



Westinghouse  
Electric Corporation

Water Reactor  
Divisions

NS-TMA-2439

Nuclear Technology Division

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



Dear Mr. Eisenhut:

The attached Table 1 (Revision 3, 5 sheets) provides an update of the scheduled documentation submittal dates to the NRC for the Equipment Qualification Data Packages (EQDP's) which are included in the Westinghouse Equipment Qualification Program as defined in WCAP-8587. This schedule is updated periodically to reflect changes in either the scheduled testing or documentation submittal dates for equipment in the Westinghouse Program.

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

Sincerely yours,

T. M. Anderson, Manager  
Nuclear Safety Department

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TABLE 1 (Sheet 5 of 5) Revision 3 4/15/81

Equipment	W-LOQP Reference	Manufacturer	System	Test Location	Scheduled Testing				Scheduled Documentation Submittal to the NRC
					Thermal Aging	Radiation	Seismic	HELB	
Incore Thermo-couples/Connectors and Reference Junction Box (Temperature Compensation)	ESE-44								
Safety Related Pump Motors	AE-1(Medium)	W-MM&G		W-AESD ISOMEDIX W-R&D	Start Complete	4th Quarter 1980 2nd Quarter 1981			5-30-81
	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
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 addresses the Boron dilution fix.
- (3) This equipment is applicable to 414 type plants.

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

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

CCWS = Component Cooling Water System

TABLE 1 (Sheet 4 of 5) Revision 3 4/15/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location	Start Complete	Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Integrated Protection Cabinet	ESE-30(3)	W-ISO	RPS	W-AESD W-ISO	Start Complete	-----	Not Scheduled	-----		
Integrated Logic Cabinet	ESE-31(3)	W-ISO	RPS	W-AESD W-ISO	Start Complete	-----	Not Scheduled	-----		
Field Termination Cabinet	ESE-32(3)	W-ISO	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 Preamp (In-Containment)	ESE-36	W-ID	RPS	W-Forest Hills W-AESD	Start Complete	-----	4th Quarter 1981	-----	3-30-82	
PAMS Demultiplexer	ESE-37(3)	W-ISO	PAM	W-AESD	Start Complete	-----	Not Scheduled	-----		
Control Board Multiplexer	ESE-38(3)	W-ISO	RPS ESF	W-AESD	Start Complete	-----	Not Scheduled	-----		
Fiber Optic Cable	ESE-39(3)	W-ISO Siemens Amphenol	RPS	W-ISO	Start Complete	-----	Not Scheduled	-----		
Differential Pressure Indicating Switch Group B	ESE-40	Barton	RHR Mini-Flow	W-AESD	Start Complete	-----	Completed	-----	6-15-81	
RVLIS Micro-processor	ESE-41				Start Complete	-----	Not Scheduled	-----		
RVLIS High Volume Electronic Isolator/High Volume Sensor	ESE-42				Start Complete	-----	Not Scheduled	-----		
Core Cooling System Micro-processor	ESE-43				Start Complete	-----	Not Scheduled	-----		

TABLE 1 (Sheet 3 of 5) Revision 3 4/15/81

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	_____	_____	2nd Quarter 1981
Instrument Bus Power Supply (Static Inverter) 7.5 KVA	ESE-18	W-PED	Electrical Power Supply	W-AESD	Start Complete	_____	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	_____	_____	1-26-81 NS-TMA-2372
Reactor Trip Switch gear	ESE-20	W-LVSD	RPS	W-AESD	Start Complete	_____	Completed	_____	_____	9-30-80 NS-TMA-2309
Pressure Sensor	ESE-21	Barton	RPS PAMS	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	7-22-80 11-15-81	12-09-81 12-15-81	4-02-81 4-16-81	4-23-81 5-09-81	6-30-81
4 Section Excore Neutron Detector	ESE-22	W-IGTD	RPS	W-IGTD W-AESD W-Forest Hills	Start Complete	8-20-80 9-15-80	9-20-80 10-05-80	12-01-80 12-31-80	2-02-81 2-06-81	4-30-81
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	W-CID	RPS ESF PAM	W-AESD	Start Complete	_____	3rd Quarter 1980	_____	_____	6-12-81
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	9-15-80 10-01-80	10-05-80 10-18-80	10-22-80 11-05-80	4-15-81 4-18-81	7-31-81
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 1 (Sheet 2 of 5) Revision 3 4/15/81

Equipment	W-EQDP Reference	Manufacturer	System	Test Location	Start	Complete	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 Preamp (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-ISD(OIM)	RPS ESF	W-AESD	Start	Complete	_____	Not Scheduled	_____	_____	
Process Protection System	ESE-13	W-ISD	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

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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	CCS 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	9-23-81
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	6-01-81
	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	6-01-81
Safety Related Externally Limit Switches	HE-3	NAMCO	CVCS SIS CSS RHR RCS	NAMCO ACDC Georgia Tech	Start Complete	_____	Completed	_____	_____	3-31-81 NS-TMA-2414
	HE-6	NAMCO	WPS SS SGBP		Start Complete	_____	Completed	_____	_____	6-30-81
Pressure Transmitters Group A	ESE-1	Barton	RPS PAM	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	7-22-80 1-15-81	2-09-81 2-15-81	3-01-81 3-15-81	4-09-81 4-29-81	6-30-81
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	7-22-80 1-15-81	2-09-81 2-15-81	3-01-81 3-15-81	4-09-81 4-29-81	6-30-81
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