

Chris Harvey EMC

From: MBosley@metlabs.com
Sent: Wednesday, November 26, 2003 9:56 AM
To: chrisharveyemc@comcast.net; LXu@metlabs.com
Cc: MBosley@metlabs.com; HBandukwala@metlabs.com
Subject: RE: NexGen City MT#14460 Request for Information

Importance: High

Chris,

Liming is off until next Monday. I will contact Mr. Meitzen and let him know that he won't be getting anything until at least then.

As for the formatting (ID, blank page) I spoke of this when I referred it to you that the ID was still outstanding and that I still needed to check behind Liming on the formatting issue.

As for the RF Exposure info in manual, when this job started and I was beginning to gather info from Dave, I told him that he would most likely have to add some RFX verbage, that you could assist with that, as you have explained to customers in the past. That's why it's not there - he didn't know what to put.

Hoosam,

Maybe you can help brainstorm a "fix" for the RF exposure language in manual issue - I'm not sure as to what to direct the customers in this area, maybe you can give me a tutorial or Liming one or something--since we don't have Chris in this area any more.

Liming,

The couple of technical things below are yours.

-----Original Message-----

From: Chris Harvey EMC
To: Liming Xu
Cc: 'Marianne Bosley'
Sent: 11/26/2003 6:37 AM
Subject: NexGen City MT#14460 Request for Information

Liming, I have been reviewing the test report 'EMC 14460 FCC.pdf' and find several issues:

Please note that the Conducted Emissions limit for FCC 15.207 is incorrectly listed, even though it appears to comply. Please use the appropriate limits per FCC 15.207.

Formatting issue, page 16 is blank.

The FCC ID number is not in the report.

The RF Exposure requirement uses a numeric gain of 1.5 for the antenna, where the antennas listed in the report are documented as having as much as 18dBi gain. Please explain and correct the MPE calculations. This device may be classified as fixed mounted on outdoor permanent structures if it is always mounted on light poles.

The test procedure for the Spurious Emissions - RF Conducted section of the report (page 31 of 47 of the report) has text that refers to Radiated Emissions.

Please explain the compliance with the Power Spectral Density requirements (report shows 1.5MHz span with 100 second sweep) with respect to the following text from the DTS test guide:

Locate and zoom in on emission peak(s) within the passband. Set RBW = 3 kHz, VBW > RBW, sweep= (SPAN/3 kHz) e.g., for a span of 1.5 MHz, the sweep should be $1.5 \times 10^6 / 3 \times 10^3 = 500$ seconds. The peak level measured must be no greater than + 8 dBm.

I have noticed that each test section of the report does not document the date of the test, which I think is a requirement in the accreditations.

The installation manual has absolutely no information about RF Exposure or about adjusting the RF power output documented in the test report for each of the specific antennas. There must be RF Exposure information as well as guidance to the installer about how to set the power level for each specific antenna. There was a MESH Users Manual provided that does have some RF Exposure information, but it is not clear if that manual is provided with the NexGen City device, and in any case this only partially satisfies the requirement above.

Chris Harvey

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