



## Merrychef Limited

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### Mealstream EC501 (Series 5) CTM3 208V 60Hz Letter of Correspondence

27 November 2002

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: PCVCTM3206015A and 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.

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 (30Z1139, 208V model; 30Z1191, 240V model).
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.

Whilst many of the changes proposed can be considered Class I permissive changes, the replacement Magnetrons are not identical in all respects and are considered to be Class II permissive change category. Consequently EMC testing has been repeated to evaluate the unit with the above changes incorporated. The tests were performed successfully by EMC Projects Limited, the full test report will be issued in due course.

The modifications above will be incorporated into the 208 volt and 240 volt model variants, the primary difference between models being the High Voltage Transformer and the Mains Transformer. The design parameters of the High Voltage Transformers ensure the same drive conditions are applied to the Magnetron. Consequently Merrychef consider that provided the EMC re-test results of the 208 volt variant are comparable with the original test results, it should not be necessary to re-test the EMC performance of the 240 volt variant. Please confirm whether ATCB are in agreement with this reasoning.

Please note that the current Grant Authorization Certificates do not include the manufacturer's identification of the original or the replacement Magnetrons, but the Sanyo device was identified on the parts list previously submitted.

Yours sincerely

Paul Harrison  
Approvals Engineer