

Skybox Imaging, Inc.
Earth Station Application
Amendment
March 2012

Description of Request

With this amendment, Skybox Imaging, Inc. (“Skybox”) clarifies its pending earth station license application in File No. SES-LIC-20120331-00120 in several respects. In connection with the downlink telemetry and payload beams the earth station would utilize from Skybox’s proposed non-geostationary orbit (“NGSO”) Earth Exploration Satellite Service (“EESS”) high-resolution imagery satellite system, *see* File No. SAT-LOA-20120322-00058, Skybox clarifies that the frequencies information in response to Questions E43/44 and E52/53 in Schedule B should be the center frequencies +/- 30 MHz in the case of the payload beams and the center frequencies +/- 128 kHz in the case of the telemetry beams. The frequency information is now shown correctly in the Schedule B portion of the FCC Form 312 amendment application to which this exhibit is attached.

The situation with the two telecommand uplink beams is slightly different. For these 110 kHz-wide beams, which are centered on 2081 MHz and 2083 MHz, Skybox corrects the frequency information, which was overstated in the initial application. The emission designator for these uplink channels remains correctly stated at 110KF1D, but Skybox includes this exhibit to confirm that the frequency range around each center frequency is correctly stated as +/- 103 kHz. The reason why this is not +/- 55 kHz is because Skybox compensates for Doppler effects in its telecommand beams at the earth station, rather than on the satellites in Skybox’s proposed system. Performing Doppler compensation at the transmitter means that the transmission can occur in a wider range of frequencies (center frequency +/- 103 kHz rather than center frequency +/- 55 kHz). The additional 48 kHz on each side of the center frequencies accounts for the Doppler offsets (55 kHz for half the transmission bandwidth plus 48 kHz for half the maximum Doppler offset equals the total of +/- 103 kHz). The coordination report provided with Skybox’s initial application in Call Sign E120025 accounts for this wider uplink use, so no further coordination is required now that the application has been clarified.

Finally, this amendment clarifies that the only Points of Communication to be accessed by the proposed earth station are SkySat-1 and SkySat-2, which are the two space stations for which Skybox seeks Commission approval to launch and operate as part of its proposed non-geostationary orbit Earth Exploration Satellite Service high-resolution imagery satellite system. On March 15, 2012, Skybox’s initial application for authority to operate SkySat-1 and SkySat-2 (File No. SAT-LOA-20111222-00246) was dismissed by the International Bureau without prejudice to re-filing. Skybox resubmitted the application, which remains pending before the Commission, on March 22, 2012. *See* File No. SAT-LOA-20120322-00058. All references to the SkySat satellites are now to the March 22, 2012 application.