



Westinghouse
Electric Corporation

Water Reactor
Divisions

Nuclear Technology Division

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NS-TMA-2459

June 17, 1981

Darrell G. Eisenhut
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Phillips Building
7920 Norfolk Avenue
Bethesda, MD 20014



Dear Mr. Eisenhut:

The attached Table 1 (Revision 4, Sheets 1-6) is being provided as an update for the scheduled documentation submittal dates to the NRC for the Equipment Qualification Data Packages (EQDP's) which are presently included as part of the Westinghouse Equipment Qualification Program which complies to IEEE Standards 323-74 and 344-75 and is defined in WCAP 8587. This schedule is updated periodically to reflect changes/additions in either the scheduled testing, documentation submittals or new equipment to be qualified as part of the Westinghouse program.

If you have any questions concerning this information, please contact Alex Ball (412-373-5628) or George Butterworth (412-373-5761).

Sincerely yours,

T. M. Anderson, Manager
Nuclear Safety Department

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TABLE 1(Sheet 1 of 6) Revision 4 6/10/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Safety Related Valve Electric Motor Operators	HE-1	Limitorque	CVCS SIS CCS	Limitorque Isomedix Acton	Start Complete	9-29-80 10-07-80	10-28-80 12-01-80	12-01-80 12-16-80	1-26-81 2-16-81	9-23-81
	HE-4	Limitorque	RHRS		Start Complete	9-29-80 10-07-80	10-28-80 12-01-80	12-01-80 12-16-80	1-26-81 2-16-81	7-15-81
Safety Related Solenoid Valves	HE-2	ASCO	CVCS SIS RCS	ASCO Isomedix Acton	Start Complete	10-22-80 11-14-80	2-02-81 2-13-81	12-20-80 1-30-81	4-21-81 5-19-81	7-15-81
	HE-5	ASCO	WPS SS SGBP RHR		Start Complete	10-22-80 11-14-80	2-02-81 2-13-81	12-20-80 1-30-81	4-21-81 5-19-81	7-15-81
Safety Related Externally Limit Switches	HE-3/HE-6	NAMCO	CVCS SIS CSS RHR RCS WPS SS SGBP	NAMCO ACDC Georgia Tech	Start Complete	-----	Completed	-----	-----	3-31-81 NS-TMA-2414
Pressure Transmitters Group A	ESE-1	Barton	RPS PAM	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	10-1-81
Pressure Transmitters Group B	ESE-2	Barton Veritrak	RPS PAM	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	6-16-80(B) NS-TMA-2258 3-31-81(V) NS-TMA-2418
Differential Pressure Group A	ESE-3	Barton	RPS PAM	W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	10-1-81
Differential Pressure Transmitter Group B	ESE-4	Barton Veritrak	PAM RPS	W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	6-16-81(B) NS-TMA-2259 3-31-81(V) NS-TMA-2419
Resistance Temperature Detector (RC-Bypass)	ESE-5	RdF	RPS	W-Forest Hills W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Start Complete	-----	Completed	-----	-----	3-31-81 NS-TMA-2424

TABLE 1 (Sheet 2 of 6) Revision 4 6/10/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Resistance Temperature Detector (Well-mounted)	ESE-6	RdF	PAMS	W-Forest Hills W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Start Complete	-----	Completed	-----	-----	3-31-81 NS-TMA-2425
Resistance Temperature Detectors (Fast response)	ESE-7	RdF	RPS	W-Forest Hills W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Start Complete	-----	Completed	-----	-----	3-31-80 NS-TMA-2420
2 Section Excore Neutron Detector (Power Range)	ESE-8	W-IGTD	RPS	W-IGTD W-AESD W-Forest Hills	Start Complete	3-06-81 5-19-81	5-20-81 5-23-81	7-06-81 8-06-81	8-10-81 9-10-81	10-30-81
Excore Neutron Detectors (Source)	ESE-9(2)	W-IGTD	RPS	W-Forest Hills W-AESD W-IGTD	Start Complete	-----	1st Quarter 1982	-----	-----	2nd Quarter 1982
Nuclear Instrumentation System (NIS)	ESE-10(1)	W-ID	RPS	W-AESD W-ID	Start Complete	-----	Completed	-----	-----	6-16-80 NS-TMA-2257
Source Range Preamplifier (Outside Containment)	ESE-11(2)	W-ID	RPS	W-Forest Hills W-AESD W-ID	Start Complete	-----	1st Quarter 1982	-----	-----	2nd Quarter 1982
Main Control Board Switch Modules	ESE-12	Electroswitch W-1SD(OIM)	RPS ESF	W-AESD	Start Complete	-----	Not Scheduled	-----	-----	
Process Protection System	ESE-13	W-1SD	RPS	W-AESD	Start Complete	-----	Completed	-----	-----	1-28-81 NS-TMA-2380
Indicators	ESE-14	W-RID	PAM	W-AESD	Start Complete	-----	Completed	-----	-----	1-26-81 NS-TMA-2373
Recorders	ESE-15	W-CID	PAM	W-AESD	Start Complete	-----	Completed	-----	-----	6-16-80 NS-TMA-2260
Solid State Protection System & Safeguard Test Cabinet (2 Train)	ESE-16	W-ID	RPS ESF	W-AESD W-ID	Start Complete	-----	Completed	-----	-----	1-16-81 NS-TMA-2368

