as a part of the AP600 design certification review.

In your letter of August 11, 1995, Westinghouse was requested to review the status of submittals to the NRC to determine if any of the Westinghouse submittals are (1) no longer considered to be "proprietary" under 10 CFR 2.790, or (2) no longer current and applicable to the AP600 design, or both. This review has been performed and the results are provided in the attached Table.

The scope of the review was limited to the documents identified in the August 11, 1995 letter. The attached Table identifies whether the submittal is no longer current and applicable and whether or not the submittal is still proprietary.

It was noted that some proprietary information submitted by Westinghouse to the NRC did not show up in your letter of August 11, 1995. Westinghouse will conduct a review of all proprietary material submitted and inform you of where there are differences between our records.

ED004.1

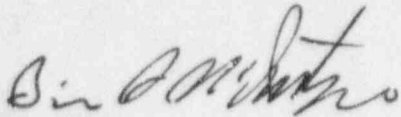
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It was also noted that material appears on the NRC list under the AP600 docket number that is not a part of the AP600 review. This material is noted on the Table attached to this letter and should be removed from the AP600 docket.

Please contact John C. Butler (412-374-5268) if you have any questions concerning this review.



Brian A. McIntyre, Manager
Advanced Plant Safety and Licensing

/nja

Attachment

cc: T. J. Kenyon, NRC
N. J. Liparulo, Westinghouse

Table 1
AP600 Proprietary Submittal Status Review

Key:

- NP - Non-proprietary
- R - Return to Westinghouse
- D - Destroy all copies
- X - Remove from AP600 docket
- (1) - Superceded by post application submittals
- (2) - Superceded by revised or later submittal
- (3) - No longer applicable to AP600 design review
- (4) - Not directly relevant to AP600 design review and should be removed from AP600 docket
- (5) - Presentation material provided for clarification. Not formally part of review material
- (*) - Designated as no longer current and applicable in Westinghouse letter ET-NRC-93-3805, 1/22/93

AP600 Proprietary Submittals			
DATE <u>W</u> SUBMITTAL	COMMENTS	KEY	
2/22/89, NS-NRC-39-3412	AP600 PLANT DESCRIPTION REPORT (*)	R	(1)
5/9/90, NS-NRC-90-3511	AP600 PLANT DESCRIPTION REPORT (*)	R	(1)
7/3/90, NS-NRC-90-3521	AP600 PLANT DESCRIPTION REPORT (*)	R	(1)
7/16/90, NS-NRC-90-3525	WCAP-12665, WCAP-12667, WCAP-12666, WCAP-12668, WCAP-12599 (*),	- - - R R	- - - (1) (1)
7/16/90, NS-NRC-90-3526	AP600 PLANT DESCRIPTION REPORT (*)	R	(1)
7/16/90, NS-NRC-90-3529	WCAP-12662: PRESENTATION TO COMMISSIONER REMICK (*)	R	(1)
1/17/91, NS-NRC-91-3562	WCAP-12748 (*)	R	(1)
2/1/91, NS-NRC-91-3565	AP600 PLANT DESCRIPTION REPORT (*)	R	(1)
8/9/91, NS-NRC-91-3610	RESPONSE TO 6/13/91 REQUEST FOR ADDITIONAL INFORMATION (*)	R	(1)
8/20/91, ET-NRC-91-3614	RESPONSE TO 5/31/91 REQUEST FOR ADDITIONAL INFORMATION (*)	R	(1)

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
9/10/91, ET-NRC-91-3619	RESPONSE TO 5/7/91 REQUEST FOR ADDITIONAL INFORMATION (*)	R	(1)
10/9/91, ET-NRC-91-3626	WCAP-12939-R1	R	(1)
10/16/91, ET-NRC-91-3625	WCAP-13053 (SEE ET-NRC-93-3802 DATED 3/1/93) (*)	R	(1)
11/4/91, ET-NRC-91-3635	RESPONSE TO 11/1/91 REQUEST FOR ADDITIONAL INFORMATION	R	(1)
12/12/91, ET-NRC-91-3644	RESPONSE TO 5/31/91 REQUEST FOR ADDITIONAL INFORMATION	R	(1)
12/16/91, ET-NRC-91-3650	RESPONSE TO 11/14/91 REQUEST FOR ADDITIONAL INFORMATION	R	(1)
1/22/92, ET-NRC-91-3656	RESPONSE TO 1/15/92 REQUEST FOR ADDITIONAL INFORMATION	R	(1)
2/13/92, ET-NRC-92-3662	PRESENTATION MATERIAL FROM 3/5-6/91 MEETING	R	(1)
2/14/92, ET-NRC-92-3663	RESPONSES TO "AP600 DESIGN ISSUES TO BE RESOLVED BY HIGH PRESSURE, FULL HEIGHT INTEGRAL TESTING"	R	(1)
2/24/92, ET-NRC-92-3664	PRESENTATION MATERIAL FROM 2/25/92 MEETING ON AP600 TESTING	R	(1)
2/24/92, ET-NRC-92-3665	RESPONSES TO "NRC REQUEST FOR ADDITIONAL INFORMATION RELATED TO AP600 CONTAINMENT ANALYSIS"	R	(1)
2/25/92, NSRA-APSL-92-039	WESTINGHOUSE COMMENTS ON SECY 92-030 (*)	R	(1)
2/28/92, ET-NRC-92-3670	RESPONSE TO 2/3/92 REQUEST FOR ADDITIONAL INFORMATION FOR SCDAP/RELAP MODIFICATIONS	R	(1)
3/4/92, ET-NRC-92-3671	PRESENTATION MATERIAL FROM 3/3/92 ACRS MEETING ON AP600 TESTING	R	(1)
3/4/92, ET-NRC-92-3672	PRESENTATION MATERIAL FROM 3/3/92 MEETING ON VALVES	R	(1)
3/9/92, ET-NRC-92-3675	PROPOSED COOPERATIVE WESTINGHOUSE NRC INTEGRAL SYSTEMS TESTING PROGRAM (*)	R	(1)
3/12/92, ET-NRC-92-3657	PRESENTATION MATERIAL FROM 1/22-23/92 MEETING ON SSAR CH 18	R	(1)
3/13/92, ET-NRC-92-3677	WCAP-13202 REV 1 (*)	R	(1)

