



Westinghouse
Electric Corporation

Water Reactor
Divisions

Nuclear Technology Division

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NS-TMA-2346

November 26, 1980

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 1) provides 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. As agreed by Mr. Zoltan Rosztoczy and his Staff in a meeting on November 7, 1980, this information is being supplied in parallel to Mr. G. Holt of Oak Ridge National Laboratory.

Also included in this transmittal, Table 2, is the listing of equipment and EQDP's which are applicable as part of the qualification program for the Comanche Peak project.

If you have any further questions concerning this information, please contact me.

Sincerely yours,

T.M. Anderson
T. M. Anderson, Manager
Nuclear Safety Department

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TABLE 1 (Sheet 1 of 4) Revision 1 11/17/80

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 & 4	Limatorque	CVCS SIS CCS RHRS	Limatorque Isomedix Acton	Start	9-29-80	10-28-80	12-01-80	12-16-80	3-23-81
					Complete	10-07-80	12-01-80	12-16-80	2-08-81	
Safety Related Solenoid Valves	HE-2 & 5	ASCO	CVCS SIS RCS WPS SS SGBP RHR	ASCO Isomedix Acton	Start	10-22-80	11-28-80	12-20-80	2-08-81	5-01-81
					Complete	11-14-80	12-20-80	02-08-81	3-21-81	
Safety Related Externally Limit Switches	HE-3	NAMCO	CVCS SIS CSS RHR RCS	NAMCO ACDC Georgia Tech	Start	10-06-80	10-27-80	11-21-80	12-08-80	3-31-81
					Complete	10-21-80	11-21-80	12-05-80	1-31-81	
	HE-6	NAMCO	WPS SS SGBP		Start	10-06-80	10-27-80	11-21-81	12-08-80	3-31-81
					Complete	10-21-80	11-21-81	12-05-80	1-31-81	
Pressure Transmitters Group A	ESE-1	Barton	RPS PAM	Barton W-Forest Hills W-AESD ISOMEDIX	Start	7-22-80	12-01-80	1-10-81	2-10-81	3-31-81
					Complete	11-15-80	12-31-80	2-01-81	3-01-81	
Pressure Transmitters Group B	ESE-2	Barton	RPS PAM	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	6-16-80 NS-TMA-2258
Differential Pressure Group A	ESE-3	Barton	RPS PAM	W-Forest Hills W-AESD ISOMEDIX	Start	7-22-80	12-01-80	1-10-81	2-10-81	3-31-81
					Complete	11-15-80	12-31-80	2-01-81	3-01-81	
Differential Pressure Transmitter Group B	ESE-4	Barton	PAM RPS	W-Forest Hills W-AESD ISOMEDIX	Start Complete	-----	Completed	-----	-----	6-16-81 NS-TMA-2259
Resistance Temperature Detector (BC-Bypass)	ESE-5	RdF	RPS	W-Forest Hills W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Start	5-19-80	6-27-80	9-24-80	11-01-80	12-31-80
					Complete	6-13-80	7-23-80	10-22-80	11-20-80	
Resistance Temperature Detector (Well-mounted)	ESE-6	RdF	PAMS	W-Forest Hills W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Start	5-19-80	6-27-80	9-24-80	11-01-80	12-31-80
					Complete	6-13-80	7-13-80	10-22-80	11-20-80	

