PANASONIC HOME APPLIANCE COMPANY of AMERICA,
MICROWAVE TECHNICAL LABORATORY

1707 N. RANDALL ROAD, E- Zip E2J-16
ELGIN, IL 60123-7847
Direct Dial Line: (847) 468-4145
Fax: (847) 468-5963

# PHAA

January 26, 2007

Federal Communications Commission
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

SUBJECT: FILING FOR RE-CERTIFICATION – CLASS II PERMISSIVE CHANGES, GRANTEE CODE ACL.

We are sending application for models previously granted certification on 03/22/2006, under FCC Identifier ACLAP6Z01.The new submission is filed under the Class II, permissive changes provision.
The main purpose for re-filing is the application for the use of a new Inverter power supply . For a quick reference to all of the exhibits submitted, please reference the Application Index and Summary on the following pages.

If there are any questions pertaining to this application, please contact me.

Sincerely,

George Vazquez

George Vazquez
Engineer, Codes & Safety

Cc: S. Yamashita

**FCC ID: ACLAP6Z01**
**APPLICATION INDEX AND SUMMARY**

**APPLICATION FOR RE-CERTIFICATION**

| MODEL NO. | FCC ID |
|---|---|
| NN-SD277S | ACLAP6Z01 |
| NN-SD277B | ACLAP6Z01 |
| NN-SD277W | ACLAP6Z01 |
| NN-SD297S | ACLAP6Z01 |

**LIST OF EXHIBITS**

EXHIBIT A: TECHNICAL REPORT

EXHIBIT B: PHOTOGRAPHS OF EQUIPMENT

EXHIBIT C: SAMPLE AND LOCATION OF FCC ID LABEL

EXHIBIT D: SCHEMATIC DIAGRAM

EXHIBIT E: TEST REPORT

EXHIBIT F: TEST SETUP PHOTOS

EXHIBIT G: USERS MANUAL

**FCC ID: ACLAP6Z01**
**EXHIBIT: A**

**TECHNICAL REPORT**

1. DESCRIPTION OF MEASUREMENT FACILITY:
   The description of the measurement facility is already on file with the FCC laboratory. Please refer to the commission's registration number 142171.

2. USER MANUAL:
   Reference: EXHIBIT G

3. APPLICANT:
   PANASONIC HOME APPLIANCE COMPANY of AMERICA,
   MICROWAVE TECHNICAL LAB., E-Zip E2J-16
   1707 N. Randall Road
   Elgin, Illinois 60123-7847

5. MANUFACTURER:
   PANASONIC HOME APPLIANCES MICROWAVE OVEN SHANGHAI COMPANY LTD. (PHAMOS)
   898 Long Dong Road
   Pu Dong, Shanghai 201203 CHINA

6. MEASUREMENT SITE:
   FCC Registration Number 142171
   SIMT EMC LAB
   716 Yi Shan Road
   Shanghai City, 200233 China

7. EQUIPMENT SPECIFICATIONS:
   Electrical Power Requirement: 120V, 60Hz, 12.9A
   Nominal Operating Frequency: 2450 MHz
   Maximum RF Energy Generated: 1200 W (IEC 705)
   Magnetron Type: 2M261-M32
   Feed Type and Location: Through the wave guide on the top of the oven.
   Stirrer: Turntable and Mode Stirrer Type
   Cabinet Dimensions: (W) 759 x (H) 418 x (D) 381 (mm)
   Oven Cavity Dimensions: (W) 591 x (H) 242 x (D) 367 (mm)
   Door Viewing Area Dimensions: (W) 462 x (H) 166 (mm)
   Door Seal Type: Slit Choke seal and capacitive seal method

   The models in this report are similar to previously submitted models with the grant issued 03/22/2006. The only difference will be that the models will utilize a new Inverter Power Supply.