AP600 Proprietary Submittals			
DATE W SUBMITTAL	COMMENTS	KEY	
3/20/92, ET-NRC-92-3679	PRESENTATION MATERIAL FROM CONTAINMENT AND SEVERE ACCIDENT MEETING	R	(1)
4/3/92, ET-NRC-92-3683	WCAP-13241 NRC/WESTINGHOUSE SYSTEMS MEETING 3/5-6/92	R	(1)
4/3/92, ET-NRC-92-3685	WCAP-13277 SCALING DESIGN AND VERIFICATION OF SPES-2	R	(2)
4/29/92, ET-NRC-92-3691	CONTAINMENT VOLUME AND HEAT SINK INFORMATION	R	(1)
4/30/92, ET-NRC-92-3688	WCAP-13342, ADS TEST REV 2 (SEE ET-NRC-93-3884 DATED 5/11/93) WCAP-13353, WATER DISTRIBUTION TEST DATA REPORT WCAP-13351, STUDIES OF HYDRAULIC PHENOMENON WCAP-12648, AP600 INCORE INSTRUMENTATION WCAP-13234, LONG TERM COOLING TEST SPEC WCAP-13267, LST TEST SPEC REV 1 WCAP-13284, TEST PLAN FOR CHECK VALVE WCAP-13286, CHECK VALVE TEST FINAL REPORT WCAP-13288, CHECK VALVE TEST SPEC SEE ET-NRC-93-3884 DATED 5/11/93) WCAP-13290, WATER DISTRIBUTION TEST WCAP-13292, CONSTRUCTION/TEST PLAN WCAP-13294, PHASE I WIND TUNNEL TESTING WCAP-13296, WATER DISTRIBUTION TEST WCAP-13298, RCP AIR MODEL TEST REPORT WCAP-13305, STUDY OF HYDRAULIC PHENOMENA WCAP-13307, CONDENSATION W/ NON-COND (SEE ET-NRC-93-3884, 5/11/93) WCAP-13309, JOURNAL BEARING TEST-TASK 1 WCAP-13313, JOURNAL BEARING TEST TASK PLN WCAP-13315, INTEGRAL CONT COOLING WCAP-13319, HIGH INERTIA ROTOR TESTING WCAP-12668, HIGH INERTIA ROTOR TESTING WCAP-13328, TESTS OF AIR FLOW COOLING WCAP-13330, NATURAL CONVECTION COOLING WCAP-12667, HEAT TRANSFER TEST/SIMULATED CONTAINMENT WCAP-12665, HEAT TRANSFER TESTS/HEATED PLATE WCAP-13342, ADS TEST REV 0 (SEE ET-NRC-93-3884 DATED 5/11/93) WCAP-13353, WATER DISTRIBUTION	R	(2)
6/2/92, ET-NRC-92-3700	PRESENTATION MATERIAL FROM THE 6/4/92 AP600 TECHNICAL BRIEFING	R	(1)

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
6/3/92, ET-NRC-92-3704	PRESENTATION MATERIAL FROM THE 6/5/92 PRESENTATION ON NONSAFETY-RELATED SYSTEMS	R	(1)
6/11/92, ET-NRC-92-3698	STAFF REVIEW PLANS FOR AP600 TEST PROGRAM	R	(1)
6/30/92, ET-NRC-92-3689	AP600 EQUIPMENT REQUIRED AFTER 72 HOURS	R	(1)
6/26/92, ET-NRC-92-3710	STANDARD DESIGN CERTIFICATION APPLICATION FOR AP600	-	-
8/28/92, ET-NRC-92-3738	WCAP-11693, REV 3 "GRAFTER: MICROCOMPUTER BASED CODE"	R	(3)
9/14/92, ET-NRC-92-3722	AP600 DRAWINGS	R	(2)
9/14/92, ET-NRC-92-3749	RESPONSES TO NRC 5/29/92 RAI RELATED TO SPES-2 TEST FACILITY AS DESCRIBED IN WCAP-13277	-	-
9/14/92, ET-NRC-92-3750	PARTIAL RESPONSE TO 7/21/92 RAI ON AP600 TESTING PROGRAM	R	(2)
10/2/92, ET-NRC-92-3753	WCAP-13487 HIGH INERTIA ROTOR PHASE 3 TASK 1 TEST REPORT	R	(2)
10/12/92, ET-NRC-92-3756	WCAP-13499, ALLOY 600 REACTOR VESSEL CLOSURE HEAD PENETRATION CRACK ISSUE	X	(4)
10/30/92, ET-NRC-92-3763	RESPONSE TO RAI REQUESTING INFORMATION FOR USE IN RELAP 5 COMPUTER CODE	-	-
11/23/92, ET-NRC-92-3774	FOUR 3.5" DISKS CONTAINING RESPONSE TO 10/28/92 RAI ON PRA DATA FILES	R	(2)
11/24/92, ET-NRC-92-3775	MATERIAL TO SUPPORT 12/9/92 MEETING: PXS-T1P-001, "SCALING ANALYSIS FOR OSU AP600 INTEGRAL SYSTEM & LONG TERM COOLING TEST" & "LONG TERM COOLING TEST"	R	(2)
11/24/92, ET-NRC-92-3776	SPES-2 SCALING UPDATE INCLUDING TEST SCHEDULE AND DRAFT PXS-T1P-002	R	(2)
12/14/92, ET-NRC-92-3783	PRESENTATION MATERIALS FROM 12/14/92 MEETING ON TEST PROGRAM	R	(5)

