

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

From: Bryan Taylor ES-Lex
Sent: Friday, February 13, 2004 5:14 PM
To: Roland Gubisch ES-Box
Cc: David Schramm ES-Atl; Danielle Fontaine ES-Box; Jason Centers ES-Lex
Subject: RE: TCB Review of Orion Electronics FCC ID: EFCST0001

All,

I have attached the report with the new ERP/EIRP data. The report also now references modulation designator F9W. Also attached is the 731 form with the new ERP/EIRP data instead of the conducted values. The 731 form also now references modulation designator F9W.

I have still not received from the client any info on the voltage/current into the final RF stage or anything addressing issue #1 below. I will forward it as soon as I get it.

Have a good weekend.

Taylor

<< File: 3049826 EMC final report_signed_2.pdf >> << File: Intertek Form 731.doc >>

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

From: Roland Gubisch ES-Box
Sent: Thursday, February 12, 2004 4:09 PM
To: Bryan Taylor ES-Lex
Cc: David Schramm ES-Atl; Danielle Fontaine ES-Box
Subject: TCB Review of Orion Electronics FCC ID: EFCST0001

Bryan,

Review of this certification application is complete and the following points are noted:

ADMINISTRATIVE

1) The **request for confidentiality** includes exterior and interior photos and user manuals. These are not normally held confidential, except where the device is not available to the general public, for reasons of exclusive professional installation or government/law enforcement uses. The letter requesting confidentiality indicates that "some items are made available only to qualified government personnel..." This would indicate that some units will be available to the public, and the appearance, construction and user manuals would be readily available. Please provide adequate justification for maintaining confidentiality for the items listed above.

2) The modulation designator is given in the Form 731 and test report as G9W. The FCC convention for CDMA is F9W. Please indicate why F9W should not be used.

3) DC current and voltage data into the final RF stage per 2.1033(c)(8) cannot be found. Please indicate where this information is located, or provide it.

TECHNICAL

1) The power values listed in the Form 731 are conducted. They should be ERP for Part 22 and EIRP for Part 24. (The conducted values may be listed in a Grant note, to facilitate the use of alternate antennas.)

2) The measurements of ERP and EIRP in the test report appear unusually low for the related conducted powers. The listed ERP and EIRP correspond to antenna gains of -10 dBi (Part 22) and -14.4 dBi (Part 24) respectively. No manufacturer's information was provided for the antenna, but typical values would be positive and not negative. Consider cable losses. Please explain.

This application can proceed to certification as soon as the above issues are addressed.

Thank you,
Roland Gubisch