TABLE 1 (Sheet 3 of 6) Revision 4 6/10/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Solid State Protection System & Safeguard Test Cabinet (3 Trains)	ESE-17	W-ID	RPS ESF	W-AESD W-ID	Start Complete	----- Completed	----- Completed	----- -----	----- -----	3rd Quarter 1981
Instrument Bus Power Supply (Static Inverter) 7.5 KVA	ESE-18	W-PED	Electrical Power Supply	W-AESD	Start Complete	----- Completed	----- Completed	----- -----	----- -----	7-31-80 NS-TMA-2280
Instrument Bus Distribution Panel 7.5 KVA	ESE-19	W-PED	Electrical Power Supply	W-AESD	Start Complete	----- Completed	----- Completed	----- -----	----- -----	1-26-81 NS-TMA-2372
Reactor Trip Switch gear	ESE-20	W-LVSD	RPS	W-AESD	Start Complete	----- Completed	----- Completed	----- -----	----- -----	9-30-80 NS-TMA-2309
Pressure Sensor	ESE-21	Barton	RPS PAMS	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	----- Completed	----- Completed	----- -----	----- -----	7-31-81
4 Section Excore Neutron Detector	ESE-22	W-IGTD	RPS	W-IGTD W-AESD W-Forest Hills	Start Complete	----- Completed	----- Completed	----- -----	----- -----	7-22-81
Loop Stop Value Cabinet	ESE-23	W-ID	RPS	Analysis Only	Start Complete	----- -----	Not Scheduled	----- -----	----- -----	
RCP Speed Sensor	ESE-24	W-ISD Electro Corp.	RPS	W-ISD	Start Complete	----- -----	Not Scheduled	----- -----	----- -----	
Main Control Board	ESE-25(5)	W-CID	RPS ESF PAM	W-AESD	Start Complete	----- -----	----- -----	----- -----	----- -----	
Reactor Trip Switch gear	ESE-26	W-LVSD	RPS	W-AESD	Start Complete	----- -----	Not Scheduled	----- -----	----- -----	
Nitrogen-16 Detector	ESE-27	W-IGTD	RPS	W-IGTD W-AESD	Start Complete	6-10-81 6-30-81	7-2-81 7-8-81	8-15-81 8-30-81	9-1-81 10-1-81	12-2-81
Rod Position Detector	ESE-28(3)	Productos Electronicos, Inc. Puerto Rico	RPS	W-AESD W-R&D	Start Complete	----- -----	Not Scheduled	----- -----	----- -----	
Rod Position Data Cabinet	ESE-29(3)	W-ID	RPS	W-AESD	Start Complete	----- -----	Not Scheduled	----- -----	----- -----	