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
12/15/92, ET-NRC-92-3779	WCAP-12980, PASSIVE RHR HX TEST FINAL REPORT & PRELIMINARY REFUELING OUTAGE PLAN DESCRIPTION OF PERT CHART ACTIVITIES	-	-
12/17/92, ET-NRC-92-3785	PRESENTATION MATERIALS FROM 12/9-10/92 MEETING ON AP600 TEST PROGRAM	R	(5)
1/7/93	FAX FROM WESTINGHOUSE TO CRUTCHFIELD CONTAINING AP600 LOSS OF OFFSITE POWER FLOW CHART (GW-GSY-001 REV 0). NO AFFIDAVIT.	R	(2)
1/19/93, ET-NRC-93-3797	RESPONSE TO 6/22/93 NRC REQUEST CONTAINING 12 OVERSIZED DRAWINGS	R	(2)
1/25/93, ET-NRC-93-3801	WCAP-13566, LST BASELINE DATA REPORT	-	-
1/29/93, ET-NRC-93-3807	AP600 GENERAL ARRANGEMENT DRAWINGS (RAI 471.1 RESPONSE)	R	(2)
2/5/93, ET-NRC-93-3816	PRESENTATION MATERIALS FROM 2/5/93 MEETING ON VALVES	R	(5)
2/8/93, ET-NRC-93-3817	PRESENTATION MATERIALS FROM 2/10/93 MEETING ON MODULARIZATION	R	(5)
2/8/93, ET-NRC-93-3818	PRESENTATION MATERIALS FROM 2/10/93 MEETING ON CONTAINMENT VESSEL TEMPERATURE	R	(5)
2/15/93, ET-NRC-93-3821	WCAP-13566 (ADDITIONAL COPIES) (SEE ET-NRC-93-3801 DATED 1/25/93)	-	-
2/16/93, ET-NRC-93-3822	PRESENTATION MATERIALS FROM 1/26-27/93 MEETING ON AP600 CONTAINMENT	R	(5)
2/18/93, ET-NRC-93-3823	MATERIAL SUPPORTING WESTINGHOUSE MEETING ON CMT TESTING FOR AP600	R	(2)
2/23/93, ET-NRC-93-3825	SPES-2 FACILITY DRAWINGS	R	(2)
2/24/93, ET-NRC-93-3827	PRESENTATION MATERIALS FROM 2/24/93 MEETING	R	(5)
2/25/93, ET-NRC-93-3829	PRESENTATION MATERIALS FROM 2/25/93 MEETING ON AP600 CONTAINMENT TESTING	R	(5)

AP600 Proprietary Submittals

DATE <u>W</u> SUBMITTAL	COMMENTS	KEY	
3/1/93, ET-NRC-93-3802	REQUESTS THAT WCAP-13053 (SUBMITTED BY ET-NRC-91-3625 ON 10/16/91) BE DESTROYED. SUPERSEDED BY REV 1 TO WCAP-13054	-	-
3/3/93, ET-NRC-93-3830	DRAWINGS FOR AP600 LONG TERM COOLING TESTS	R	(2)
3/16/93, ET-NRC-93-3837	OVERSIZED DRAWINGS FOR HVAC SYSTEMS. DRAWINGS ARE MARKED PROPRIETARY TO EPRI AND WESTINGHOUSE BUT WERE NOT SUBMITTED WITH AN AFFDAVIT	R	(2)
3/16/93, ET-NRC-93-3841	MATERIAL TO SUPPORT MEETING ON CONTAINMENT TESTS (REFERENCES WCAP-13267 SUBMITTED BY ET-NRC-92-3688 DATED 4/30/92)	-	-
3/18/93, ET-NRC-93-3839	27 OVERSIZE DRAWINGS IDENTIFYING AP600 RADIATION ZONES. DRAWINGS ARE MARKED PROPRIETARY TO EPRI AND WESTINGHOUSE BUT WERE NOT SUBMITTED WITH AN AFFDAVIT	R	(2)
3/24/93, ET-NRC-93-3845	PRESENTATION MATERIALS FROM 3/23-24/93 MEETING ON CONTAINMENT TEST PROGRAM	R	(5)
4/1/93, ET-NRC-93-3852	ADDITIONAL COPIES OF SSAR (SEE ET-NRC-92-3710 DATED 6/26/92)	-	-
4/1/93, ET-NRC-93-3853	REACTOR VESSEL INTERNALS DRAWINGS AND TOPICAL REPORTS	R	(2)
4/1/93, ET-NRC-93-3854	CORRECTED DRAWINGS FOR PASSIVE RHR SYSTEM (SEE ET-NRC-92-3722 DATED 9/14/92)	R	(2)
4/2/93, ET-NRC-93-3857	ADDITIONAL COPIES OF WCAP 10054-P-A AND WCAP 7007-P-A	-	-
4/8/93, ET-NRC-93-3860	REVISED AP600 PROCESS BLOCK DIAGRAMS	R	(2)
4/19/93, ET-NRC-93-3867	PRESENTATION MATERIALS FROM 4/20/93 MEETING	R	(5)
4/28/93, ET-NRC-93-3874	ADDITIONAL COPIES WCAP-13383 (SEE ET-NRC-92-3735 DATED 8/21/92)	-	-
5/3/93, ET-NRC-93-3877	PRESENTATION MATERIALS FROM 4/20/93 (ADS TESTS AT VAPORE) AND 4/22/93 (SPES) MEETING	R	(5)

