

PANASONIC HOME APPLIANCE COMPANY of AMERICA,
MICROWAVE TECHNICAL LABORATORY

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PHAA

January 29, 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 12/30/2004, under FCC Identifier ACLAP7G81. The new submission is filed under the Class II, permissive changes provision.

The main purpose for re-filing is the application for a new construction and location of the power line filter circuitry board. Photographs with this change are in the report. For a quick reference to all of the exhibits submitted, please reference the Application Index and Summary after the cover letter page.

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

Sincerely,



George Vazquez
Engineer, Codes & Safety

Cc: S. Yamashita

FCC ID: ACLAP7G81
APPLICATION INDEX AND SUMMARY

APPLICATION FOR RE-CERTIFICATION

<u>MODEL NO.</u>	<u>FCC ID</u>
NN-SD377S	ACLAP7G81

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: ACLAP7G81
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. OPERATING INSTRUCTIONS:

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
SMT EMC LAB
716 Yi Shan Road
Shanghai City, 200233 China

7. EQUIPMENT SPECIFICATIONS:

Electrical Power Requirement: 120V, 60Hz, 10.5A
Nominal Operating Frequency: 2450 MHz
Maximum RF Energy Generated: 800 W (IEC 705)
Magnetron Type: 2M210-M1
Feed Type and Location: Through the wave guide on the right sidewall of the oven.
Stirrer: Turntable Type
Cabinet Dimensions: (W) 482 x (H) 282 x (D) 364 (mm)
Oven Cavity Dimensions: (W) 325 x (H) 218 x (D) 330 (mm)
Door Viewing Area Dimensions: (W) 204 x (H) 102 (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 12/30/2004. The only difference will be just the location of the oven fuse and power line filter.

EXHIBIT: B

PHOTOGRAPHS OF EQUIPMENT

External: Reference EXHIBIT B
Internal: Reference EXHIBIT B

TEST REPORT SUMMARY: Radiated Emissions

1. MODEL NO.: NN-SD377S

SERIAL NO.: PP07006

MAGNETRON TYPE NO.: 2M10-M1

2. MEASUREMENT DATE: 01/10/07 Thru 01/12/07

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 : <0.1058 MW/cm²

Radiated Field Strength		(dB μ V/m @ 300m)	Limit (Db μ V/m)	Margin (dB)
2nd. Harmonic	4920.8 MHz	3.42	35.66	32.24
3rd. Harmonic	7356.2 MHz	12.16	" "	23.50
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	2218.2 MHz	11.65	" "	24.01
Emission Sideband	2701.5 MHz	20.57	" "	15.09

Greater than 5th Harmonic not measurable

Maximum Frequency Variation: 2461.4 to 2469.9 MHz
(96V ~ 150V/ 1500 ml water load)

Maximum Frequency Variation: 2461.0 to 2468.5 MHz
(1000 ml - 200ml water load)

Total Power Input to Oven: 1225.2 watts

Power Developed in Dummy Load: 603.63 watts

Supply Voltage: 120 Volts, 60Hz, 10.21A

TEST REPORT SUMMARY: Line Conductance

1. MODEL NO.: NN-SD377S

SERIAL NO.: PP07006

MAGNETRON TYPE NO.: 2M210-M1

2. MEASUREMENT DATE: 01/10/07 Thru 01/12/07

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 dB μ V	QP Limit dB μ V	QP Delta db
0.907	51.50	56.00	4.50
1.086	49.50	" "	6.50
1.148	40.20	" "	15.80
1.229	35.70	" "	20.30
1.269	32.50	" "	23.50
2.502	47.20	" "	8.80
3.192	30.20	" "	25.80
14.494	41.90	" "	14.10

Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta db
0.875	21.90	46.00	24.10
1.117	21.00	" "	25.00
1.148	16.50	" "	29.50
1.229	14.60	" "	31.40
2.452	18.20	" "	27.80
16.079	29.80	50.00	20.20

Power Line Neutral Side

Frequency MHz	QP Level dB μ V	QP Limit dB μ V	QP Delta db
0.795	48.60	56.00	7.40
0.971	49.10	" "	6.90
1.031	52.30	" "	3.70
1.300	43.20	" "	12.80
1.369	43.80	" "	12.20
2.532	46.00	" "	10.00

Frequency MHz	AV Level dB μ V	AV Limit dB μ V	AV Delta db
0.151	24.80	55.90	31.10
0.795	34.30	46.00	11.70
0.911	35.70	" "	10.30
1.754	28.10	" "	17.90
2.552	28.90	" "	17.10
13.706	31.80	50.00	18.20