ACLAP4X01

APPLICATION FOR CERTIFICATION

MODEL NO.	FCC ID
NN-C980W	ACLAP4X01
NN-C980B	ACLAP4X01

LIST OF EXHIBITS

Exhibit	1:	TECHNICAL REPORT
Exhibit	2:	PHOTOGRAPHS OF MAGNETRON AND COMPONENTS
Exhibit	3:	SAMPLES AND LOCATION OF FCC ID LABEL
Exhibit	4:	SCHEMATIC DIAGRAM
Exhibit	5:	REPORT OF MEASUREMENTS
Exhibit	6:	LIST OF MEASURING EQUIPMENT AND CALIBRATION
Exhibit	7 :	INSTALLATION INSTRUCTIONS
Exhibit	8:	OPERATING INSTRUCTIONS

ACLAP4X01 Exhibit 1-1

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 reference 31010/EQU 4-3-0A. 2. INSTALLATION INSTRUCTIONS: See Exhibit 7. 3. OPERATING INSTRUCTIONS: See Exhibit 8. 4. APPLICANT: MATSUSHITA HOME APPLIANCE COMPANY, Division of MATSUSHITA ELECTRIC CORPORATION of AMERICA 9333 W. Grand Avenue Franklin Park, Illinois 60131 5. MANUFACTURER: MATSUSHITA ELECTRIC INDUSTRIAL Co., LTD. 1006 Kadoma, Osaka, Japan Factory Location: MATSUSHITA ELECTRIC INDUSTRIAL Co., LTD. Microwave Oven Division 800 Tsutsui-cho, Yamatokoriyama, Nara, Japan 6. MEASUREMENT SITE: PANASONIC MAGNETRON LAB. PANASONIC INDUSTRIAL COMPANY 1707 N. Randle Road Elgin, Il 60123-7847 7. EQUIPMENT IDENTIFICATION: Model No. : NN-C980W, NN-C980B Brand Name : Panasonic FCC ID : ACLAP4X01 8. EQUIPMENT SPECIFICATIONS: Electrical Power Requirement: 120V, 60Hz, 12.8A Nominal Operating Frequency: <u>2450 MHz</u> Maximum RF Energy Generated: 1100 W (IEC 705) Magnetron Type: <u>2M236-M1G</u> Feed Type and Location: Through the wave guide on the right sidewall of the oven. Stirrer: Turntable Type Cabinet Dimensions: (W) 606 x (H) 376 x (D) 491 (mm) Oven Cavity Dimensions: (W) 412 x (H) 242 x (D) 426 (mm) Door Viewing Area Dimensions: (W) 320 x (H) 182 (mm) Door Seal Type: Slit Choke seal and capacitive seal method ACLAP4X01 Exhibit 1-2

9. DESCRIPTION OF DIFFERENCES

Model No.	NN-C980W	NN-C980B		
Input	120Vac,	120Vac,		

Power	12.8A	12.8A		
Output Power	1100W	1100W		
Magnetron	2M236-M1G	2M236-M1G		
Brand	Panasonic	Panasonic		

ACLAP4X01 Exhibit 2

PHOTOGRAPHS OF EQUIPMENT Exhibit 2-A: FRONT VIEW OF MODEL NN-C980 Exhibit 2-B: REAR VIEW OF MODEL NN-C980 Exhibit 2-C: FRONT VIEW OF MODEL NN-C980 WITH THE DOOR OPENED Exhibit 2-D1: TOP VIEW OF MODEL NN-C980 WITH ENCLOSURE REMOVED Exhibit 2-D2: TOP VIEW OF MODEL NN-C980 WITH ENCLOSURE REMOVED Exhibit 2-E1: RIGHT SIDE VIEW OF MODEL NN-C980 WITH ENCLOSURE REMOVED Exhibit 2-F: BOTTOM VIEW OF MODEL NN-C980 Exhibit 2-G1: LEFT SIDE VIEW OF MODEL NN-C980 Exhibit 2-G2: LEFT SIDE VIEW OF MODEL NN-C980 Exhibit 2-G2: LEFT SIDE VIEW OF MODEL NN-C980 Exhibit 2-H: VIEW OF DOOR CHOKE CONSTRUCTION ILLUSTRATING INTEGRAL CHOKE TYPE. Exhibit 2-I: VIEW OF MAGNETRON TYPE 2M236-M1G Exhibit 2-J: VIEW OF INVERTER POWER SUPPLY REPORT OF MEASUREMENTS

- 1. MODEL NO.: <u>NN-C980</u> SERIAL NO. <u>6X30010001</u> MAGNETRON TYPE NO.: <u>2M236-M1G</u>
- 2. MEASUREMENT DATE: <u>12/06/99</u>
- 3. LIST OF MEASURING EQUIPMENT AND CALIBRATION DATA: REFER TO ATTACHED EXHIBIT 6
- 4. INVESTIGATED FREQUENCY RANGE: 100Mhz to 4th Harmonic
- 5. DATA SUMMARY: Safety Check : <0.5 MW/cm2 (uV/m @ 300m) Radiated Field Strength: Limit(uV/m) <u>353 uv/m</u> Fundamental: <u>2473 MHz</u> N/A 1.05uv/m 2nd. Harmonic: 4974 MHz 30.30 3rd. Harmonic: 7456 MHz <u>1.10uv/m</u> п <u>1.72uv/m</u> <u>5.89uv/m</u> 4th. Harmonic: 9914 MHz 2<u>379 Mhz</u> п Spurious: 2400 MHz п Emmission Sideband: 1.86uv/m ... 2500 MHz Emmission Sideband: 0.81uv/m Greater than 4th. Harmonic not measurable Maximum Frequency Variation: 2474 to 2476 MHz

(96V ~ 150V/ 1500 ml water load)Maximum Frequency Variation:2468 to 2474 MHz(1500 ml - 300ml water load)Total Power Input to Oven:2000 wattsPower Developed in Dummy Load:735 wattsSupply Voltage:120 Volts, 60 Hz

EXHIBIT 3 ACLAP4X01 DRAWING AND LOCATION OF FCC LABEL