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 STEINHARDT,C.R. Wisconsin Public Service Corp.
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SUBJECT: Informs of change to plant AMSAC design mod.

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December 23, 1988

10 CFR 50.62

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Gentlemen:

Docket 50-305
Operating License DPR-43
Kewaunee Nuclear Power Plant
TAC #59105
AMSAC Design Modification

References: 1) Letter from D. C. Hintz to US NRC dated May 6, 1988
2) Letter from J. G. Giitter to D. C. Hintz dated August 25, 1988

This letter is to inform you of a change to the Kewaunee Nuclear Power Plant (KNPP) AMSAC design as described in reference 1. The change consists of adding one actuation/isolation relay to ensure electrical separation between safety-related trains of equipment. This modification does not affect the design's compliance with 10 CFR 50.62, and in fact will more conservatively implement the electrical separation bases of the NRC's Safety Evaluation for the KNPP AMSAC design (reference 2).

Maintaining electrical separation is one of the main criteria whenever safety-related systems are modified at the KNPP. During independent reviews of the KNPP AMSAC design the use of one output relay to actuate two trains of safety-related equipment was questioned. The design used separate contacts on the actuation/isolation relay to actuate the two safeguard trains with contact separation providing the electrical train separation. In order to establish completely independent electrical separation we have elected to modify the KNPP AMSAC design and add a second actuation/isolation relay. This arrangement dedicates one relay to "A" train output signals and one relay to the single "B" train output signal ("B" Auxiliary Feedwater Pump Start).

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The new configuration for the KNPP AMSAC design is shown on the attached Logic Diagram (Attachment 1) and Simplified Two-Wire Diagram (Attachment 2). These diagrams are modifications of diagrams which were submitted with reference 1. All other aspects of the KNPP AMSAC design, as described in reference 1, remain unchanged. All testing described in reference 1 for the AMSAC Actuation/Isolation Relay applies to both Actuation/Isolation Relays.

The purpose of this letter is to notify you of a change to the submitted and approved KNPP AMSAC design. As this change does not affect the design's compliance with 10 CFR 50.62, it is our understanding that it also does not alter the bases or conclusions of reference 2, and is therefore acceptable and does not require NRC review.

Sincerely,



C. R. Steinhardt
Manager - Nuclear Power

PEM/jms

Attach.

cc - Mr. Robert Nelson, US NRC
US NRC, Region III

Attachment 1

To

Letter from C. R. Steinhardt (WPSC)

To

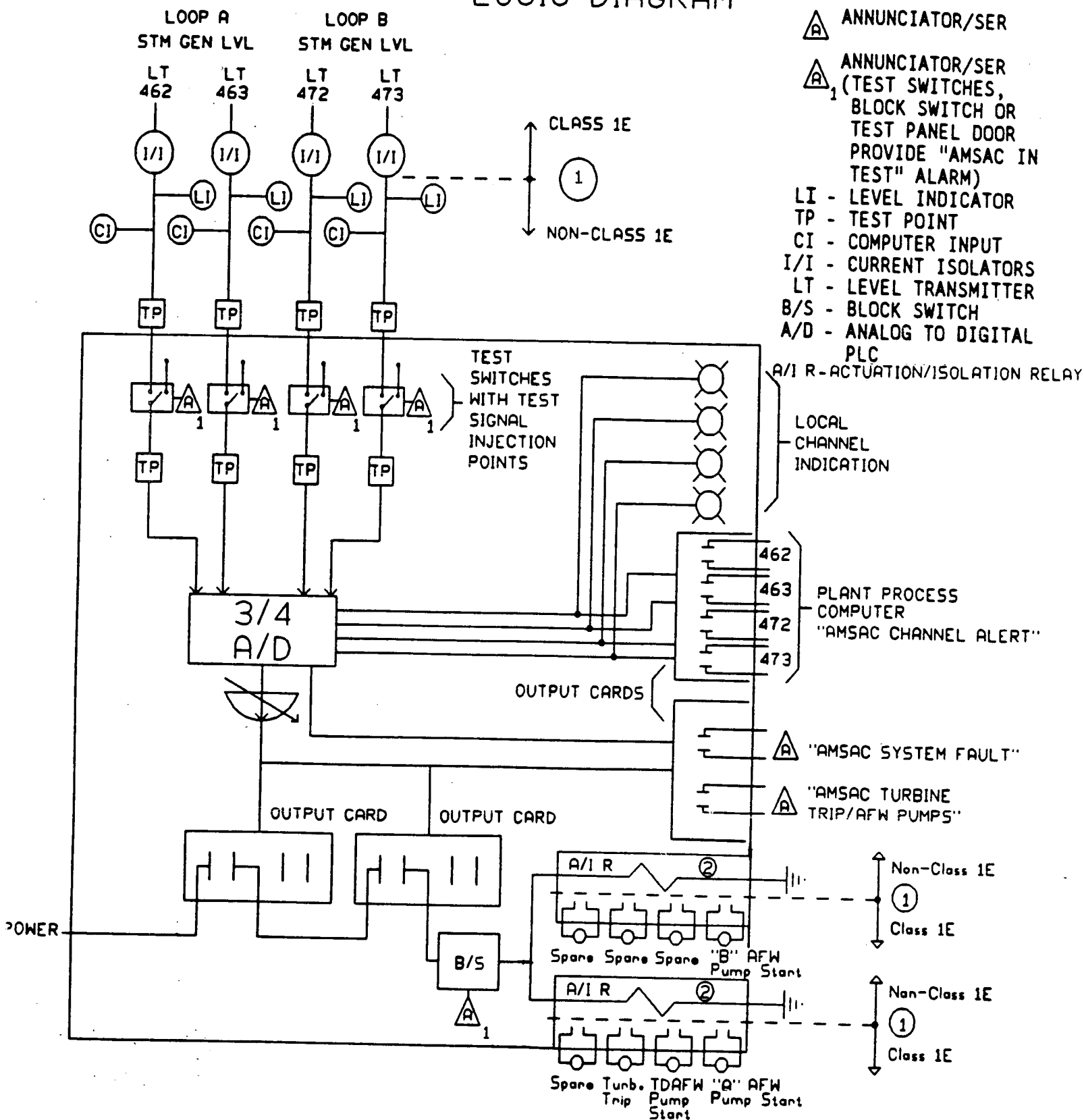
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Dated

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LOGIC DIAGRAM

LOGIC DIAGRAM



① THE CLASS 1E/NON-1E INTERFACE ISOLATION DEVICES ARE THE CURRENT ISOLATORS AND THE ACTUATION/ISOLATION RELAY.

