



ELMA ENGINEERING

ELECTRO-MAGNETIC EQUIPMENT, TRANSFORMERS
SOLID STATE CONTROL, INDUCTION HEATING AND TEST SYSTEMS

1066 EAST MEADOW CIRCLE, PALO ALTO, CALIFORNIA 94303
PHONE (415) 494-7303, TELEX 345-560

March 29, 1985

Mr. J. G. Hufnagel
PHILADELPHIA ELECTRIC COMPANY
2301 Market Street
Philadelphia, PA 19101

Reference: Your Purchase Order BW-342773
Elma Job No. 5601
Your Purchase Order BW-321143
Elma Job No. 5616

Dear Mr. Hufnagel:

During a recent audit of documentation files at Elma, which included records on the power supplies provided to Philadelphia Electric Company on the subject purchase orders, it was determined that the test data on file is inconclusive as to whether the units were operating within specifications at the time they were shipped from our factory. The units in question bear the serial numbers 560101, purchased under your P.O. BW-342773, and 561601, 561602, 561603, and 561604, purchased under your P. O. BW-321143.

Specifically, acceptance criteria for voltage regulation on these units require that the output voltage be within 23.5 VDC and 28.0 VDC when the supplies are loaded 20% to 100% of rated output and the input voltage varies from 102 VAC to 127 VAC. On the units in question, the test data sheets have recorded output voltages lower than 23.5 VDC at 90 VAC input, but within the acceptance range of output (23.5 to 28.0 VDC) at 108, 115, and 132 VAC inputs. The test data sheets do not record actual output voltage at 102 VAC input.

We wish to emphasize that there is no evidence in the existing test documentation that these units were operating outside of specified limits at the time of tests made at our factory, nor do we reasonably believe that the units are currently operating outside of specifications. This

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notification made under NRC 10 CFR Part 21 is to alert you that our test data on file is inconclusive as to whether the output voltage is within 23.5 VDC and 28.0 VDC at 102 VAC input, and output load between 20% and 100% of full rating.

We recommend that these five (5) units be checked for voltage regulation. This can be performed simply on site. Or, if you prefer, we will re-test the units at our factory and re-certify the results under our standard warranty, which provides for factory labor free of charge, but incoming and outgoing freight to be prepaid by the customer.

Sincerely,



Thomas A. Beno
Vice President, QA Manager

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cc: Mr. Robert Oller
U. S. Nuclear Regulatory Commission
Division of QA Safeguards & Inspection Programs
Office of Inspection and Enforcement
Washington, DC 20555