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**FCC ID:** N3EYELINKC070058

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## EMC Equipment List

|   | DEVICE                                           | MFGR            | MODEL         | SERNO                    | CAL/CHAR<br>DATE  | DUE DATE<br>or STATUS |
|---|--------------------------------------------------|-----------------|---------------|--------------------------|-------------------|-----------------------|
| X | 3-Meter<br>OATS                                  | TEI             | N/A           | N/A                      | Listed<br>1/13/03 | 1/13/06               |
|   | 3/10-Meter<br>OATS                               | TEI             | N/A           | N/A                      | Listed<br>3/26/01 | 3/26/04               |
|   | Receiver, Beige Tower<br>Spectrum Analyzer       | HP              | 8566B Opt 462 | 3138A07786<br>3144A20661 | CAL<br>8/31/01    | 8/31/03               |
|   | RF Preselector                                   | HP              | 85685A        | 3221A01400               | CAL<br>8/31/01    | 8/31/03               |
|   | Quasi-Peak Adapter                               | HP              | 85650A        | 3303A01690               | CAL<br>8/31/01    | 8/31/03               |
| X | Receiver, Blue Tower<br>Spectrum Analyzer        | HP              | 8568B         | 2928A04729               | CAL               | 4/15/05               |
| X |                                                  |                 |               | 2848A18049               | 4/15/03           |                       |
| X | RF Preselector                                   | HP              | 85685A        | 2926A00983               | CAL<br>4/15/03    | 4/15/05               |
| X | Quasi-Peak Adapter                               | HP              | 85650A        | 2811A01279               | CAL<br>4/15/03    | 4/15/05               |
|   | Receiver, Silver/Grey Tower<br>Spectrum Analyzer | HP              | 8566B Opt 462 | 3552A22064<br>3638A08608 | CAL<br>10/14/02   | 10/14/04              |
|   | RF Preselector                                   | HP              | 85685A        | 2620A00294               | CAL<br>10/14/02   | 10/14/04              |
|   | Quasi-Peak Adapter                               | HP              | 85650A        | 3303A01844               | CAL<br>10/14/02   | 10/14/04              |
|   | Preamplifier                                     | HP              | 8449B         | 3008A01075               | CHAR<br>1/28/02   | 1/28/04               |
| X | Biconnical Antenna                               | Electro-Metrics | BIA-25        | 1171                     | CAL<br>4/26/01    | 4/26/03               |
|   | Biconnical Antenna                               | Eaton           | 94455-1       | 1096                     | CAL<br>10/1/01    | 10/1/03               |
|   | Biconnical Antenna                               | Eaton           | 94455-1       | 1057                     | CAL<br>3/18/03    | 3/18/05               |
|   | BiconiLog Antenna                                | EMCO            | 3143          | 9409-1043                |                   |                       |
| X | Log-Periodic<br>Antenna                          | Electro-Metrics | LPA-25        | 1122                     | CAL<br>10/2/01    | 10/2/03               |
|   | Log-Periodic<br>Antenna                          | Electro-Metrics | EM-6950       | 632                      | CHAR<br>10/15/01  | 10/15/03              |
|   | Log-Periodic<br>Antenna                          | Electro-Metrics | LPA-30        | 409                      | CAL<br>3/4/03     | 3/4/05                |
|   | Dipole Antenna<br>Kit                            | Electro-Metrics | TDA-30/1-4    | 152                      | CAL<br>3/21/01    | 3/21/04               |
|   | Dipole Antenna<br>Kit                            | Electro-Metrics | TDA-30/1-4    | 153                      | CAL<br>9/26/02    | 9/26/05               |
|   | Double-Ridged Horn<br>Antenna                    | Electro-Metrics | RGA -180      | 2319                     | CAL<br>2/17/03    | 2/17/05               |