② THE ACTUATION/ISOLATION RELAY COIL IS POWERED FROM A NON-CLASS 1E SOURCE. THE ACTUATION/ISOLATION RELAY CONTACTS ARE PART OF CLASS 1E ACTUATION CIRCUITS.

Attachment 2

To

Letter from C. R. Steinhardt (WPSC)

To

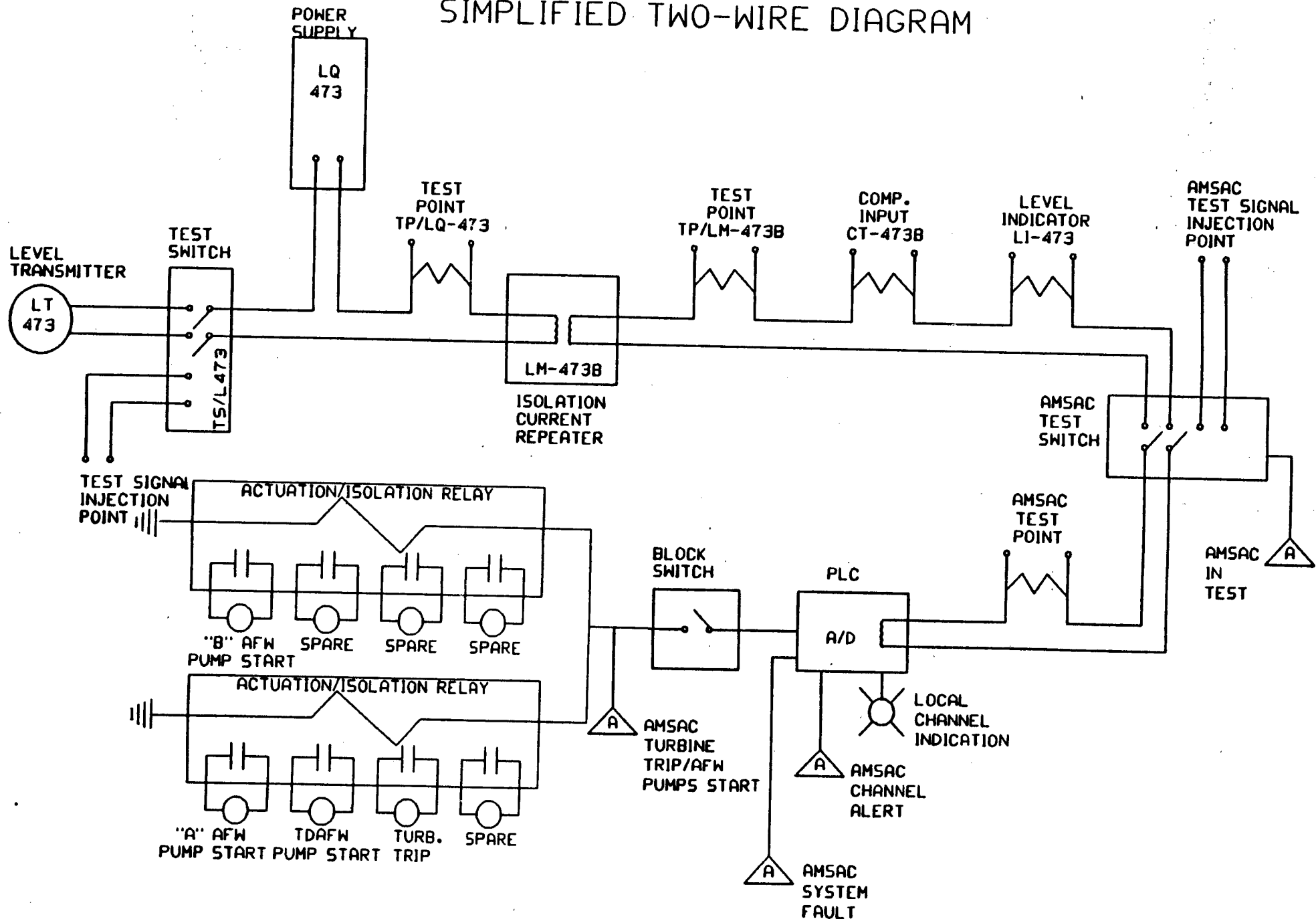
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SIMPLIFIED TWO-WIRE DIAGRAM

SIMPLIFIED TWO-WIRE DIAGRAM

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December 23, 1988

Note: THIS IS A SIMPLIFIED TWO-WIRE DIAGRAM WHICH ONLY SHOWS ONE TYPICAL LEVEL TRANSMITTER LOOP GOING INTO THE PLC. THIS HAS BEEN DONE FOR EXPLANATORY PURPOSES. IN ACTUALITY THERE ARE FOUR LEVEL TRANSMITTER LOOPS GOING INTO THE PLC AND A THREE OF FOUR COINCIDENCE IS REQUIRED FOR AMSAC ACTUATION.