TABLE 1 (Sheet 2 of 4) Revision 1 11/17/80

Equipment	W-EQDP Reference	Manufacturer	System	Test Location	Start	Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HEIB	
Resistance Temperature Detectors (Fast response)	ESE-7	RdF	RPS	W-Forest Hills	Start	5-19-80	6-27-80	9-24-80	11-01-80	12-31-80
				W-AESD ISOMEDIX SURGICUT Univ. of Buffalo	Complete	6-13-80	7-13-80	10-22-80	11-20-80	
Excure Neutron Detectors (Source)	ESE-9**	W-IGTD	RPS	W-Forest Hills W-AESD W-IGTD	Start Complete	4th Quarter 1981				1st Quarter 1982
Nuclear Instrumentation System (NIS)	ESE-10*	W-ID	RPS	W-AESD W-ID	Start Complete	Completed				6-16-80 NS-TMA-2257
Source Range Preamplifier (Outside Containment)	ESE-11**	W-ID	RPS	W-Forest Hills W-AESD W-ID	Start Complete	4th Quarter 1981				1st Quarter 1982
Main Control Board Switch Modules	ESE-12	Electroswitch	RPS ESF	W-AESD	Start Complete	1st Quarter 1981				4-10-81
Process Protection System	ESE-13	W-ISD	RPS	W-AESD	Start Complete	N/A	N/A	11-30-80 12-05-80	N/A	12-30-80
Indicators	ESE-14	W-RID	PAM	W-AESD	Start Complete	N/A	N/A	5-01-80 8-01-80	N/A	12-30-80
Recorders	ESE-15	W-CID	PAM	W-AESD	Start Complete	N/A	N/A	8-01-79 10-10-79	N/A	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				12-30-80
Solid State Protection System & Safeguard Test Cabinet (3 Trains)	ESE-17	W-ID	RPS ESF	W-AESD W-ID	Start Complete	Completed				3-30-81
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				3-30-81

TABLE 1 (Sheet 3 of 4) Revision 1 11/17/80

Equipment	W-EQOP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HELB	
Reactor Trip Switch gear	ESE-20	W-LVSD	RPS	W-AESD	Start Complete	-----	Completed	-----	-----	9-30-80 NS-1MA-2309
Pressure Sensor	ESE-21	Barton	RPS PAMS	Barton W-Forest Hills W-AESD ISOMEDIX	Start Complete	7-22-80 11--80	12-01-80 12-31-80	1-10-81 2-01-81	2-10-81 3-01-81	3-31-81
4 Section Excore Neutron Detector	ESE-22	W-IGTD	RPS	W-IGTD W-AESD	Start Complete	8-20-80 9-15-80	9-20-80 10-05-80	12-01-80 12-31-80	1-0-81 2-01-81	2-16-81
Loop Stop Value Cabinet	ESE-23	W-ID	RPS	Analysis Only	Start Complete	-----	Not Scheduled	-----	-----	
RCP Speed Sensor	ESE-24	W-ISO Electro Corp.	RPS	W-ISO	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	11-10-80 12-01-80	1-30-81
Rod Position Detector	ESE-28	Productos Electronicos, Inc. Puerto Rico	RPS	W-AESD W-R&D	Start Complete	-----	Not Scheduled	-----	-----	
Rod Position Data Cabinet	ESE-29	W-ID	RPS	W-AESD	Start Complete	-----	Not Scheduled	-----	-----	
Integrated Protection Cabinet	ESE-30	W-ISO	RPS	W-AESD W-ISO	Start Complete	-----	3rd Quarter 1981	-----	-----	12-30-81
Integrated Logic Cabinet	ESE-31	W-ISO	RPS	W-AESD W-ISO	Start Complete	-----	3rd Quarter 1981	-----	-----	12-30-81
Field Termination Cabinet	ESE-32	W-ISO	RPS	W-AESD	Start Complete	-----	Not Scheduled	-----	-----	
Instrument Bus Distribution Panel	ESE-33	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----	-----	
Instrument Bus Distribution Panel	ESE-34	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----	-----	

TABLE 1 (Sheet 4 of 4) Revision 1 11/17/80

Equipment	W-EQDP Reference	Manufacturer	System	Test Location		Scheduled Testing				Scheduled Documentation Submittal to the NRC
						Thermal Aging	Radiation	Seismic	HEIB	
Instrument Power Supply	ESE-35	W-AESD	Electrical Power Supply	W-AESD	Start Complete	-----	Not Scheduled	-----		
Source Range Preampifier (In-Containment)	ESE-36	W-ID	RPS	W-Forest Hills W-AESD	Start Complete	-----	4th Quarter 1981	-----		3-30-82
PAMS Demultiplexer	ESE-37	W-1SD	PAM	W-AESD	Start Complete	-----	Not Scheduled	-----		
Control Board Multiplexer	ESE-38	W-1SD	RPS ESF	W-AESD	Start Complete	-----	Not Scheduled	-----		
Fiber Optic Cable	ESE-39	W-1SD Siemens Amphenol	RPS	W-1SD	Start Complete	-----	Not Scheduled	-----		
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	-----	3rd Quarter 1980 1st Quarter 1981	-----		3-30-81
	AE-3(Canned)	Chempump		W-AESD Lockheed Permagrain	Start Complete	-----	1978 1st Quarter 1981	-----		3-30-81
	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
Aging Program - Phase I Results										3-30-81

*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.

