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 EISENHUT, D.G. Division of Licensing

SUBJECT: Notifies that util has scheduled terminal block qualification test at Wyle Labs, in response to NRC 801001 ltr re environ qualification of safety-related equipment. Tests will incorporate aged & tested terminal block samples.

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JANUARY 10, 1906.

REPORT OF THE
COMMISSIONER OF THE LAND OFFICE
FOR THE YEAR 1905.

ALBANY: JAMES B. LEECH, STATE PRINTER, 1906.

THE
LAND OFFICE
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Washington Public Power Supply System

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G02-81-249

August 20, 1981



Mr. D. G. Eisenhut, Director
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

Subject: SUPPLY SYSTEM NUCLEAR PROJECT NO. 2
ENVIRONMENTAL QUALIFICATION TEST RESULTS

Reference: Letter, D. G. Eisenhut to all Licensees, etc.,
"Environmental Qualification of Safety-Related
Equipment," dated October 1, 1980.

The Supply System has tentatively scheduled a terminal block qualification test at Wyle Laboratories. A kick off meeting to discuss the technical aspects of the proposed test is tentatively scheduled for the week of September 14, 1981. This test is going to be conducted jointly with Weidmuller Terminations, Inc., and will incorporate previously aged and tested terminal block test samples. The terminal blocks are being qualified for use inside primary containment at our Nuclear Project No. Two (WNP-2).

The cognizant contact for further information relative to test schedule is Mr. J. E. Rhoads. Mr. Rhoads may be reached at (509) 372-5271.

Please address all formal communications to my attention.

Very truly yours,

James L. Baird
for G. D. BOUCHEY, Director
Nuclear Safety

GDB/CJZ/jpt

cc: A. Bennett, NRC

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PROPOSED TEST OUTLINE

I. INTRODUCTION

This test plan will use previously aged and tested terminal blocks supplied by Weidmuller Terminations Inc. These terminal blocks will be subjected to an extended temperature/humidity/pressure test as outlined below. This test will be an extension of a twenty-nine (29) hour LOCA performed by Weidmuller. All engineering and qualification plan development will be done by the Supply System and Weidmuller. The test lab will perform the testing functions.

