

Application SES-LIC-20050207-00154 for new blanket authority for Ka-band VSAT network
From: Damon Ladson [DLadson@harriswiltshire.com]
Sent: Tuesday, March 01, 2005 10:42 AM
To: Trang Nguyen
Cc: Scott Kotler
Subject: RE: Application SES-LIC-20050207-00154 for new blanket authority for Ka-band VSAT network

Importance: High

Hi Trang,

I spoke with the Wildblue engineers. They do not use CDMA. They use a TDMA/FDMA scheme and therefore used "N=1" in their calculations. Also, on each of the graphs the amount below the 25.138 limit is noted in dB. Is this sufficient? If not, I can get a letter from WildBlue stating clearly that all Section 15.138(a) criteria are met. Please let me know as soon as possible the best way to proceed as the WildBlue guys are anxious. Thanks!

Best regards,

Damon

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

From: Trang Nguyen [mailto:Trang.Nguyen@fcc.gov]
Sent: Monday, February 28, 2005 2:25 PM
To: Damon Ladson
Cc: Trang Nguyen; Scott Kotler
Subject: Application SES-LIC-20050207-00154 for new blanket authority for Ka-band VSAT network

Hello Mr. Ladson,

The above-captioned application is currently under review. Staff's review of the application has revealed that there was no mention of what kind of multiple access scheme (e.g. CDMA, TDMA, or FDMA) that the network will use in relation to 47 C.F.R. section 25.138. In addition, the exhibit Section V of the application contains graphs on the proposed antennas co-polarized pattern may not have taken into consideration the multiple access scheme for the 500,000 units of the fixed satellite service. If the system is a CDMA system, the plots on the submitted antenna off-axis EIRP spectral density may be affected.

If the multiple access scheme is CDMA, please submit an amendment to contain the correct graphs of the off-axis EIRP spectral density for the proposed multiple access scheme for further review taking into consideration the 500,000 units of simultaneous users. Pursuant to Section 25.138(a)(1), it states "...the θ is the angle in degrees from the axis of the main lobe; for systems where more than one earth station is expected to transmit simultaneously in the same bandwidth, e.g. CDMA systems; the N is the likely maximum number of simultaneously transmitting co-frequency earth stations in the receive beam

of the satellite; N=1 for TDMA and FDMA systems." Also, please state whether the proposed operation meets the off-axis EIRP density criteria of Section 25.138(a).

Please submit the necessary information within 14 days business days of the date of this e-mail. Failure of the applicant to submit the necessary information within this time will result in the dismissal of the application pursuant to 47 C.F.R. 25.112(c).

Sincerely,

Trang Nguyen
(202) 418- 2734
Systems Analysis Branch
Satellite Division
International Bureau
Federal Communications Commission