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
5/5/93, ET-NRC-93-3878	I&C DIAGRAMS TO SUPPORT RAI 420.11 AND 420.90	-	-
5/5/93, ET-NRC-93-3879	PRESENTATION MATERIALS FROM 5/4/93 MEETING TO DISCUSS ADS PHASE A TEST RESULTS	R	(5)
5/11/93, ET-NRC-93-3883	WCAP-13234 REV 1 (SEE ET-NRC-92-3688 DATED 4/30/92) WCAP-13277 REV 1 (SEE ET-NRC-92-3685 DATED 4/3/92)	R -	(2) -
5/11/93, ET-NRC-93-3884	WCAP-13307, WCAP-13288, WCAP-13342, WCAP-13246 SEE ET-NRC-92-3688 DATED 4/30/92 AND ET-NRC-92-3726 DATED 7/31/92	- - - -	- - - -
5/11/93, ET-NRC-93-3885	PRESENTATION MATERIALS FROM 5/26-27/93 MEETING ON ADS TESTING	R	(5)
5/13/93, ET-NRC-93-3889	PRESENTATION MATERIALS FROM 5/13/93 MEETING ON AP600 PIPING ANALYSIS	R	(5)
5/20/93, ET-NRC-93-3891	WCAP-13594, PROTECTION SYSTEM FMEA	-	-
5/24/93, ET-NRC-93-3890	WCAP-13734, RCP FLYWHEEL ANALYSIS REPORT	-	-
5/24/93, ET-NRC-93-3893	FACILITY DRAWINGS FOR ADS PHASE B TESTS	R	(2)
6/1/93, ET-NRC-93-3881	PRESENTATION MATERIALS FROM 5/26-27/93 MEETING ON ADS TESTS	R	(5)
6/10/93, ET-NRC-93-3901	RESPONSE TO INEL RAIs ON OSU (REQUESTS DATED 4/14/93 AND 5/12/93)	-	-
6/14/93, ET-NRC-93-3903	WCAP-13725, -13727, -13732, & -13742	-	-
7/7/93, ET-NRC-93-3918	WCAP-13758	-	-
7/14/93, ET-NRC-93-3920	PRESENTATION MATERIALS FROM 7/14/93 MEETING ON MCR HABITABILITY	R	(5)
7/15/93, ET-NRC-93-3926	WCAP-13414, -13419, & -13756	-	-
7/26/93, ET-NRC-93-3929	WCAP-13633, I&C DEFENSE IN DEPTH AND DIVERSITY REPORT	-	-

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
7/28/93, ET-NRC-93-3932	DRAFT NOTEBOOK OF RELAP5/MOD3 INPUT FILES	-	-
7/28/93, ET-NRC-93-3933	DRAFT OSU SCALING ANALYSIS REPORT (OSU-NE-9204)	R	(2)
8/2/93, ET-NRC-93-3935	WCAP-12980 REV 1 (SEE ET-NRC-92-3779 DATED 12/15/92 & AFFIDAVIT AW-92-382)	-	-
8/16/93, ET-NRC-93-3944	DRAWINGS OF CMT TEST FACILITY	R	(2)
8/16/93, ET-NRC-93-3945	PRELIMINARY THESIS OF I K HUHTINIEMI (1990)	R	(2)
8/18/93, ET-NRC-93-3949	RAI RESPONSE TO 4/2/93 LETTER CONTAINING ADS, IRWST, & CMT DRAWINGS (SEE ET-NRC-93-4001 DATED 10/27/93)	-	-
8/19/93, ET-NRC-93-3952	WCAP-13816, PHASE 3 WATER DISTRIBUTION SYSTEM TEST	-	-
8/25/93, ET-NRC-93-3957	AP600 DESIGN BASIS DOUBLE ENDED BREAK DATA TABLE	R	(2)
9/3/93, ET-NRC-93-3961	RAI 480.12 RESPONSE	-	-
9/17/93, ET-NRC-93-3969	OSU FACILITY DRAWINGS	R	(2)
9/20/93, ET-NRC-93-3965	WCAP-13795 "AP600 UNCERTAINTY ANALYSIS", AP600 PRA REPORT FIGURE F-24, SENSITIVITY ANALYSIS	-	-
9/24/93, ET-NRC-93-3974	WCAP-13856, "AP600 IMPLEMENTATION REPORT FOR REGULATORY TREATMENT OF NONSAFETY-RELATED SYSTEMS" DRAFT PRA REVISION SECTIONS	NP	-
		R	(2)
9/27/93, ET-NRC-93-3970	WCAP-13277 REV 1, WCAP-12980 REV 1, WCAP-10054-P-A, AND WCAP-10079-P-A (LETTER ADDRESSED TO ACRS)	-	-
10/4/93, ET-NRC-93-3981	QLR FOR PCCS LST TESTS 202.3 AND 203.3	R	(2)
10/6/93, ET-NRC-93-3983	AS BUILT DRAWINGS FOR LST FACILITY	-	-
10/8/93, ET-NRC-93-3984	DNB TEST MATRIX	R	(2)

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
10/15/93, ET-NRC-93-3991	QLR FOR PCCS LST TESTS 212.1 AND 213.1	R	(2)
10/15/93, ET-NRC-93-3993	PRESENTATION MATERIALS FROM 9/20/93 MEETING ON OSU TESTING	R	(5)
10/20/93, ET-NRC-93-3990	RAI 720.090 RESPONSE, RCS LEAK PRA EVALUATION	-	-
10/21/93, ET-NRC-93-3997	HEAT SINK DATA FOR PCCS LST PHASE 2 TEST FACILITY	-	-
10/27/93, ET-NRC-93-4001	RAI 952.1 RESPONSE (SEE ALSO ET-NRC-93-3949 DATED 8/18/93)	-	-
10/29/93, ET-NRC-93-4005	QLR FOR PCCS PHASE 2 TESTS 214.1 AND 215.1	R	(2)
11/12/93, ET-NRC-93-4012	QLR FOR PCCS PHASE 2 TESTS 217.1 AND 218.1	R	(2)
11/12/93, ET-NRC-93-4013	RESPONSE TO INEL REQUEST FOR AP600 PLANT DATA	-	-
12/8/93, ET-NRC-93-4026	ELECTRONIC COPY WESTINGHOUSE DOCUMENTS PREVIOUSLY SUBMITTED TO THE NRC - AP600 PRA - AP600 ITAAC - AP600 RAI RESPONSES	D NP NP	(2) - -
12/16/93, ET-NRC-93-4029	PRESENTATION MATERIALS FROM 12/10/93 MEETING	R	(5)
12/20/93, ET-NRC-93-4030	TEST DESCRIPTION PACKAGE FOR PCCS LST PHASE 2 TEST 220.1	R	(2)
12/20/93, ET-NRC-93-4031	DRAFT SCALING ANALYSIS FOR AP600 CMT SEPARATE EFFECTS TESTING	R	(2)
12/22/93, ET-NRC-93-4032	PRESENTATION MATERIALS FROM 12/22/93 SENIOR MANAGEMENT MEETING	R	(5)
1/11/94, NTD-NRC-94-4036	RESPONSE TO RAI 420.120 AND 420.121	-	-
1/13/94, NTD-NRC-94-4039	REV 1 TO SSAR (SEE NTD-NRC-94-4040 DATED 1/14/94)	-	-
1/14/94, NTD-NRC-94-4040	REV 1 TO SSAR (SEE NTD-NRC-94-4039 DATED 1/13/94)	-	-
1/17/94, NTD-NRC-94-4041	RESPONSE TO RAI 420.113	-	-

