



Av. Rio Branco n° 1 grupo 1608
Centro, Rio de Janeiro, RJ, Brasil
CEP. 20090-003

April 9, 2009

Ms. Marlene H. Dortch, Secretary
Office of the Secretary
Federal Communications Commission
445 12th St. N.W.
Washington, DC

RE: Engineering Certification of Telesat Brasil Capacidade de Satélites Ltda¹

This letter certifies that Telesat Brasil Capacidade de Satélites Ltda (hereinafter TBCS) has been authorized by the Commission to provide services to the United States via the Telstar 14 ("T14") satellite². TBCS is aware that ViaSat, Inc. ("ViaSat") has been granted Commission authorization to operate transmit/receive steerable antennas for aeronautical mobile-satellite service (AMSS), under Call Sign E050318, using fixed-satellite service frequencies pursuant to ITU RR 5.504A, on a non-conforming, non-interference basis³ and that ViaSat seeks to modify its FCC authorization to add T14 operating at 63° W.L. as a point of communication and add the 11.45 – 11.7 GHz downlink band to its authorization. TBCS is familiar with the technical and operating parameters of the licensed system and the conditions as defined in the Order and Authorization. TBCS acknowledges that the proposed operation has the potential to create unacceptable interference into adjacent satellite networks.

TBCS understands that, as described in ViaSat's modification application, ViaSat proposes to add a new antenna type that is very similar to the currently authorized antenna. This coordination letter covers both antenna types. Each is a transmit/receive 29.2 cm by 29.2 cm aeronautical mobile satellite service ("AMSS") steerable reflector antenna. TBCS understands that the antennas will operate within ViaSat's currently authorized AMSS network in accordance with the terms and conditions of its current authorization and that this modification application seeks no changes to the technical characteristics of the AMSS network as currently authorized that would result in an increase in the aggregate off-axis e.i.r.p. density for the uplink.

When communicating with T14, ViaSat will operate its reflector antenna within the 14.0 - 14.25 GHz FSS uplink band, and the 11.45 - 11.7 GHz FSS downlink band. ViaSat will operate using direct sequence spread spectrum so that the aggregate off-axis e.i.r.p. transmissions, from all co-frequency AES terminals within the footprint of the satellite, will be within the off-axis EIRP envelope set forth in Section 25.218(f) of the FCC's rules. The aggregate downlink e.i.r.p. density at any frequency will not exceed 10 dBW/4 kHz.

¹ Telesat Brasil Capacidade de Satélites Ltda is a wholly owned subsidiary of Telesat Canada.

² Telstar 14 is licensed by Brazil to operate at 63°WL.

³ See *ViaSat, Inc., Application for Blanket Authority for Operation of 1,000 Technically Identical Ku-Band Aircraft Earth Stations in the United States and Over Territorial Waters*, FCC File Nos. SES-LIC-20051028-01494, SES-AMD-20060314-00440, SES-AMD-20070309-00325, Order and Authorization, DA 07-4674 (rel. Nov. 20, 2007) ("Order and Authorization").



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TBCS confirms that the use of the above referenced transmit/receive reflector antennas by ViaSat, installed and operated in accordance with the conditions in ViaSat's existing license and as proposed by this modification application, is within the levels coordinated with the adjacent satellite operators within $\pm 6^\circ$ and should not cause unacceptable interference into adjacent satellites operating in accordance with the FCC's 2-degree spacing policy. TBCS will include the antennas, as described above, in all future satellite network coordinations. ViaSat shall comply with all such coordination agreements reached by the satellite operators. Furthermore, ViaSat agrees that it will accept interference from adjacent satellites to the degree to which harmful interference would not be expected to be caused to an earth station employing an antenna conforming to the reference patterns defined in Section 25.209 of FCC rules. If the use of these antennas should cause unacceptable interference into other systems, ViaSat has agreed that it will terminate transmissions immediately upon notice from the affected parties.

Very truly yours,

Flavio B. da Silva
Manager, Engineering and Regulatory
Telesat Brasil Capacidade de Satélites Ltda

Acceptance by ViaSat:

ViaSat testifies that the information provided to TBCS and reflected in this certification letter is true and accurate to the best of ViaSat's knowledge. ViaSat will comply with all coordination agreements reached by TBCS for Telstar 14.

Daryl T. Hunter, P.E.
Director, Regulatory Affairs
ViaSat, Inc.