

Westinghouse  
Electric Corporation

Water Reactor  
Divisions

Zoltan R. Rosztoczy, Chief  
Equipment Qualification Branch  
Division of Engineering  
7920 Norfolk Avenue  
Bethesda, MD 20014

Date	DEC 30 1980
Per	
Act.	
Subject	
cc	
Clerk	

Nuclear Technology Division  
Box 355  
Pittsburgh Pennsylvania 15220  
NS-TMA-2319  
October 3, 1980

Dear Mr. Rosztoczy:

In recent months we have expressed to you some concern over the handling of Westinghouse proprietary information relating to equipment qualification, particularly in view of the fact that the NRC is now employing external consultants to review Utility responses on this issue. May I thank you for the prompt action you took, following your recent conversation with George Butterworth of my staff, in reminding your Staff and the external consultants of the conditions under which Westinghouse agreed to the review of proprietary information by the external consultants.

You indicated some difficulty in establishing the applicability of Westinghouse qualification documentation to the various plants currently involved in responding to the Staff on the qualification issue. As a result, Westinghouse agreed to provide you with a listing of qualification documentation, indicating plant applicability. The attached tables provide the requested information, subject to the following notes of clarification:

- Plants in Table 2 can employ the qualification references contained in Table 1.
- The qualification references are only valid for equipment supplied to the plants identified in the attached tables. Furthermore, the qualification references are only applicable to that equipment which the Utilities, in their responses to IE Bulletin 79-018 and NUREG-0588, identify as having been supplied by Westinghouse Water Reactor Division.


In a few limited cases, we have, at the specific request of a Utility, confirmed that some of the qualification data generated under the Westinghouse Supplemental Program (Table 2) is applicable to equipment supplied to earlier plants (Table 1). Furthermore, as a result of our continuing efforts to help the Utilities to respond to NRC requirements concerning equipment qualification, we anticipate that we will establish

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the applicability of Westinghouse qualification data to similar equipment supplied by other Westinghouse divisions and even other vendors. In such cases, Westinghouse will supply the Utility with a letter stating the applicability of additional Westinghouse qualification data to equipment installed in the plant.

Should you have any questions concerning the attached information, please feel free to contact Mr. George Butterworth or Mr. Dave Rawlins of my staff.

  
T. M. Anderson, Manager  
Nuclear Safety Department

GB/keg  
Attachment(s)



Table 1

Environmental Qualification Reports - Early Operating Plants

Plants	Report No.	Ref. No.	Equipment
Plants <u>not</u> committed to Westinghouse Supplemental Qualification Program:	WCAP-7410 Vol.1 WCAP-7744 Vol.1	1	Process Instrumentation Valve Motor Operators
San Onofre Surry 1 and 2 Conn Yankee Yankee-Rowe Point Beach 1 and 2 Kewaunee H. B. Robinson 2 Zion 1 and 2 Turkey Point 3 and 4 Prairie Island 1 and 2 Robert E. Ginna	WCAP-7410 Vol.2 WCAP-7744 Vol.2  WCAP-7336-L WCAP-7343-L WCAP-9003 WCAP-9001	2  3 4 5 6	Reactor Fan Cooler Motor Hydrogen Combustion System Electric Cables and Splices  Reactor Fan Cooler Motor Reactor Fan Cooler Motor Reactor Fan Cooler Motor Hydrogen Flame Recombiner

Note: WCAP-7354-L "Supplier Post-Accident Testing of Process Instrumentation", July 1969 was withdrawn by the author and superceded by WCAP-7410.

### Table 1 References

#### Reference

1. J. Locante, "Topical Report Environmental Testing of Engineered Safety Features Related Equipment (NSSS-Standard Scope)" WCAP-7410-L Volume I (Proprietary) WCAP-7744 Volume I (Non-Proprietary), December, 1970.
2. J. Locante, "Topical Report Environmental Testing of Engineered Safety Features Related Equipment (NSSS-Standard Scope)" WCAP-7410-L Volume II (Proprietary) WCAP-7744 Volume II (Non-Proprietary).
3. W. L. Boettinger, "Topical Report Reactor Containment Fan Cooler Cooling Test Coil" WCAP 7336-L (Proprietary), July, 1969.
4. J. Locante, "Topical Report Irradiation Testing of Reactor Containment Fan Cooler Motor Insulation" WCAP 7343-L (Proprietary) June, 1969.
5. C. V. Fields, "Fan Cooler Motor Unit Test" WCAP-9003 (Proprietary) January, 1969.
6. J. D. McAdoo, R. Frummerman, "A Controlled Combustion System to Prevent Hydrogen Accumulation Following a Loss of Coolant Accident" WCAP-9001 (Proprietary) February, 1969.