AP600 Proprietary Submittals

DATE W SUBMITTAL	COMMENTS	KEY	
1/18/94, NTD-NRC-94-4035	QLR FOR LST PHASE 2 TEST 216.1	R	(2)
1/21/94, NTD-NRC-94-4046	PRESENTATION MATERIALS FROM 1/20-21/94 MEETING	R	(5)
1/21/94, NTD-NRC-94-4049	WCAP-13913, REV 2, "SEVERE ACCIDENT MANAGEMENT GUIDANCE (SEE NTD-NRC-94-4058 DATED 2/3/94)	-	-
1/25/94, NTD-NRC-94-4050	PRESENTATION MATERIALS FROM 1/25/94 MEETING	R	(5)
1/28/94, NTD-NRC-94-4053	QLR FOR LST PHASE 2 TEST 219.1	R	(2)
2/2/94, NTD-NRC-94-4056	WCAP-13884 AND WCAP-13960	-	-
2/3/94, NTD-NRC-94-4058	WCAP-13913 Rev. 2 (SEE NTD-NRC-94-4049 DATED 1/21/94)	-	-
2/8/94, NTD-NRC-94-4042	WCAP-13957 FUNCTION BASED TASK ANALYSIS EXAMPLE	-	-
2/11/94, NTD-NRC-94-4062	QLR FOR LST PHASE 2 TEST 221.1	R	(2)
2/11/94, NTD-NRC-94-4063	WCAP-8897 ADDENDUM 2	-	-
2/15/94, NTD-NRC-94-4064	DESIGN CHANGE DESCRIPTION REPORT	R	(2)
2/22/94, NTD-NRC-94-4066	PRESENTATION MATERIALS FROM 2/22/94 MEETING	R	(5)
2/22/94, NTD-NRC-94-4068	WCAP-13963: Scaling Logic for CMT Test	R	(2)
2/23/94, NTD-NRC-94-4067	PRESENTATION MATERIALS FROM 2/23-24/94 MEETING	R	(5)
2/28/94, NTD-NRC-94-4047	RESPONSE TO RAI 440.35	-	-
3/21/94, NTD-NRC-94-4081	PRESENTATION MATERIALS FROM 3/14/94 MEETING	R	(5)
3/21/94, NTD-NRC-94-4083	PRESENTATION MATERIALS FROM 3/17/94 MEETING	R	(5)
3/24/94, NTD-NRC-94-4082	WCAP-14005, WIND TUNNEL PHASE 4b TEST PLAN	-	-
3/31/94, NTD-NRC-94-4089	PRESENTATION MATERIALS FROM 3/28-29/94 MEETING	R	(5)

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4/4/94, NTD-NRC-94-4090	QLR FOR LST PHASE 2 TEST 222.1	R	(2)
4/7/94, NTD-NRC-94-4092	CONTAINMENT VESSEL DESIGN INFORMATION	R	(2)
4/12/94, NTD-NRC-94-4070	INFORMATION ON SPES-2 AND OSU TEST CONDITIONS	-	-
4/14/94, NTD-NRC-94-4097	AP600 DESIGN CRITERIA INFORMATION	R	(3)
4/18/94, NTD-NRC-94-4100	PASSIVE CONTAINMENT COOLING SYSTEM LETTER REPORTS (Radiative Heat Transfer)	-	-
4/25/94, NTD-NRC-94-4106	RESPONSE TO RAI 952.48	-	-
4/25/94, NTD-NRC-94-4107	SOIL STRUCTURE INTERACTION DESIGN INFORMATION	R	(2)
4/29/94, NTD-NRC-94-4108	ADDITIONAL INFORMATION IN RESPONSE TO RAI 952.43 (AP600 Sketches)	-	-
4/29/94, NTD-NRC-94-4109	ADDITIONAL INFORMATION IN RESPONSE TO RAI 952.64	-	-
4/29/94, NTD-NRC-94-4113	AP600 I&C PROCESS BLOCK DIAGRAMS	-	-
5/2/94, NTD-NRC-94-4112	DESIGN CRITERIA INFORMATION	R	(3)
5/4/94, NTD-NRC-94-4119	SOIL STRUCTURE SEISMIC DESIGN INFORMATION	R	(2)
5/4/94, NTD-NRC-94-4121	QLR FOR LST PHASE 2 TESTS 222.2, 222.3, AND 222.4	R	(2)
5/4/94, NTD-NRC-94-4122	WCAP-14053	R	(2)
5/11/94, NTD-NRC-94-4126	WCAP-13589: "ASSESSMENT OF CLAD FLATTENING..."	X	(4)
5/12/94, NTD-NRC-94-4132	PRESENTATION MATERIALS FROM 5/10/94 MEETING	R	(5)
5/13/94, NTD-NRC-94-4133	WCAP-13345 REV 3 (NOTE: THIS IS MARKED AS A NON-PROPRIETARY REPORT)	R	(2)
5/17/94, NTD-NRC-94-4114	ADDITIONAL INFORMATION FOR RAI 952.44 THROUGH 952.46 RESPONSES	-	-
5/19/94, NTD-NRC-94-4141	ADDITIONAL INFORMATION FOR RAI 220.76 RESPONSE	R	(2)