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|   | DEVICE                                | MFGR                           | MODEL            | SERNO        | CAL/CHAR<br>DATE   | DUE DATE<br>or STATUS |
|---|---------------------------------------|--------------------------------|------------------|--------------|--------------------|-----------------------|
|   | Horn Antenna                          | Electro-Metrics                | EM-6961          | 6246         | CAL<br>3/31/03     | 3/31/05               |
|   | Horn Antenna                          | ATM                            | 19-443-6R        | None         | No Cal<br>Required |                       |
|   | Passive Loop Antenna                  | EMC Test Systems               | EMCO 6512        | 9706-1211    | CHAR<br>7/10/01    | 7/10/03               |
|   | Line Impedance<br>Stabilization . . . | Electro-Metrics                | ANS-25/2         | 2604         | CAL<br>10/9/01     | 10/9/03               |
|   | Line Impedance Stabilization<br>. . . | Electro-Metrics                | EM-7820          | 2682         | CAL<br>3/12/03     | 3/12/05               |
|   | Termaline Wattmeter                   | Bird Electronic<br>Corporation | 611              | 16405        | CAL<br>5/25/99     | 5/25/01               |
|   | Termaline Wattmeter                   | Bird Electronic<br>Corporation | 6104             | 1926         | CHAR<br>12/12/01   | 12/12/03              |
|   | Oscilloscope                          | Tektronix                      | 2230             | 300572       | CHAR<br>2/1/01     | 2/1/03                |
|   | System One                            | Audio Precision                | System One       | SYS1-45868   | CHAR<br>4/25/02    | 4/25/04               |
|   | Temperature Chamber                   | Tenney<br>Engineering          | TTRC             | 11717-7      | CHAR<br>1/22/02    | 1/22/04               |
|   | AC Voltmeter                          | HP                             | 400FL            | 2213A14499   | CAL<br>10/9/01     | 10/9/03               |
|   | AC Voltmeter                          | HP                             | 400FL            | 2213A14261   | CHAR<br>10/15/01   | 10/15/03              |
|   | AC Voltmeter                          | HP                             | 400FL            | 2213A14728   | CHAR<br>10/15/01   | 10/15/03              |
| X | Digital Multimeter                    | Fluke                          | 77               | 35053830     | CHAR<br>1/8/02     | 1/8/04                |
|   | Digital Multimeter                    | Fluke                          | 77               | 43850817     | CHAR<br>1/8/02     | 1/8/04                |
|   | Digital Multimeter                    | HP                             | E2377A           | 2927J05849   | CHAR<br>1/8/02     | 1/8/04                |
|   | Multimeter                            | Fluke                          | FLUKE-77-3       | 79510405     | CHAR<br>9/26/01    | 9/26/03               |
|   | Peak Power Meter                      | HP                             | 8900C            | 2131A00545   | CHAR<br>1/26/01    | 1/26/03               |
|   | Power Meter                           | HP                             | 432A             | 1141A07655   | CAL<br>4/15/03     | 4/15/05               |
|   | Power Meter<br>And Sensor             | Bird                           | 4421-107<br>4022 | 0166<br>0218 | CAL<br>4/16/03     | 4/16/05               |
|   | Power Sensor                          | HP                             | 478A             | 72129        | CAL<br>4/15/03     | 4/15/05               |
|   | Digital Thermometer                   | Fluke                          | 2166A            | 42032        | CAL<br>1/16/02     | 1/16/04               |
|   | Thermometer                           | Traulsen                       | SK-128           |              | CHAR<br>1/22/02    | 1/22/04               |
|   | Thermometer                           | Extech                         | 4028             | 14871-2      | CAL<br>3/7/03      | 3/7/05                |

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|   | DEVICE              | MFGR                    | MODEL                | SERNO      | CAL/CHAR<br>DATE | DUE DATE<br>or STATUS |
|---|---------------------|-------------------------|----------------------|------------|------------------|-----------------------|
| X | Hygro-Thermometer   | Extech                  | 445703               | 0602       | CAL<br>10/4/02   | 10/4/04               |
|   | Frequency Counter   | HP                      | 5352B                | 2632A00165 | CAL<br>11/28/01  | 11/28/03              |
|   | Frequency Counter   | HP                      | 5385A                | 2730A03025 | CAL<br>3/7/03    | 3/7/05                |
|   | Power Sensor        | Agilent<br>Technologies | 84811A               | 2551A02705 | CHAR<br>1/26/01  | 1/26/03               |
|   | Service Monitor     | IFR                     | FM/AM 500A           | 5182       | CAL<br>11/22/00  | 11/22/02              |
|   | Comm. Serv. Monitor | IFR                     | FM/AM 1200S          | 6593       | CAL<br>5/12/02   | 5/12/04               |
|   | Signal Generator    | HP                      | 8640B                | 2308A21464 | CAL<br>2/15/02   | 2/15/04               |
|   | Sweep Generator     | Wiltron                 | 6648                 | 101009     | CAL<br>4/15/03   | 4/15/05               |
|   | Sweep Generator     | Wiltron                 | 6669M                | 007005     | CAL<br>3/3/03    | 3/3/05                |
|   | Modulation Analyzer | HP                      | 8901A                | 3435A06868 | CAL<br>9/5/01    | 9/5/03                |
|   | Modulation Meter    | Boonton                 | 8220                 | 10901AB    | CAL<br>4/15/03   | 4/15/05               |
|   | Near Field Probe    | HP                      | HP11940A             | 2650A02748 | CHAR<br>2/1/01   | 2/1/03                |
|   | BandReject Filter   | Lorch Microwave         | 5BR4-2400/<br>60-N   | Z1         | CHAR<br>3/2/01   | 3/2/03                |
|   | BandReject Filter   | Lorch<br>Microwave      | 6BR6-2442/<br>300-N  | Z1         | CHAR<br>3/2/01   | 3/2/03                |
|   | BandReject Filter   | Lorch<br>Microwave      | 5BR4-10525/<br>900-S | Z1         | CHAR<br>3/2/01   | 3/2/03                |
|   | High Pass Filter    | Microlab                | HA-10N               |            | CHAR<br>10/4/01  | 10/4/03               |
|   | High Pass Filter    | Microlab                | HA-20N               |            | CHAR<br>2/7/03   | 2/7/05                |
|   | Audio Oscillator    | HP                      | 653A                 | 832-00260  | CHAR<br>3/1/01   | 3/1/03                |
|   | Frequency Counter   | HP                      | 5382A                | 1620A03535 | CHAR<br>3/2/01   | 3/2/03                |
|   | Frequency Counter   | HP                      | 5385A                | 3242A07460 | CAL<br>3/7/03    | 3/7/05                |
|   | Preamplifier        | HP                      | 8449B-H02            | 3008A00372 | CHAR<br>3/4/01   | 3/4/03                |
|   | Amplifier           | HP                      | 11975A               | 2738A01969 | CHAR<br>3/1/01   | 3/1/03                |
|   | Egg Timer           | Unk                     |                      |            | CHAR<br>8/31/01  | 8/31/03               |
|   | Measuring Tape, 20M | Kraftixx                | 0631-20              |            | CHAR<br>2/1/02   | 2/1/04                |

