



Federal Communications Commission
Washington, D.C. 20554

July 2, 2014

DA 14-959

Mr. Matthew Botwin, Esq.
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Call Sign: E140049
File No.: SES-LIC-20140428-00313

Dear Mr. Botwin:

On April 28, 2014, Orange Business Services U.S. Inc. (Orange) filed the above-captioned application for a fixed earth station in South Hill, VA, to operate in the 5920-6441 MHz (Earth-to-space) and 3700-4200 MHz (space-to-Earth) frequency bands with the SES-6 (call sign S2870) satellite at the 40.5° W.L. orbital location and with "ALSAT" points of communication. Pursuant to Section 25.112(a)(2) of the Commission's rules, 47 C.F.R. § 25.112(a)(2), we dismiss the application, without prejudice to refile.¹

Section 25.112(a) of the Commission's rules requires the Commission to return, as unacceptable for filing, any earth station application that is not substantially complete, contains internal inconsistencies, or does not substantially comply with the Commission's rules.² For the reasons stated below, Orange's application is unacceptable and subject to dismissal.

- ALSAT can only be authorized as a point of communication in the 5925-6425 MHz frequency band.
- The frequency coordination report submitted by Orange does not support the frequencies, the coordination arc or the equivalent isotropic radiated power (eirp) requested in FCC Form 312 - Schedule B. Orange requested, in item E33/34 of the FCC Form 312 - Schedule B, the frequency band 5920-6444 MHz, but only coordinated the frequency band 6368-6421.³ Orange requested, in item E54/E55 of the FCC Form 312 - Schedule B, a satellite coordination arc of 74° to 139° W.L., but only coordinated 40° to 41° W.L. Orange requested, in item 48 of the FCC Form 312 - Schedule B, a maximum eirp level of 45 dBW/4kHz, but only coordinated a maximum level of 25 dBW/4kHz.

¹ If Orange refiles an application identical to the one dismissed, with the exception of supplying the missing information, it need not pay an application fee. See 47 C.F.R. § 1.1111(d).


² 47 C.F.R. § 25.112(a)(1-2).

³ See page 8 of the frequency coordination report submitted with this application

- Orange states in item E58 of the FCC Form 312 - Schedule B that the earth station azimuth angle western limit of 240.8 degrees; however, the FCC's calculated the azimuth angle western limit as 251.6 degrees.
- Orange states in item E59 of the Schedule B that the earth station antenna elevation angle western limits of 32.1 degrees; however, the FCC's calculated elevation angle western limit as 14.5 degrees.
- Orange states in item E40 of the FCC Form 312 - Schedule B that the maximum total eirp for all carriers as 45 dBW, while our calculations, based on the given maximum input power at the antenna flange of 0.4 W and the antenna transmit gain of 42.2 dBi, yield 38.2 dBW.
- Orange states in item E49 of the FCC Form 312 - Schedule B that the maximum eirp per carrier of 22.0 dBW/4kHz for the emission designator 6K00G7W, while our calculations indicate the value should be 43.23 dBW/4kHz.⁴

Accordingly, pursuant to Section 0.261 of the Commission's rules on delegated authority, 47 C.F.R. § 0.261, we dismiss Orange Business Services U.S. Inc. application without prejudice to refiling.

Sincerely,



Paul E. Blais
Chief, Systems Analysis Branch
Satellite Division
International Bureau

⁴ Orange states in item E48 that the eirp per carrier is 45 dBW and the carrier bandwidth in item E47 is 6 kHz wide. Accordingly, we normalize the 6 kHz bandwidth to 4kHz by calculating $10 \cdot \log_{10}(4000/6000) = -1.76$ dB/4kHz. Then, we convert the carrier eirp to carrier eirp density/4kHz by calculating 45 dBW per carrier - 1.76 dB/4kHz = 43.23 dBW/4kHz.