**EXHIBIT: B**

**PHOTOGRAPHS OF EQUIPMENT**

External: Reference EXHIBIT B
Internal: Reference EXHIBIT B

**FCC ID: ACLAP6Z01**
**EXHIBIT: E**

**TEST REPORT SUMMARY: Radiated Emissions**

1. MODEL NO.: NN-SD297

SERIAL NO.: PP07001

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 12/18/06

3. TEST REPORT: Reference EXHIBIT E

4. TEST SETUP PHOTOS: Reference EXHIBIT F

5. INVESTIGATED FREQUENCY RANGE: 100 MHz to 5th Harmonic

6. TEST DATA SUMMARY:

Safety Check : <0.0663 MW/cm2

| Radiated Field Strength | | (dBµV/m @ 300m) | Limit (DbµV/m) | Margin (dB) |
|---|---|---|---|---|
| 2nd. Harmonic | 4918.2 MHz | 4.05 | 35.66 | 31.61 |
| 3rd. Harmonic | 7345.6 MHz | 9.51 | " " | 26.15 |
| 4th. Harmonic | 9822.4 MHz | 7.83 | " " | 27.83 |
| 5th. Harmonic | 12280.8 MHz | 7.38 | " " | 28.28 |
| Spurious | 7901.6 MHz | 11.44 | " " | 24.22 |
| Emission Sideband | 2214.7 MHz | 11.74 | " " | 23.92 |
| Emission Sideband | 2698.9 MHz | 16.46 | " " | 19.21 |

Greater than 5th Harmonic not measurable

Maximum Frequency Variation: 2454.64 to 2498.02 MHz
(96V ~ 150V/ 1500ml water load)

Maximum Frequency Variation: 2454.64 to 2490.38 MHz
(1500ml - 300ml water load)

Total Power Input to Oven: 1264.8 watts

Power Developed in Dummy Load: 1017.07 watts

Supply Voltage: 120 Volts, 60Hz, 10.54A

**FCC ID: ACLAP6Z01**
**EXHIBIT: E**

**TEST REPORT SUMMARY: Line Conductance**

1. MODEL NO.: NN-SD297

SERIAL NO.: PP07001

MAGNETRON TYPE NO.: 2M261-M32

2. MEASUREMENT DATE: 12/18/06

3. TEST REPORT: Reference EXHIBIT E

4. TEST SETUP PHOTOS: Reference EXHIBIT F

5. INVESTIGATED FREQUENCY RANGE: 150 kHz to 30 MHz

6. TEST DATA SUMMARY:
Selected Peak Readings (Reference Spectrum Analyzer plot EXHIBIT E for complete readings).

Power Line Live Side

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta db |
|---|---|---|---|
| 20.881 | 46.50 | 60.00 | 13.50 |
| 21.448 | 44.70 | " " | 15.30 |
| 22.393 | 45.40 | " " | 14.60 |
| 22.443 | 43.70 | " " | 16.30 |
| 23.964 | 43.30 | " " | 16.70 |
| 25.125 | 44.90 | " " | 15.10 |
| **Frequency MHz** | **AV Level dBµV** | **AV Limit dBµV** | **AV Delta db** |
| 20.652 | 35.30 | 50.00 | 14.70 |
| 21.381 | 35.60 | " " | 14.40 |
| 22.141 | 36.00 | " " | 14.00 |
| 22.393 | 34.10 | " " | 15.90 |
| 23.644 | 35.80 | " " | 14.20 |
| 24.400 | 35.00 | " " | 15.00 |

Power Line Neutral Side

| Frequency MHz | QP Level dBµV | QP Limit dBµV | QP Delta db |
|---|---|---|---|
| 21.588 | 50.70 | 60.00 | 9.30 |
| 22.348 | 52.90 | " " | 7.10 |
| 23.046 | 52.40 | " " | 7.60 |
| 23.163 | 52.30 | " " | 7.70 |
| 23.910 | 54.90 | " " | 5.10 |
| 26.002 | 52.20 | " " | 7.80 |
| **Frequency MHz** | **AV Level dBµV** | **AV Limit dBµV** | **AV Delta db** |
| 21.588 | 33.10 | 50.00 | 16.90 |
| 22.348 | 38.70 | " " | 11.30 |
| 23.046 | 36.70 | " " | 13.30 |
| 23.910 | 34.30 | " " | 15.70 |
| 24.580 | 37.30 | " " | 12.70 |
| 25.260 | 33.30 | " " | 16.70 |