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|  | <b>DEVICE</b>        | <b>MFGR</b>         | <b>MODEL</b>  | <b>SERNO</b> | <b>CAL/CHAR<br/>DATE</b> | <b>DUE DATE<br/>or STATUS</b> |
|--|----------------------|---------------------|---------------|--------------|--------------------------|-------------------------------|
|  | Measuring Tape, 7.5M | Kraftixx            | 7.5M PROFI    |              | 2/1/02                   | 2/1/04                        |
|  | Coaxial Cable #51    | Insulated Wire Inc. | NPS 2251-2880 | Timco #51    | CHAR<br>1/23/02          | 1/23/04                       |
|  | Coaxial Cable #64    | Semflex Inc.        | 60637         | Timco #64    | CHAR<br>1/24/02          | 1/24/04                       |
|  | Coaxial Cable #65    | General Cable Co.   | E9917 RG233/U | Timco #65    | CHAR<br>1/23/02          | 1/23/04                       |
|  | Coaxial Cable #106   | Unknown             | Unknown       | Timco #106   | CHAR<br>1/23/02          | 1/23/04                       |

## TEST PROCEDURE

**GENERAL:** This report shall NOT be reproduced except in full without the written approval of TIMCO ENGINEERING, INC.

**RADIATION INTERFERENCE:** The test procedure used was ANSI STANDARD C63.4-1992 using a HEWLETT PACKARD spectrum analyzer with a preselector. The bandwidth of the spectrum analyzer was 100 KHZ with an appropriate sweep speed. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100KHZ and the video bandwidth was 300KHZ. The ambient temperature of the UUT was 80°F with a humidity of 70%.

**FORMULA OF CONVERSION FACTORS:** The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the Preselector was accounted for in the Spectrum Analyzer Meter Reading.

**Example:**

Freq (MHz) METER READING + ACF = FS  
33            20 dBuV + 10.36 dB = 30.36 dBuV/m @ 3m

**ANSI STANDARD C63.4-1992 10.1.7 MEASUREMENT PROCEDURES:** The unit under test was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The table used for radiated measurements is capable of continuous rotation. When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

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**NAME OF TEST:** RADIATION INTERFERENCE

**RULES PART NO.:** 15.109

**REQUIREMENTS:** 30 to 88 MHz: 40.0 dBuV/M @ 3 METERS  
88 to 216 MHz: 43.5 dBuV/M  
216 to 960 MHz: 46.0 dBuV/M  
ABOVE 960 MHz: 54.0 dBuV/M

**TEST RESULTS:** A search was made of the spectrum from 30 to 1000MHz and the measurements indicate that the unit DOES meet the FCC requirements.

**TEST DATA:**

| Emission<br>Frequency<br>MHz | Meter<br>Reading<br>dBuV | ANT.<br>POLARITY | Coax<br>Loss<br>dB | Correction<br>Factor<br>dB | Field<br>Strength<br>dBuV/m | Margin<br>dB |
|------------------------------|--------------------------|------------------|--------------------|----------------------------|-----------------------------|--------------|
| 435.66                       | 11.3                     | V                | 2.91               | 17.08                      | 31.29                       | 14.71        |
| 435.66                       | 15.5                     | H                | 2.91               | 17.08                      | 35.49                       | 10.51        |

**SAMPLE CALCULATION:** FSdBuV/m = MR (dBuV) + ACFdB.

**TEST PROCEDURE:** ANSI STANDARD C63.4-1992 using a Hewlett Packard Model 8566B spectrum analyzer, a Hewlett Packard Model 85685A Preselector, a Hewlett Packard Model 85650A Quasi-Peak adapter, and an appropriate antenna - see the test equipment list. The bandwidth of spectrum analyzer was 100 kHz with an appropriate sweep speed. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported.

**PERFORMED BY:** NAM NGUYEN

**DATE:** MAY 30, 2003