II. DESCRIPTION OF TEST ITEMS

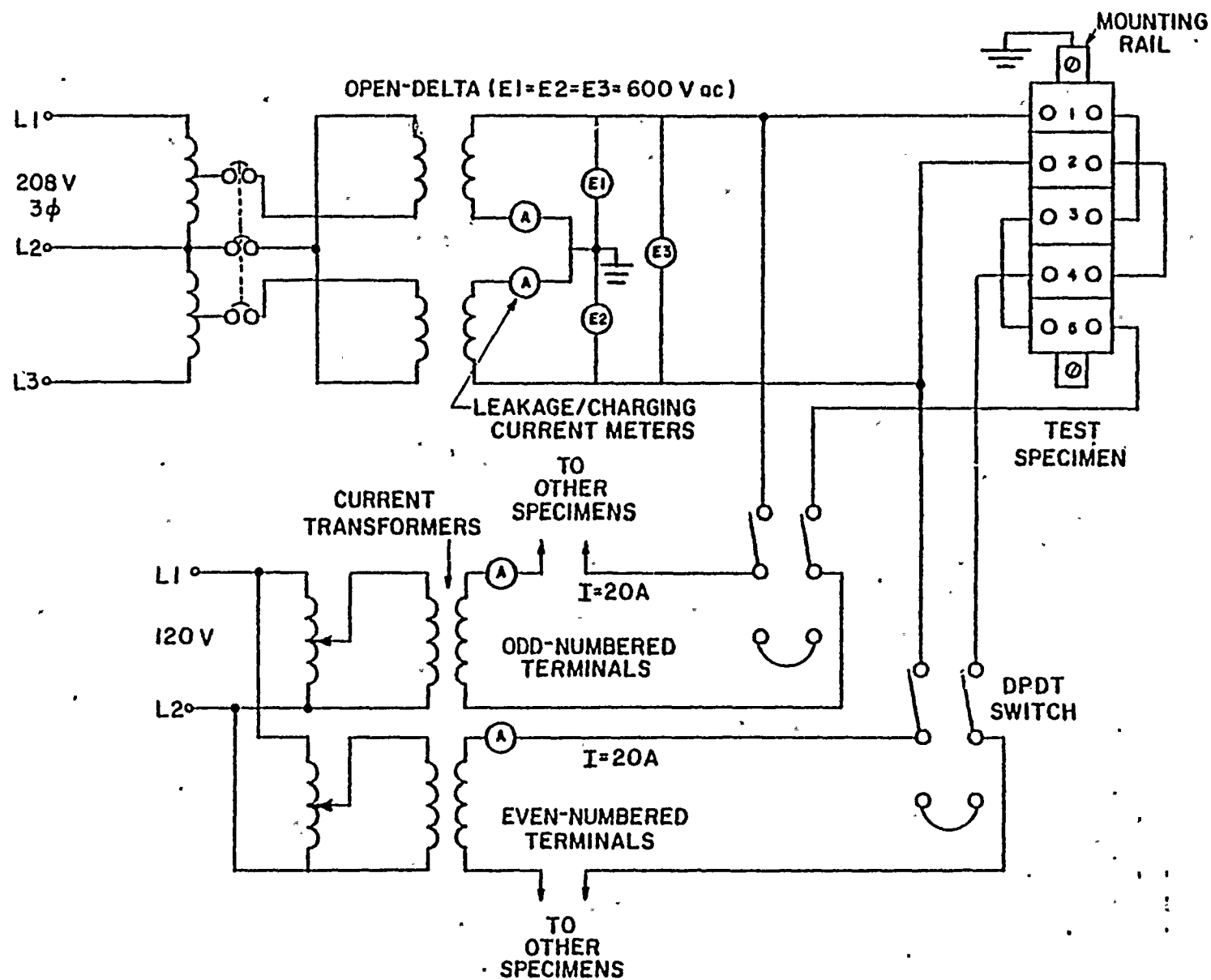
The terminal blocks are a glass filled phenolic 1.57 inches wide by 2.03 inches high and variable thickness depending on the model used. The terminal blocks will be mounted in NEMA 4 type enclosures with a weep hole in the bottom to allow condensate drainage. The enclosures are approximately 6 inches by 8 inches by 4 inches. There will be between one (1) and three (3) enclosures used in the test. Test leads of adequate length to reach the outside of the test chamber will be connected to the terminal blocks. All splices are to be made outside the test chamber; no splices will be allowed inside the test chamber.

III. PROPOSED TEST SEQUENCE

The following outline is a description of the extended test program.

1. A receipt inspection is performed to determine if the test items were damaged during shipment.
2. A baseline functional is performed. This test consists of an insulation resistance measurement at 500V DC between adjacent terminals and between each terminal and ground.
3. The test specimens are installed in an environmental chamber and the test leads connected as shown in Figure 1.
4. A baseline functional is performed as outlined in Step 2.
5. The terminal boards are energized to 600V AC and 20A as in Figure 1.
6. The terminal boards and enclosures will be subjected to steam at 215°F and 30 psig for 40 days. Demineralized water spray as recommended in IEEE-323-1974 Appendix A, Table A2 will be initiated as soon as chamber temperature and pressure have been stabilized and will be activated periodically throughout the test. The specimens will be monitored for leakage current every half hour as will be the chamber temperature and pressure (data logger).

7. After the completion of the test, the chamber is opened and allowed to cool and dry for at least 24 hours. Step 2 is repeated at the completion of the test and after the 24 hour cooldown period.
8. Remove specimens from the test chamber and perform a visual inspection similar to Step 1.



Schematic of Electrical Energizing Circuits

Figure 1