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5/25/94, NTD-NRC-94-4146	INFORMATION TO SUPPORT INDEPENDENT PIPING ANALYSIS	R	(2)
5/27/94, NTD-NRC-94-4149	INFORMATION TO SUPPORT INDEPENDENT SOIL STRUCTURE INTERACTION ANALYSIS	R	(2)
5/31/94, NTD-NRC-94-4150	QLR FOR LST PHASE 2 TEST 223.1	R	(2)
6/1/94, NTD-NRC-94-4153	ELECTRONIC COPY OF MATERIALS PREVIOUSLY SUBMITTED: - PRA REV 0, - SSAR REV 0 & REV 1 - RESPONSES TO RA's	D D -	(2) (2) -
6/6/94, NTD-NRC-94-4156	WCAP-14068; PHASE 4A WIND TUNNEL TESTING	-	-
6/7/94, NTD-NRC-94-4159	QLR FOR LST TESTS 224.1 AND 224.2, PCS-T2R-029	R	(2)
6/10/94, NTD-NRC-94-4166	PCCS LETTER REPORT (MAY 1993), CONTAINMENT COOLING PLUME INVESTIGATION	-	-
6/14/94, NTD-NRC-94-4169	SOIL STRUCTURE INTERACTION ANALYSIS	R	(2)
6/15/94, NTD-NRC-94-4164	INITIAL CONDITION DATA FOR SPES-2 MATRIX TEST 4	R	(2)
6/20/94, NTD-NRC-94-4176	WCAP-13891, ADS PHASE A DATA REPORT	-	-
6/30/94, NTD-NRC-94-4175	AP600 DESIGN CHANGE REPORT	R	(2)
7/1/94, NTD-NRC-94-4187	WCAP-13793 (LISTED AS NON-PROPRIETARY ON COVER LETTER)	NP	-
7/1/94, NTD-NRC-94-4188	WCAP-14080	-	-
7/1/94, NTD-NRC-94-4190	AP600 PROCESS AND INSTRUMENTATION DIAGRAMS	R	(2)
7/6/94, NTD-NRC-94-4178	WCAP-14073 (REV 0) AND WCAP-14112 (REV 0)	-	-
7/6/94, NTD-NRC-94-4191	APWR-0452-P, VORTEX MITIGATOR DEVELOPMENT TEST	-	-
7/6/94, NTD-NRC-94-4193	QLR FOR SPES 2 COLD PREOPERATIONAL TESTING	R	(2)

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7/15/94, NTD-NRC-94-4200	INFORMATION TO SUPPORT INDEPENDENT PIPING ANALYSIS	R	(2)
7/19/94, NTD-NRC-94-4205	WCAP-14091, PHASE 4B WIND TUNNEL TESTING	-	-
7/22/94, NTD-NRC-94-4206	QLR FOR SPES-2 TEST S00303	R	(2)
7/22/94, NTD-NRC-94-4233	REVISION 1 TO AP600 PRA	-	-
7/26/94, NTD-NRC-94-4240	RESPONSE TO RAI 952.27	-	-
7/28/94, NTD-NRC-94-4246	AP600 PCCS PRELIMINARY SCALING REPORT	R	(2)
7/28/94, NTD-NRC-94-4247	AP600 PCCS LETTER REPORTS, PCS-GSR-003	-	-
7/29/94, NTD-NRC-94-4211	QLR FOR SPES-2 MATRIX TEST S00401	R	(2)
7/29/94, NTD-NRC-94-4212	QLR FOR SPES-2 MATRIX TEST S00504, (PXS-T2R-021 REV 0)	R	(2)
7/29/94, NTD-NRC-94-4213	QLR FOR SPES-2 MATRIX TEST S00605	R	(2)
7/29/94, NTD-NRC-94-4214	QLR FOR SPES-2 MATRIX TEST S00706	R	(2)
7/29/94, NTD-NRC-94-4215	QLR FOR SPES-2 MATRIX TEST S00908, PXS-T2R-024	R	(2)
7/29/94, NTD-NRC-94-4216	QLR FOR SPES-2 MATRIX TEST S01007	R	(2)
7/29/94, NTD-NRC-94-4217	QLR FOR SPES-2 MATRIX TEST S01110	R	(2)
7/29/94, NTD-NRC-94-4218	QLR FOR SPES-2 HOT PREOPERATIONAL TEST RESULTS	R	(2)
7/29/94, NTD-NRC-94-4219	QLR FOR OSU COMPONENT VOLUME DETERMINATION	R	(2)
7/29/94, NTD-NRC-94-4220	QLR FOR OSU FLOW TEST/LINE RESISTANCE DETERMINATION	R	(2)
7/29/94, NTD-NRC-94-4221	QLR FOR OSU HOT FUNCTIONAL TEST, OSU-HS-01	R	(2)
7/29/94, NTD-NRC-94-4222	QLR FOR OSU HOT FUNCTIONAL TESTING, OSU-HS-02	R	(2)

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7/29/94, NTD-NRC-94-4223	QLR FOR OSU HOT SHAKEDOWN TEST HS03	R	(2)
7/29/94, NTD-NRC-94-4224	QLR FOR OSU MATRIX TEST SB1	P	(2)
7/29/94, NTD-NRC-94-4225	QLR FOR OSU MATRIX TEST SB4	R	(2)
7/29/94, NTD-NRC-94-4226	QLR FOR OSU MATRIX TEST SB13	R	(2)
7/29/94, NTD-NRC-94-4227	QLR FOR OSU MATRIX TEST SB10	R	(2)
7/29/94, NTD-NRC-94-4228	QLR FOR CMT HOT PREOPERATIONAL TESTS	R	(2)
7/29/94, NTD-NRC-94-4231	QLR FOR CMT COLD PREOPERATIONAL TEST	R	(2)
7/29/94, NTD-NRC-94-4241	PRESENTATION MATERIALS FROM 7/26-28/94 MEETING	R	(5)
7/29/94, NTD-NRC-94-4243	WCAP-14135 (SEE NTD-NRC-94-4315 DATED 10/10/94)	-	-
7/29/94, NTD-NRC-94-4244	WCAP-14132	-	-
7/29/94, NTD-NRC-94-4245	WCAP-14124	-	-
8/2/94, NTD-NRC-94-4250	QLR FOR CRITICAL HEAT FLUX TESTS, RXS-T2R-003	R	(2)
8/10/94, NTD-NRC-94-4260	GOTHIC CONTAINMENT ANALYSIS PACKAGE (EPRI PROPRIETARY-CORRESPONDENCE FOR WITHHOLDING SHOULD BE ADDRESSED TO EPRI)	-	-
8/19/94, NTD-NRC-94-4271	WGOthic LUMPED PARAMETER INPUT	-	-
8/22/94, NTD-NRC-94-4268	QLR FOR OSU LONG TERM COOLING TEST SB3, SB5, SB12 (LTCT-T2R-023,-025,-032)	R	(2)
8/24/94, NTD-NRC-94-4195	PLANT SECURITY REPORT- WITHHOLD PER 10CFR2.790(d) IAW 10CFR73.2/10CFR73.2(b)	-	-
8/24/94, NTD-NRC-94-4242	WCAP-14134	-	-
8/31/94, NTD-NRC-94-4230	QLR FOR CMT 300 SERIES MATRIX TESTS	R	(2)

