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NOV 23 1973

Wisconsin Public Service Corporation
ATTN: Mr. E. W. James, Vice-President
Power Generation & Engineering
P. O. Box 1200
Green Bay, Wisconsin 54305

Docket No. 50-305

Gentlemen:

Thank you for your letter dated November 9, 1973, which forwarded a report pursuant to 10 CFR 50.55(e). Your report will be reviewed and evaluated and, should we require additional information concerning this matter, we will contact you.

Your cooperation concerning this matter is appreciated.

Sincerely,

J. G. D.

John G. Davis, Deputy Director
for Field Operations
Directorate of Regulatory Operations

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OFFICE	RO:FS/EB	RO:FS/EB,C	RO:DD/FO			Misc.
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WISCONSIN PUBLIC SERVICE CORPORATION

P.O. Box 1200, Green Bay, Wisconsin 54305

November 9, 1973

Dr. D. F. Knuth, Director
Directorate of Regulatory Operations
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Dr. Knuth:

Subject: Docket 50-305
Kewaunee Nuclear Power Plant
4 Kv Circuit Breakers

Per requirements of AEC Regulation 10 CFR 50.55(e), we submit the following:

Introduction

This letter is an interim report and follow-up to our correspondences of August 30, September 11 and October 9, 1973, in which we described the cracking of the switch housings in the 4160 volt breakers and the subsequent corrective action that was taken to repair the switches.

On October 18, we verbally informed Region III that during subsequent inspections of the breakers, we noticed additional cracking of the switch housings. On October 19, we also informed Region III that some cable harnesses were rubbing against a mounting bracket causing some scuffing of the cable insulation; and the breakage of some plastic tie-down straps which are used to hold the cable harness against the secondary contact probe insertion mechanism causing additional slack in the cable harness.

A. Description of the Switch Housing Problem

As reported in our letter of August 30, 1973, cracks were discovered in the 4160 volt switchgear stationary breaker switches.

During subsequent inspection, a reoccurrence of cracking of the switch housing was discovered and the manufacturer was again called in to further examine the problem and to initiate final corrective action. This was reported verbally to Region III on October 18.

Mail appd.

Corrective Action

New switches are being installed in forty-seven (47) breakers. The switch linkage is being given a final field realignment to prevent overtravel, thereby eliminating the overstressing of the switch housing. Upon completion, the switches will be tested to verify circuit continuity and proper operability. This action should resolve the breaker switch problem. In addition, a preventive maintenance program is being established which will allow for inspection of the breaker switches every 60 days.

B. Description of Cable Scuffing Problem

During the subsequent inspection mentioned above, cable scuffing was noticed in some breakers and the manufacturer was asked to evaluate this problem. The cable scuffing was caused by the cable harness rubbing against a mounting bracket. Since the harnesses vary in the amount of slack available, the problem was not observed in all breakers. In addition, the plastic tie-down straps on the harness were being interfered with on the secondary contact probe insertion mechanism; this allowed additional slack in the harness, thereby tending to aggravate the cable scuffing problem. This was reported verbally to Region III on October 19.

The repair and replacement is presently underway and completion of the work should in no way interfere or delay other activities at the plant.

Corrective Action

The cable scuffing problem is being resolved by the replacement of the scuffed cables in the harnesses and improved control during reassembly to provide sufficient slack for proper operability and to eliminate the rubbing of the cables on the mounting bracket. In addition, a new tie-down method is being used to mount the cable harness to the insertion mechanism to eliminate interference and further cable scuffing.

C. Safety Implications

The breakers, during the test program, have been exercised in excess of the number of cycles which they will be subjected to during the remainder of plant design life. In no case did the breakers fail to perform their function even though the above problems were identified.

We believe that the breakers would have operated properly and to assure proper functioning in the future, we are correcting the problems discussed above and we will perform periodic inspections of the breakers.

A final report will be prepared upon completion of the work.

Very truly yours,

C. W. Giesler
for

E. W. James, Senior Vice-President
Power Generation & Engineering

EWJ:sna

cc - Mr. James G. Keppler, Region III