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January 7, 2004

Federal Communications Commission  
Authorization and Evaluation Division  
7435 Oakland Mills Road  
Columbia, Maryland 21046

Re: FCC ID: SH5-CAP

Applicant: Miltope Corporation  
Correspondence Reference Number: 15915  
731 Confirmation Number: TC348776  
Date of Original Email: 12/10/2004

Subject: Request for additional information

1. Please provide spurious radiated emissions for simultaneous and collocated operation of the two modules internal to the device.

Because the CAP configuration is capable of operating both radio modules in the 2.4 GHz band simultaneously, inter-modulation products were also evaluated. One radio module of the EUT was set to the lowest channel available and the other radio module set to the next adjacent channel. Any inter-modulation products observed were maximized and recorded. All modes of 802.11b and 802.11g radios were evaluated for worst case. This was repeated with two radio modules set to the highest possible channel and next adjacent channel available respectively.

No inter-modulation products were detected for any combinations of channel selections or modes, therefore no data was collected.

2. Please clarify how the power/cable change will be handled for the composite NII device.

Section 3-3.3 of the manual indicates that if no extension cable is present, the output power must be set to 15dBm. 15 dBm was chosen to also satisfy European requirements.

3. Please describe how a person will be able to tell in the field if they are looking at a changed or original device.

As originally certified, the device must be installed with the extension cable. The "changed" device can be either of the two distinct configurations.

Both configurations are sufficiently described in the test report and as follows:

*Configuration 1- As originally submitted*

An RG-58 extension cable of 6ft in length was added between the antennas and the CAP to reduce spurious emission levels. Peak power level for this configuration to maintain compliance is 25.4dBm.



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Correspondence Reference Number: 15916 (*cont.*)

*Configuration 2- As submitted for the Class 2 permissive change*

No extension cable between the antennas and CAP is required but is still an option. The power output must be reduced to show compliance to the radiated emission limits. Peak power level for the configuration incorporating the extension cable is 22dBm.

Either configuration 1 or configuration 2 will be utilized with the final product and installed in accordance with Section 3-3.3 of the operators guide. Any person familiar with the installation of the product will be able to tell which configuration is installed by a visual inspection.

Please let me know if any additional information or clarification is required.

Kind Regards,

A handwritten signature in black ink that reads "R. Sam Wismer". The signature is fluid and cursive, with "R." and "Sam" on the first line and "Wismer" on the second line.

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