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Mealstream EC501 (Series 5) CTM3 240V 60Hz Letter of Correspondence

21 January 2003

American Telecommunications Certification Body, Inc
6731 Whittier Avenue
Suite C110
McLean, VA 22101

To Whom It May Concern:

RE: Class II Amendment to Existing Certification
FCC ID: PCVCTM3246015A

Please be advised that the following information is a list of modifications that will be included in the production process for the above-referenced equipment since equipment authorization was granted. Please also note that many of the changes are identical to those evaluated for the 208 Volt, 60Hz variant PCVCTM3206015A Class II permissive change.

1. Change of Magnetron type from Sanyo 2M219H (30Z0264) to Panasonic 2M244 (30Z1171). To overcome obsolescence of Sanyo part.
2. Change turns ratio of High Voltage Transformer: 240V model Part No. changes from 30Z0992 to 30Z1191.
3. Change High Voltage Capacitor (30Z1065) voltage rating from 2300V to 2500V (30Z0681).
4. Addition of two High Voltage Rectifiers (30Z0939) each in series with existing rectifier of same type and resistor and now mounted on a small Printed Circuit Board (11M0325).
5. Inclusion of Opto-Triac (30Z1189) in parallel with one of the two series connected relay switch contacts in the heater control circuit. To increase electro-mechanical switch contact life.
6. Inclusion of thermal overheat switch sensor to monitor Opto-Triac.
7. Change of Printed Circuit Board part number to incorporate Opto-Triac change.
8. Hardware update to control heater relay switch contacts.
9. Incorporation of Class I modifications previously notified to the ATCB.
10. Include RFI filters associated with the Magnetrons to provide greater compatibility between the variants, in terms of performance and manufacture. Filters are identical to those used on the 208V version.

Full EMC testing was repeated on the 208V variant, PCVCTM3206015A, and the amendments were evaluated by the ATCB and a modified grant dated "12/19/2002" was issued.

The modifications that were successfully evaluated for the 208V variant have been applied to the 240V variant, the only differences between models being the High Voltage Transformer "T1 & T2" fitted by the magnetrons and the Mains Transformer "T1" fitted to the relay board 40C1104. The design parameters of the High Voltage Transformers ensure the same drive conditions are applied to the Magnetron for both versions. The same relay board 40C1104 is used for both options and when assembled for 240V use becomes identified as "11C0403", the 208V option being, "11C0402", the only difference in the assembly being transformer "T1". Both variants have identical potential sources of RF emissions (for example, system clocks and identical magnetrons having identical drive conditions).

Having considered the close similarities explained above and correspondence with Timothy R Johnson in December 2002, it was considered reasonable to assume the radiated data will be similar for both 208V and 240V versions. Therefore we are supplying radiated emission test data from the 208V unit in support of the compliance for the 240V version (See EMC Projects Test report No. P3478/2).

However, since conducted emissions could be altered because of the voltage difference at the input of the unit, Merrychef have commissioned EMC Projects Limited to retest the conducted emissions of the 240V variant and issue a corresponding test report which will be uploaded once available.

Yours sincerely

Paul Harrison
Approvals Engineer