Table 2

Environmental Qualification Reports - Supplemental Program Plants

Plants.	Report/ Letter No.	Ref. No.	Equipment
Plants committed to Westinghouse Supplemental Qualification Program:	NS-CE-692	1	Valve Motor Operators
	NS-CE-756	2	
	NS-CE-847	3	
Indian Point 2 and 3			
Beaver Valley 1 and 2			
Trojan	NS-CE-755	4	Valve Accessory Solenoids
Diablo Canyon 1 and 2	<i>For</i> WCAP-7929	5	Reactor Fan Cooler Motor
Salem 1 and 2	NS-CE-728	6	
Sequoyah 1 and 2			
McGuire 1 and 2	NS-CE-1009	7	
North Anna 1 and 2			
Farley 1 and 2			
D.C. Cook 1 and 2	NS-CE-719	8	Process Instrumentation
Watts Bar 1 and 2			
Virgil C. Summer	WCAP-8541	9	
Catawba 1 and 2			
Shearon Harris 1 to 4	WCAP-9157	10	
Alvin W. Vogtle 1 and 2	WCAP-9211		
Millstone 3			
Jamesport 1 and 2	NS-CE-1384	11	Barton (Prototype) Transmitters
	NS-CE-1950	12	Barton (Lot 1) Transmitters
	NS-TMA-2120	13	
	NS-TMA-2184	14	Barton (Lot 2) Transmitters
	NS-TMA-2248	15	
	WCAP-7820 and Supplements 1 to 4	16	Electric Hydrogen Recombine
	<i>HR</i> WCAP-7709 and Supplements 1 to 4		
	WCAP-9347	17	
	WCAP-9346		
	WCAP-8754	18	Pump Motors



## Table 2 References

### Reference

1. Westinghouse Letter Number NS-CE-692, C. Eicheldinger to D. B. Vassallo, dated July 10, 1975.
2. Westinghouse Letter Number NS-CE-756, C. Eicheldinger to D. B. Vassallo, dated August 15, 1975.
3. Westinghouse Letter Number NS-CE-847, C. Eicheldinger to D. B. Vassallo, dated November 24, 1975.
4. Westinghouse Letter Number NS-CE-755, C. Eicheldinger to D. B. Vassallo, dated August 15, 1975.
5. C. V. Fields, "Fan Cooler Motor Unit Test" WCAP-7929 (Non-Proprietary), April, 1972.
6. Westinghouse Letter Number NS-CE-728, C. Eicheldinger to D. B. Vassallo, dated August 1, 1975.
7. Westinghouse Letter Number NS-CE-1009, C. Eicheldinger to D. B. Vassallo, dated March 31, 1976.
8. Westinghouse Letter Number NS-CE-719, C. Eicheldinger to D. B. Vassallo, dated July 25, 1975.
9. R. A. Kraszewski, R. B. Miller, "Topical Report Seismic and Environmental Testing of Foxboro Transmitters", WCAP-8541 (Non-Proprietary), July, 1975.
10. A. E. Allis, R. B. Miller, "Environmental Qualification of Safety-Related Class 1E Process Instrumentation" WCAP-9157 (Proprietary) WCAP-9211 (Non-Proprietary), September, 1977.
11. Westinghouse Letter Number NS-CE-1384 C. Eicheldinger to J. F. Stolz, dated March 23, 1977.
12. Westinghouse Letter Number NS-TMA-1950, T. M. Anderson to J. F. Stolz, dated September 29, 1978.
13. Westinghouse Letter Number NS-TMA-2120, T. M. Anderson to J. F. Stolz, dated September 14, 1979.
14. Westinghouse Letter Number NS-TMA-2184, T. M. Anderson to J. F. Stolz, dated December 21, 1979.
15. Westinghouse Letter Number NS-TMA-2248, T. M. Anderson to J. F. Stolz, dated May 21, 1980.



16. J. F. Wilson, "Electrical Hydrogen Recombiners for PWR Containments" WCAP-7709 and Supplements 1 through 4 (Proprietary) WCAP-7820 and Supplements 1 through 4 (Non-Proprietary), May, 1972.
17. J. F. Wilson, "Qualification Testing for Model 8 Electric Hydrogen Recombiner" WCAP-9346 (Proprietary) WCAP-9347 (Non-Proprietary), July, 1978.
18. "Environmental Qualification of Class 1E Motors for Nuclear Out-of Containment Use" WCAP-8754, June, 1976.

Table 3

Environmental Qualification Reports - Westinghouse Program to IEEE 323-1974

Plants	Report No.	Ref. No.	Equipment
SNUPPS (All Units) Byron 1 and 2 Braidwood 1 and 2 Marble Hill 1 and 2 South Texas 1 and 2 Seabrook 1 and 2 Comanche Peak 1 and 2	WCAP-7820 and Supplements 5 to 7  WCAP-7709 and Supplements 5 to 7	1	Electric Hydrogen Recombine
	WCAP-8587 and Supplements 1 and 2  WCAP-8687 and Supplement 2	2	All Westinghouse WRD Supplied Safety-Related Electrical Equipment

### Table 3 References

#### Reference

1. J. F. Wilson, "Electric Hydrogen Recombiner for PWR Containments"  
WCAP-7709 Supplements 5 through 7 (Proprietary) WCAP-7820  
Supplements 5 through 7 (Non-Proprietary), December, 1975.
2. G. Butterworth, R. B. Miller, "Methodology for Qualifying  
Westinghouse WRD Supplied NSSS Safety Related Electrical Equipment"  
WCAP-8587, Supplement 1 and 2 (Non-Proprietary), WCAP-8687  
Supplement 2 (Proprietary).

