8. RELIABILITY & SAFETY

8.1 Reliability

(1)MTBF

30,000 hours at standard power input excluding CRT.
*Values calculated according to the simplified "Parts Count Reliability Prediction" method as specified in MIL- HDBK-217F.

8.2 Safety Aspect

<table>
<tr><td>X-ray Radiation</td><td>Less than 0.1 mR/hour (1 µSv/H) at 10 cm distance.</td></tr>
<tr><td>Anti Static-electricity Effect</td><td>Less than 0.5 kV equivalent surface potential in 20 minutes after turning on the power (25 °C/60 % RH) at 10 cm distance.</td></tr>
<tr><td>Anti Low Frequency Electric and Magnetic Field</td><td>
<table>
<tr><th></th><th>TCO</th><th>measuring distance</th></tr>
<tr><td colspan="3">Alternating Electric Fields</td></tr>
<tr><td>Band 1 (5 Hz~2 kHz)</td><td>< 10 V/m</td><td>30 cm and 50 cm from CRT surface</td></tr>
<tr><td>Band 2 (2 kHz~400 kHz)</td><td>< 1 V/m</td><td>50 cm around monitor and 30 cm from CRT surface</td></tr>
<tr><td colspan="3">Alternating Magnetic Fields</td></tr>
<tr><td>Band 1 (5 Hz~2 kHz)</td><td>< 200 nT</td><td>50 cm around monitor and 30 cm from CRT surface</td></tr>
<tr><td>Band 2 (2 kHz~400 kHz)</td><td>< 25 nT</td><td>50 cm around monitor</td></tr>
</table>
* Tested on positive (black text against a white background) display mode.
* Test resolution: 1600 x 1200 @85 Hz
* All values are RMS.
</td></tr>
<tr><td>Leakage Current</td><td>Less than 0.25 mA at 110 VAC
Less than 3.5 mA at 264 VAC</td></tr>
</table>

9. OPERATING ENVIRONMENT SPECIFICATIONS

<table>
<tr><td>Ambient Temperature</td><td>Operation: 0 °C~35 °C (32 °F ~ 95 °F)
Storage : -20 °C~60 °C (-4 °F ~ 140 °F)
(To be kept for 4 hours at 25 °C <77 °F> before use.)</td></tr>
<tr><td>Ambient Humidity</td><td>Operation & Storage: 30 %~80 % R.H. Non condensing</td></tr>
<tr><td>Altitude</td><td>Operation: up to 3,000 m (9,840 ft.)
Shipping or Storage: up to 12,000 m (39,370 ft.)</td></tr>
<tr><td>Vibration
(Standard Package)</td><td>To be free from any damage on 1 hour 1 G vibration test to be carried out under 5~100~5 Hz varying frequencies in every 10 minutes. To be validated along all three axes.</td></tr>
<tr><td>Drop Test
(Standard Package)</td><td>To be free from any damage on free drop from 60 cm <2 ft>height.
To be validated one corner, three edges and six faces.</td></tr>
<tr><td>Electrostatic Discharge</td><td>Based on IEC801-2 (1991)
<table>
<tr><th></th><th>Air Discharge</th><th>Contact Discharge</th><th>Discharge Impedance</th></tr>
<tr><td>Voltage</td><td>8 kV</td><td>4 kV</td><td>330 Ω/150 pF</td></tr>
</table>
</td></tr>
</table>