



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

Enclosure 2

FEB 28 1985

MEMORANDUM FOR: Albert Schwencer, Chief  
Licensing Branch No. 2  
Division of Licensing

FROM: Vincent S. Noonan, Chief  
Equipment Qualification Branch  
Division of Engineering

SUBJECT: ENVIRONMENTAL QUALIFICATION AUDIT OF THE EQUIPMENT  
QUALIFICATION FILES FOR RIVER BEND STATION

Plant Name: River Bend Station  
Docket No.: 50-458  
Licensing Stage: OL Applicant  
Responsible Branch: Licensing Branch No. 2  
Project Manager: E. Weinkam  
Review Status: Review Continuing

During the week of January 28 thru February 1, 1985, the NRC staff and its consultants from EG&G Idaho Audited the equipment qualification files of River Bend Station. The staff and its consultants audited a total of 12 files that contained qualification information for equipment located in a potentially harsh environment. As a result of the audit, the following are observations and comments made by the staff and its consultants at an exit interview held at River Bend Station on January 31, 1985 (list of attendees attached).

1. A description of the River Bend Station (RBS) maintenance and surveillance program for all equipment within the scope of 10 CFR 50.49 must be included in the equipment qualification (EQ) submittal.
2. Some parameters of concern were reviewed but were not documented by the reviewer (e.g. leakage current on conax penetrations). The applicant must review RBS entire EQ program to assure that all parameters of concern are adequately tested, meets the requirements of RBS, and are properly documented in accordance with the requirements of 10 CFR 50.49.
3. Qualification by similarity is unacceptable if the similarity analyses does not meet the requirements of paragraph (f) of 10 CFR 50.49. The applicant must review the RBS EQ program to identify all equipment qualified by similarity, and assure that qualification of the identified equipment is in compliance with the requirements of 10 CFR 50.49(f).

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4. The test reports did not always identify the tested equipment adequately, so the applicability of the test report to plant equipment could not be established in all files audited. The applicant must review the RBS EQ program to assure that an auditable link has been established between plant equipment and tested equipment.

The following comments are specific to individual Summary Reference Numbers (SRN) as indicated. However, the applicants must update all files to incorporate these comments where applicable.

(SRN-241211-1) Conax Electrical Penetration

There is no evidence in the file to indicate that a review of leakage current has been conducted. The applicant committed to acquire leakage current data, review it for acceptability and include it in EQ files.

(SRN-228212-1) Limitorque Valve Actuator (inside containment)

Aging calculations did not include abnormal temperature transients due to a loss of off site power. The applicant committed to establish a generic procedure for qualified life determination in this event. This procedure must be included in the updated Environmental Qualification Document (EDQ) scheduled for submittal to the NRC in February 1985. Applicant must also notify the staff that the grease relief valves on these valve actuators are installed correctly.

(SRN-228212-2) Limitorque Valve Actuator (outside containment with paramount motors)

The applicant attempted qualification by two methods. The first method attempted to establish similarity between the installed paramount motor and a tested motor by another manufacturer. This approach is inadequate to demonstrate similarity. The second method relied on a test report that had insufficient data to show that a paramount motor was actually tested. This was also considered inadequate. The applicant committed to demonstrate proper qualification or replace the actuators.

(SRN-228218-3) Asco Solenoid Valve

During the plant walkdown it was found that the Asco valve inspected may not be installed in accordance with the manufactureres recommendations. Applicant must obtain installation instructions applicable to explosion proof valves and verify proper installation.

(SRN-247481-1) Rosemount Transmitters

System component evaluation work (SCEW) sheets must be updated to reflect pressure and temperature indicated in test report. Accuracy requirements on SCEW sheet must be updated to include the actual specified and demonstrated accuracies calculated for station requirements and demonstrated by analyses.

(SRN-247411-2) Mercury/Buchanan Terminal Boards

An auditable link between the test report and terminal boards must be established.

In addition to the six files noted above, the following were also audited.

SRN-247529-2 Endevco Primary Position Element  
SRN-241240-1 Okonite 600V Control Cable  
SRN-237160-1 Westinghouse Pump Motor  
SRN-211161-1 Power Systems Division, Hydrogen Igniter Assembly  
SRN-S05B Namco Limit Switch  
SRN-S05A Shaffer MSIV Actuator

Our evaluation of the applicant's EQ program, including the results of the audit, will be provided as input to a future SER Supplement.

*Robert S. Grange for*  
Vincent S. Noonan, Chief  
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EQ Section

NRC EQ EXIT MEETING  
1/31/85

<u>Name</u>	<u>Company</u>
Rick King	GSU
William G. Culp	SWEC
John Fehringer	NRC/INEL
Harold Walker	NRC
Richard Borgen	NRC/INEL
Arie Blum	SWEC
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Jim Deddens	GSU V.P.
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P. F. Tomlinson	GSU Dir. OQA
Laszlo Illy	SWEC
William T. Tucker	SWEC
Leo Waldron	SWEC
Ashok Bhuta	SWEC
R. B. Stafford	GSU
Joe Booty	SWEC
John Hamilton	GSU
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