TABLE i (Sheet 4 of 6) Revision 4 6/10/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Integrated Protection Cabinet	ESE-30(3)	W-ISD	RPS	W-AESD W-ISD	Start Complete	-----	Not Scheduled	-----		
Integrated Logic Cabinet	ESE-31(3)	W-ISD	RPS	W-AESD W-ISD	Start Complete	-----	Not Scheduled	-----		
Field Termination Cabinet	ESE-32(3)	W-ISD	RPS	W-AESD	Start Complete	-----	Not Scheduled	-----		
Instrument Bus Distribution Panel	ESE-33(3)	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----		
Instrument Bus Distribution Panel	ESE-34(3)	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----		
Instrument Power Supply	ESE-35(3)	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----		
Source Range Preamplifier (In-Containment)	ESE-36(3)	W-ID	RPS	W-Forest Hills W-AESD	Start Complete	-----	Not Scheduled	-----		
PAMS Demultiplexer	ESE-37(3)	W-ISD	PAM	W-AESD	Start Complete	-----	Not Scheduled	-----		
Control Board Multiplexer	ESE-38(3)	W-ISD	RPS ESF	W-AESD	Start Complete	-----	Not Scheduled	-----		
Fiber Optic Cable	ESE-39(3)	W-ISD Siemens Amphenol	RPS	W-ISD	Start Complete	-----	Not Scheduled	-----		
Differential Pressure Indicating Switch Group B	ESE-40	Barton	RHR mini-Flow	W-AESD	Start Complete	-----	Completed	-----	7-15-81	
Microprocessor	ESE-41(4)				Start Complete	-----	Not Scheduled	-----		
Resistance Temperature Detector (RVLIS Impulse Line Temperature)	ESE-42(4)				Start Complete	-----	Not Scheduled	-----		

TABLE 1 (Sheet 5 of 6) Revision 4 6/10/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location	Start Complete	Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Incore Thermocouples	ESE-43(4)				Start Complete	-----	Not Scheduled	-----		
Incore Thermocouple Reference Junction Box	ESE-44(4)				Start Complete	-----	Not Scheduled	-----		
Acoustic Leak Monitor Sensor	ESE-45(4)				Start Complete	-----	Not Scheduled	-----		
TMI Instrumentation: Remote Displays	ESE-46(4)				Start Complete	-----	Not Scheduled	-----		
Incore Thermocouple Connectors	ESE-47(4)				Start Complete	-----	Not Scheduled	-----		
Safety Related Pump Motors	AE-1(Medium)	W-MM&G		W-AESD ISOMEDIX W-R&D	Start Complete	-----	Completed	-----		7-15-81
	AE-2(Large)	W-LMD Buffalo	CVCS EBS SIS RHRS CCWS CSS	W-AESD ISOMEDIX	Start Complete	-----	Completed	-----		3-21-81 NS-TMA-2412
	AE-3(Canned)	Chempump		W-AESD Lockheed Permagrain	Start Complete	-----	Completed	-----		3-31-81 NS-TMA-2413
	AE-4(EBS)	WEIR		---	Start Complete	-----	Not Scheduled	-----		
Hydrogen Recombiner	SP-1	W-Sturtevant		W-AESD W-Canada Inc.	Start Complete	-----	Completed	-----		Accepted NRC LTR 6-22-78

TABLE 1 (Sheet 6 of 6) Revision 4 6/10/81

Component Aging Program - Phase I Results - Appendix A1 -----

3-31-81
NS-TMA-2421

Materials Aging Program - Appendix A2 -----

3-31-81
NS-TMA-2422

- (1) Boron dilution fix requires qualification of the source range drawer. Testing will be completed by the 4th quarter 1981. Qualification Report will be revised the 1st quarter 1982.
- (2) This effort also addresses the Boron dilution fix as number 9B.
- (3) This equipment is applicable to 414 type plants.
- (4) Equipment for Post TMI Instrumentation.
- (5) Control Board qualification is on specific licensing applications. Westinghouse will not submit documentation to the NRC under the Generic '74 Program. This documentation will be submitted by the applicant.

NOTES:

CVCS = Chemical Volume Control System
 SIS = Safety Injection System
 WPS = Waste Processing System
 SGBP = Steam Generator Blowdown (Waste) Processing (System)
 RHR = Residual Heat Removal (System)
 PAM = Post Accident Monitoring
 CCWS = Component Cooling Water System

RPS = Reactor Protection System
 ESF = Engineered Safeguard Feature
 RCS = Reactor Coolant System
 SS = Sampling System
 CSS = Containment Spray System
 EBS = Emergency Boration System