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8/31/94, NTD-NRC-94-4282	WCAP-14149 (RCS-T3R-002)	-	-
8/31/94, NTD-NRC-94-4285	ADDITIONAL INFORMATION IN RESPONSE TO RAI 952.92	-	-
9/2/94, NTD-NRC-94-4283	QLR FOR OSU TESTS SB7, SB14, AND SB15	R	(2)
9/15/94, NTD-NRC-94-4229	QLR FOR CMT 100 SERIES TESTS, MT01-T2R-010	R	(2)
9/15/94, NTD-NRC-94-4288	ADDITIONAL INFORMATION TO SUPPORT RAI 952.90 RESPONSE	-	-
9/19/94, NTD-NRC-94-4299	WCAP-14169	-	-
9/21/94, NTD-NRC-94-4300	TEST DESCRIPTION REPORT OSU TEST SB9 (BLIND) LTCT-T2R-029	R	(2)
9/21/94, NTD-NRC-94-4301	QLR FOR OSU TESTS SB11 AND SB 13, LTCT-T2R-039,-031	R	(2)
9/23/94, NTD-NRC-94-4308	FISSION PRODUCT TRANSPORT CALCULATIONS	-	-
9/28/94, NTD-NRC-94-4307	WCAP-14171: <u>WC/T</u> APPLICABILITY TO LARGE BREAK LOCA	-	-
9/29/94, NTD-NRC-94-4309	APWR REFLECTOR TEMPERATURE DISTRIBUTION PLOT	-	-
10/10/94, NTD-NRC-94-4315	ERRATA TO WCAP 14135 (SEE NTD-NRC-94-4243 DATED 7/29/94)	-	-
10/12/94, NTD-NRC-94-4313	ADS PHASE B REVISED TEST MATRIX	R	(2)
10/14/94, NTD-NRC-94-4316	SPES-2 TEST 11 (BLIND), PXS-T2R-031	R	(2)
10/14/94, NTD-NRC-94-4317	QLR FOR OSU TEST LTC21, LTCT-T2R-061	R	(2)
10/14/94, NTD-NRC-94-4321	DAY OF TEST REPORT FOR SPES-2 MATRIX TEST	R	(2)
10/20/94, NTD-NRC-94-4324	QLR FOR CMT SERIES 400 MATRIX TESTS MT01-T2R-040	R	(2)
10/21/94, NTD-NRC-94-4327	PCS-GSR-006 LETTER REPORT	-	-
10/27/94, NTD-NRC-94-4318	WCAP-14190	-	-

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10/31/94, NTD-NRC-94-4330	NOTRUMP CMT PRELIMINARY V&V REPORT MT01-T2R-001	-	-
11/4/94, NTD-NRC-94-4118	ERRATA TO REV 1 OF SSAR	-	-
11/14/94, NTD-NRC-94-4345	QLR FOR SPES-2 MATRIX TEST 9	R	(2)
11/21/94, NTD-NRC-94-4346	PRESENTATION MATEFIALS FROM 11/15-17/94 MEETING	R	(5)
11/30/94, NTD-NRC-94-4348	WCAP-14206 NORTRUMP APPLICABILITY (RCS-GSR-002)	-	-
11/30/94, NTD-NRC-94-4350	WCAP-14217 CMT TEST DATA REPORT (MT01-T2R-100)	-	-
11/30/94, NTD-NRC-94-4352	LOFTRAN-AP PRELIMINARY VALIDATION REPORT (MT01-GSR-002)	R	(2)
11/30/94, NTD-NRC-94-4353	WCAP-14234 LOFTRAN APPLICABILITY (SSAR-GSC-129)	-	-
12/9/94, NTD-NRC-94-4357	INFORMATION TO SUPPORT INDEPENDENT SOIL STRUCTURE ANALYSIS	R	(2)
12/9/94, NTD-NRC-94-4358	QLR FOR SPES-2 MATRIX TEST S01512 (SPES-2 MATRIX TEST 12- BLIND)	R	(2)
12/13/94, NTD-NRC-94-4351	WCAP-14215 CMT TEST ANALYSIS	-	-
12/23/94, NTD-NRC-94-4360	QLR FOR CMT SERIES 300 SUPPLEMENTAL AND 500 SERIES MATRIX TESTS	R	(2)
1/12/95, NTD-NRC-95-4388	LONG TERM COOLING FACILITY DRAWINGS	-	-
1/12/95, NTD-NRC-95-4389	QLR FOR SPES-2 MATRIX TEST 13	R	(2)
1/13/95, NTD-NRC-95-4387	PRESENTATION MATERIALS FROM 12/20/94 MEETING	R	(5)
1/16/95, NTD-NRC-95-4392	QLR FOR SPES-2 MATRIX TEST S1703	R	(2)
1/31/95, NTD-NRC-95-4391	WCAP-14270 (OSU FACILITY SCALING REPORT)	-	-
1/31/95, NTD-NRC-95-4398	REV 2 TO AP600 PRA (SEE NTD-NRC-95-4401 DATED 2/3/95)	-	-
2/3/95, NTD-NRC-95-4401	REV 2 TO AP600 PRA (SEE NTD-NRC-95-4398 DATED 1/31/95)	-	-

