

From: Buckley, Elizabeth A. [Buckley@khlaw.com]
Sent: Friday, February 17, 2006 11:51 AM
To: Eleanor Lott
Cc: Richards, Jack B.
Subject: Changes requested by HNS

Eleanor -

Below is a laundry list of the changes HNS required us to make that appear on the Satellite application. If any questions come up, I am available. Thank you and sorry that the modification application has created additional work. - Elizabeth

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- a. In the application, on page 14
change field E33/E34 to 6.1/6.1 meters
change field E38 to 300
change filed E40 to 82.1

 - b. on page 15 add the following emission code
14-14.5 GHz, Receive, H/V, 1M60G7D, 0,0, "1024 KSPS, OQPSK, INROUTE"

 - c. on page 19, point of communication should read "G3C" instead of "ALSAT"

 - d. on page 22 add the following emission code
11.7-12.2 GHz, Transmit H/V, 1M60G7D, 42.0, 16.0, "1024 KSPS, OQPSK, INROUTE"

 - e. on page 25, point of communication should read "G3C" instead of "ALSAT"

 - f. on page 29, the EIRP density associated with the 800KG7D emission code is 21.3 and not 24.3 dBW/4kHz

 - g.. on page 31, field E20 should read "no" and the points of communication should read "G3C"

 - h. on page 34, add the following emission code
11.7-12.2 GHz, Transmit H/V, 1M60G7D, 42.0, 16.0, "1024 KSPS, OQPSK, INROUTE"

 - i. on pages 36 to 42, there is a disconnect with Exhibit A. I have called the new hub "Hub-B" in the text of Exhibit A, while you have called the site and antenna as "5". The two need to be made consistent.

 - k. on page 38, E33/#34 should read 5.6/5.6 and field E35 should read 5.9 meters

 - l. on page 39 add emission code:
14-14.5 GHz, Receive, H/V, 1M60G7D, 0,0, "1024 KSPS, OQPSK, INROUTE"

In addition to the comments in the document, there is another point which I noticed as part of my review of Exhibit A that I believe merits correction in order to avoid problems later. The current license for call sign E900688 describe the current 74 cm VSATs terminals under Site ID "2" and Antenna ID "VSAT2". The same goes for the current 98 cm terminals which are identified under Site Id "3" and Antenna Id "VSAT3". I have used the same nomenclature in the Exhibit A, however, the Form 312 s uses Site ID "2" and an Antenna Id "0.74" for the 74 cm antenna and Site Id "3" and Antenna Id "0.98" for the 98 cm antenna. This is visible on pages 21-24 and 28-30 of the Form 312.

In a similar fashion, the Site Id for the hub is "1" and the Antenna Id is "Hub" in the current license but marked as "Hub-Primary" and "1" respectively in the Form 312.

Yes, I know this is a small detail, but depending on the person at IB processing the application, we may as an example finish with two antennas under Site ID "2", the old "VSAT2" as well as a new "0.74". Just to make sure that there is no confusion, I would appreciate if the Form 312 were adjusted to align the Site ID and Antenna ID with the current license.

a. Pages 13 and 41, hub antennas do not need to have G3C identified as a POC since they are compliant with 25.209 (a) and (b). These can be left as "ALSAT".

b. Pages 16, 23, 30, 37 in regards to the emission code 1M60G7D which I had provided you, I accidentally reversed the frequencies. For T (transmission) the frequency is 14000-14500 MHz and for reception the frequency band should be 11700-12200 MHz.

c. Page 28, Q33/34, the major and minor axis values should be 0.98 meters

e. Page 35, E33/34 the values for the major and minor axis should read as 0.84 and 0.69 meters respectively.

f. Page 37, in regards to the emission code 1M60G7D the EIRP density should be corrected to read 15.7 dBW/4kHz and not 16.0 dBW/4kHz. You had correctly entered the value which I provided, however given how particular the IB has gotten of late, I thought it best to give them a more precise value.

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