Anthony Serafini

From: Anthony Serafini
Sent: Thursday, February 16, 2017 10:23 AM
To: 'david.a.hinkley@aero.org'
Subject: Aerospace 0245-EX-CN-2016 IB quesitons

David

The International Bureau has the following comments and questions. Please respond to the following:

IB/SD has reviewed the subject request and has the following comments/questions:

We've reviewed the ODAR and notice that it was not signed. Applicant please submit a signed copy of the ODAR.

We also seek clarification on the cubesats names. Are the cubesats name AeroCube-11A and -11B, Aerocube-11AB or AeroCube-11A and TOMSat?

On form 442, uplink (El Segundo) the ERP value is 6908 W; however, our calculation shows an ERP of 6095 W.

Calculation: 10 dBW + 30 dBi = 40 dBW – 2.15 dB (to convert to ERP) = 37.85 dBW; divide 10 and raised to the 10 power yields 6095 W ERP. Please check this value.

On form 442, uplink (College Station,Gainsville, Kihel, Mt. Wilson, Vandenberg AFB and Logan) the ERP value is 869 W; however, our calculation shows an ERP of 1084 W.

Calculation: 9.5 dBW + 23 dBi = 32.5 dBW – 2.15 dB (to convert to ERP) = 30.35 dBW; divide 10 and raised to the 10 power yields 1084 W ERP. Please check this value for all the uplink E/S.

On the SpaceCap API, downlink, the minimum elevation angle should be 5 degrees.

Regards
Tony