**This effort addresses the Boron dilution fix.

NOTES:

CVCS = Chemical Volume Control System
 SIS = Safety Injection System
 WPS = Waste Processing System
 SGBP = Steam Generator Blowdown (Waste) Processing (System)
 RHRS = 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
 ERS = Emergency Boration System

Equipment which is applicable on part of the
EQDP program for Comanche Peak

Safety Related Valve Electric Motor Operators	HE-1 & 4	<u>X</u>	Source Range Preamplifier (Outside Containment)	ESE-11	<u>X</u>	Rod Position Detector	ESE-28	<u> </u>
Safety Related Solenoid Valves	HE-2 & 5	<u>X</u>	Main Control board Switch Modules	ESE-12	<u> </u>	Rod Position Data Cabinet	ESE-29	<u> </u>
Safety Related Externally Limit Switches	HE-3	<u>X</u>	Process Protection System	ESE-13	<u>X</u>	Integrated Protection Cabinet	ESE-30	<u> </u>
			Indicators	ESE-14	<u>X</u>	Integrated Logic Cabinet	ESE-31	<u> </u>
			Recorders	ESE-15	<u>X</u>	Field Termination Cabinet	ESE-32	<u> </u>
	HE-6	<u>X</u>	Solid State Protection System & Safeguard Test Cabinet (2 Train)	ESE-16	<u>X</u>	Instrument Bus Distribution Panel	ESE-33	<u> </u>
Pressure Transmitters Group A	ESE-1	<u>X</u>	Solid State Protection System & Safeguard Test Cabinet (3 Trains)	ESE-17	<u> </u>	Instrument Bus Distribution Panel	ESE-34	<u> </u>
Pressure Transmitters Group B	ESE-2	<u>X</u>	Instrument Bus Power Supply (Static Inverter) 7.5 KVA	ESE-18	<u>X</u>	Instrument Power Supply	ESE-35	<u> </u>
Differential Pressure Group A	ESE-3	<u>X</u>	Instrument Bus Distribution Panel 7.5 KVA	ESE-19	<u> </u>	Source Range Preamplifier (In-Containment)	ESE-36	<u> </u>
Differential Pressure Transmitter Group B	ESE-4	<u>X</u>	Reactor Trip Switch gear	ESE-20	<u>X</u>	PAMS Demultiplexer	ESE-37	<u> </u>
Resistance Temperature Detector (BC-Bypass)	ESE-5	<u> </u>	Pressure Sensor	ESE-21	<u>X</u>	Control Board Multiplexer	ESE-38	<u> </u>
Resistance Temperature Detector (Well-mounted)	ESE-6	<u>X</u>	4 Section Excore Neutron Detector	ESE-22	<u>X</u>	Fiber Optic Cable	ESE-39	<u> </u>
Resistance Temperature Detectors (Fast response)	ESE-7	<u>X</u>	Loop Stop Valve Cabinet	ESE-23	<u> </u>	Safety Related Pump Motors	AE-1(Medium)	<u> </u>
Excore Neutron Detectors (Source)	ESE-9	<u>X</u>	RCP Speed Sensor	ESE-24	<u> </u>	Hydrogen Recombiner	SP-1	<u> </u>
Nuclear Instrumentation System (NIS)	ESE-10	<u>X</u>	Main Control Board	ESE-25	<u> </u>			
			Reactor Trip Switch gear	ESE-26	<u> </u>			
			Nitrogen-16 Detector	ESE-27	<u>X</u>			

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