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ENVIRONMENTAL/RELIABILITY ENGINEERING

TEST REPORT

5100 (5200L) DESIGN REVIEW COMMENTS

ENGINEERING RELEASED

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ATARI INTEROFFICE MEMO

TO: GHEE MUNOZ
FROM: GIL SEYMOUR

SUBJECT: 5100 (5200L) DESIGN REVIEW COMMENTS (C024673-155)

PRODUCT SPECIFICATIONS (5200L)

1. 4.3.0.0 Targeted MTBF was based on what assumptions? Identify the targeted MTBF at 25 degrees C.

2. 5.2.2.3 Power input accepts 117 VAC nominal not 110 VAC.

3. 2.2.0.0 Controlled Documents
   Add 16K X 4 EIT D-RAM specification 5C21534.

PRODUCT SAFETY

1. Does a product safety evaluation report exist? We need an O.K. from product safety on the 5200L product.

PROTECTION AGAINST CONSOLE FAILURE AND POTENTIAL PRODUCT LIABILITY WHEN AN INCORRECT A.C. POWER ADAPTOR IS UTILIZED.

An acceptable solution to the problem is a series power diode, 3 amp NR500. The diode has its cathode at the 47uf capacitor and its anode at the power input point such that the device functions as a half wave rectifier.

A.C. Power Adaptor Impact: (C017945)

1. No power adaptor failure.
2. No console component failure.
3. No T.V. operation.
4. No product liability or component failure.

D.C. Power Adaptor Impact: (C020475-404)

1. The additional voltage drop of the diode still allows for adequate margin at low line inputs.
2. Console and power adaptor function properly.

cc: K. Ashton
    G. Kuczynski

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