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2/9/95, NTD-NRC-95-4400	AP600 MAIN STEAM LINE PS+CAEPIPE TIME HISTORY	R	(2)
2/10/95, NTD-NRC-95-4406	RESPONSE TO NRR QUESTIONS ON WC/T (SEE NTD-NRC-95-4399, 2/10/95)	-	-
2/28/95, NTD-NRC-95-4411	WC/T CMT PRELIMINARY VALIDATION REPORT (MT01-GSR-003)	-	-
3/15/95, NTD-NRC-95-4418	ADVANCE COPY OF REV 3 TO PRA & WCAP-13275 REV 1	-	-
3/24/95, NTD-NRC-95-4420	WCAP-14303 (FACILITY DESCRIPTION REPORT FOR ADS PHASE B1)	-	-
3/27/95, NTD-NRC-95-4422	MASS ENERGY TABLES FOR LST 220.1 (SEE NTD-NRC-95-4456 DATED 5/8/95)	-	-
3/30/95, NTD-NRC-95-4429	MAIN STEAM LINE ISOMETRIC DRAWINGS	NP	-
3/31/95, NTD-NRC-95-4423	WCAP-14309 SPES-2 FINAL DATA REPORT	-	-
4/3/95, NTD-NRC-95-4432	PRA INFO ON DVI LINE BREAK	-	-
4/3/95, NTD-NRC-95-4433	REV 2 TO SSAR	-	-
4/12/95, NTD-NRC-95-4437	PRESENTATION MATERIALS FROM 3/17/95 MEETING	R	(5)
4/13/95, NTD-NRC-95-4424	WCAP-14324 (ADS PHASE B1 FINAL DATA REPORT)	-	-
4/13/95, NTD-NRC-95-4425	RCS-T2R-110 ADS PHASE B1 PRELIMINARY TAR	R	(2)
4/13/95, NTD-NRC-95-4426	LOFTRAN PRELIM V&V REPORT (PXS-GSR-001)	R	(2)
4/13/95, NTD-NRC-95-4427	RCS-GSR-003 NOTRUMP PRELIMINARY ADS VALIDATION REPORT	-	-
4/13/95, NTD-NRC-95-4428	WCAP-14326- EXPERIMENTAL BASIS FOR PCCS HEAT & MASS CORRELATIONS	-	-
4/13/95, NTD-NRC-95-4436	QLR FOR OSU TEST SB23	R	(2)
4/18/95, NTD-NRC-95-4439	PRESENTATION MATERIALS FROM 4/10-11/95 MEETING	R	(5)
4/18/95, NTD-NRC-95-4440	MAAP4/RELAP COMPARISON INFORMATION	-	-

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4/24/95, NTD-NRC-95-4444	WCAP-14270 FIGURES 7-5,7-6,7-7 (SEE NTD-NRC-95-4391 DATED 1/31/95)	-	-
5/1/95, NTD-NRC-95-4449	PRESENTATION MATERIALS FROM 4/27/95 MEETING	R	(5)
5/8/95, NTD-NRC-95-4456	REVISED MASS/ENERGY TABLES FOR LST 220.1 (SEE NTD-NRC-95-4422 DATED 3/27/95)	-	-
5/8/95, NTD-NRC-95-4457	RAI 440.251 RESPONSE	-	-
5/8/95, NTD-NRC-95-4458	WCAP-14053 REV 2 SPES TEST SPECIFICATION (PXS-TIP-002)	-	-
5/15/95, NTD-NRC-95-4462	EPRI REPORT RA-93-10 9GOTHIC DESIGN REVIEW) EPRI PROPRIETARY	-	-
5/15/95, NTD-NRC-95-4463	PCS-T2R-050 LST DATA EVALUATION	-	-
5/23/95, NTD-NRC-95-4466	ORIGEN CODE OUTPUT (RAI RESPONSE 470.22)	-	-
5/26/95, NTD-NRC-95-4471	PRESENTATION MATERIALS FROM 5/25-26/95 MEETING ON LOCA BEST ESTIMATE CODES	R	(5)
5/31/95, NTD-NRC-95-4470	WCAP-14371- LOW FLOW CRITICAL HEAT FLUX DATA	-	-
6/1/95, NTD-NRC-95-4464	REV 3 TO SSAR	-	-
6/2/95, NTD-NRC-95-4467	PCS-T2C-059	-	-
6/2/95, NTD-NRC-95-4480	SSAR CHAPTER 15 PRELIMINARY MARKUP	-	-
6/5/95, NTD-NRC-95-4481	WCAP-14254 (SPES-2 TEST ANALYSIS REPORT)	-	-
6/6/95, NTD-NRC-95-4483	INPUT FOR CONFIRMATORY SASSI ANALYSIS	-	-
6/12/95, NTD-NRC-95-4486	MT01-GSR-011: NOTRUMP CMT 500 SERIES TESTS	-	-
6/13/95, NTD-NRC-95-4469	WCAP-14252 (NOTE: NON-PROPRIETARY VERSION TO BE SUBMITTED WITHIN 90 DAYS)	-	-
6/20/95, NTD-NRC-95-4489	WCAP-14382 WGOTHIC V&V REPORT	-	-

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6/23/95, NTD-NRC-95-4491	WCAP-14305 (ADS PHASE B1 TEST ANALYSIS REPORT)	-	-
6/27/95, NTD-NRC-95-4493	WCAP-14307 LOFTRAN & LOFTTR-2 FINAL V&V REPORT (SEE NTD-NRC-95-4512 DATED 7/19/95 FOR NON-PROPRIETARY VERSION (WCAP-14308))	-	-
6/30/95, NTD-NRC-95-4497	OSU TEST ANALYSIS REPORT: PRELIMINARY COPY	R	(2)
7/7/95, NTD-NRC-95-4501	NOTRUMP PRELIMINARY VALIDATION REPORT (PXS-GSR-002)	-	-
7/10/95, NTD-NRC-95-4503	CHAPTER 15 PRELIMINARY MARKUPS	-	-
7/11/95, NTD-NRC-95-4502	NOTRUMP PRELIMINARY VALIDATION FOR OSU TESTS	-	-
7/13/95, NTD-NRC-95-4506	WCAP-14425: CONFORMANCE TO INTER-SYSTEM LOCA ACCEPTANCE CRITERIA	-	-