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 AUTH. NAME AUTHOR AFFILIATION  
 MATHEWS, E.R. Wisconsin Public Service Corp.  
 RECIP. NAME RECIPIENT AFFILIATION  
 VARGA, S.A. Operating Reactors Branch 1

SUBJECT: Forwards table listing time delay relays for undervoltage protection logic per request.

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## WISCONSIN PUBLIC SERVICE CORPORATION



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



February 8, 1982

Mr. S. A. Varga, Chief  
Operating Reactors Branch #1  
Division of Licensing  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Dear Mr. Varga:

Docket 50-305  
Operating License DPR-43  
Kewaunee Nuclear Power Plant  
Degraded Grid Voltage

This letter is provided at the request of our Project Manager and the technical reviewers for degraded grid voltage concerns to submit technical information regarding the time delay relays used in the undervoltage protection logic at the Kewaunee Nuclear Power Plant. Specifically, information regarding the setpoints and their tolerances has been requested. The attached table provides that information.

Very truly yours,

A handwritten signature in cursive script, appearing to read "E. R. Mathews".

E. R. Mathews  
Senior Vice President  
Power Supply & Engineering

snf

Attach.

cc - Mr. Robert Nelson, US NRC

A015  
S.11

# TIME DELAY RELAYS

## KNPP Undervoltage Protection Logic

<u>No. of Relays</u>	<u>Tech Spec Required Setting</u>	<u>Nominal Setting</u> <sup>(3)</sup>	<u>Allowed Tolerance</u> <sup>(3)</sup>
2/Bus	$\leq 2.5 \text{ sec}$ <sup>(1)</sup>	1 sec	$\pm 0.5 \text{ sec}$ <sup>(5)</sup>
2/Bus	Not Applicable	6 sec	$\pm 0.5 \text{ sec}$
1/Bus	$\leq 5 \text{ min}$ <sup>(2)</sup>	4 min <sup>(4)</sup>	30 sec <sup>(4)</sup>

- Notes:
1. Technical Specification Table TS 3.5-1, item 9.
  2. Proposed Technical Specification Amendment 29b, Table TS 3.5-1, item 10, submitted February 1, 1982.
  3. Reference Surveillance Procedure SP-39-009.
  4. Nominal settings for five-minute TDR are based on quoted manufacturers specifications since relay has not been received yet. These settings may change based on experience.
  5. The tolerance for the 2.5 sec TDR was erroneously reported as  $\pm 0.2$  seconds in our letter of November 30, 1981 from E. R. Mathews to S. A. Varga.

Attachment to Letter  
E. R. Mathews (WPS) to  
S. A. Varga (NRC)  
2/8/82