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ACCESSION NBR:8403130188 DOC.DATE: 84/03/08 NOTARIZED: NO DOCKET # FACIL:50=305 Kewaunee Nuclear Power Plant, Wisconsin Public Service 05000305 AUTH.NAME: AUTHOR AFFILIATION GIESLER.C.W. Wisconsin Public Service Corp. RECIP.NAME: RECIPIENT AFFILIATION DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Provides info to support review of proposed Amend 58 to License DPR-43.Attached table provides comparison of calculated voltages.Agreement shown between calculated measured voltages & currents.

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WISCONSIN PUBLIC SERVICE CORPORATION



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

March 8, 1984

Dr. Harold R. Denton, Director Office of Nuclear Reactor Regulation U. S. Nuclear Regulatory Commission Washington, D.C. 20555

Gentlemen:

Docket 50-305 Operating License DPR-43 Kewaunee Nuclear Power Plant Second Level Undervoltage Technical Specificatións

Reference: Proposed Amendment 58 to the KNPP Technical Specifications Submitted February 22, 1984 by letter from C. W. Giesler to Dr. H. R. Denton

This letter provides information to support your review of Proposed Amendment 58 to the KNPP technical specifications. It is provided in response to a request made by your staff during a telephone conference on March 1, 1984.

The attached table provides a comparison of calculated voltages and currents determined by the load flow program mentioned in the above reference against measured voltages and currents at various points in the engineered safeguards electrical distribution system at KNPP during plant operation.

These results show excellent agreement between calculated and measured voltages and currents; the maximum error on the former is less than 1% in all cases. Based on these results, we have concluded that the ability of our load-flow program to accurately calculate voltages at various locations in the ESF electrical system has been confirmed, and this program is appropriate for use in determining the undervoltage setpoints on the ESF buses.

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PDR ADOCK 05000305

PDR

Very truly yours,

C. W. Giesler Vice President - Nuclear Power

CAS/js Attach. cc - Mr. S. A. Varga, US NRC Mr. Robert Nelson, US NRC

CALCULATED VERSUS MEASURED SAFEGUARD BUS VOLTAGES AND CURRENTS

Bus Namè	Calculated Voltage	Measured Voltage	Ratio (<u>Calculated</u>) Measured	Calculated Current	Measured Current	Ratio (<u>Calculated</u>) Measured
Bus 1-5	4243	4244	1.000	127.9	133.5	. 958
Bus 1-51 Bus 1-52	486 478	486 481	1.000 .994	56.5	60	.942
MCC1-52A MCC1-52B MCC1-52C MCC1-52D MCC1-52E MCC1-52F BRA-105	477 477 476 476 475 474 204	478.7 477.2 479.1 478.1 476.5 475.7	.996 1.000 .994 .996 .997 .996	39.0 35.4 73.4 21.6 121.6 96.0	41.5 36.5 71.8 21.4 119.0 94.9	.939 .970 1.022 1.009 1.022 1.012
Bus 1-6	4284	205.8 4277	.991 1.002	76.2	73.8	1.033
Bus 1-61 Bus 1-62	488 486	484 489	1.008 .994	69.9	65	1.075
MCC1-62A MCC1-62B MCC1-62C MCC1-62D MCC1-62E MCC1-62J MCC1-62G MCC1-62H MCC1-5262	485 486 485 484 485 485 474 485 486	486.1 NA 486.2 483.5 484.4 484.8 473.1 484.8 486.1	.998 NA .998 1.001 1.001 1.000 1.002 1.000 1.000	28.1 0.0 62.7 22.9 67.1 23.6 208.4 0.0 12.6	28.6 NA 63.6 23.1 64.9 23.4 209.6 0.0 13.5	.983 NA .986 .991 1.034 1.009 .994 1.000 .933
BRB-105	208	209.0	. 99 5	31.7	32.1	. 99 8