

July 11, 2018

Ms. Marlene H. Dortch  
Secretary  
Federal Communications Commission  
445 12th Street, S.W.  
Washington, D.C. 20554

Re: Request for Special Temporary Authority  
7.3m S-band Antenna, Paumalu, Hawaii

Dear Ms. Dortch:

Intelsat License LLC (“Intelsat”) herein requests a grant of Special Temporary Authority (“STA”)<sup>1</sup> for 30 days, commencing upon grant, to utilize a 7.3m S-band antenna located at its Paumalu, Hawaii teleport to provide telemetry, tracking, and command (TT&C) restoration services for the EUTELSAT-WA (S3031)<sup>2</sup> satellite during its drift to, and operation at, 132.85° W.L. EUTELSAT-WA is currently drifting to 132.85° W.L. and should be visible from Paumalu, Hawaii by mid-July 2018. Restoration services include bi-annual testing, which will last approximately two hours per test, and TT&C services in the event the satellite’s primary Ku-band TT&C experiences an anomaly.

The EUTELSAT-WA operations will be performed in the following frequencies: 2085.688 MHz, 2090.1 MHz, and 2090.4 MHz (RHCP and Linear H) in the uplink, and 2265.0 MHz, 2269.8 MHz, and 2270.2 MHz in the downlink (RHCP and Linear H). The drift operations will be coordinated with all operators of satellites that use the same frequency bands.<sup>3</sup> In the extremely unlikely event that harmful interference should occur due to transmissions to or from its earth station, Intelsat will take all reasonable steps to eliminate the interference.

The 24x7 contact information for the EUTELSAT-WA TT&C operations is as follows:

Ph.: (703) 559-7701 – East Coast Operations Center (primary)  
(310) 525-5591 – West Coast Operations Center (back-up)

Request to speak with Harry Burnham or Kevin Bell.

In further support of this request, Intelsat herewith attaches Exhibit A, which contains technical information that demonstrates that the operation of the earth station will be compatible with its

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<sup>1</sup> Intelsat has filed its STA request, an FCC Form 159, a \$200.00 filing fee, and this supporting letter electronically via the International Bureau’s Filing System (“IBFS”).

<sup>2</sup> See *Policy Branch Information; Actions Taken*, Report No. SAT-01309, File No. SAT-PPL-20180302-00018 (Apr. 6, 2018) (Public Notice).

<sup>3</sup> Telespazio, the manager of the EUTELSAT-WA mission, will handle the coordination.

electromagnetic environment and will not cause harmful interference into any lawfully operating commercial terrestrial facility.

The U.S. Table of Frequency Allocations<sup>4</sup> allocates the 2025-2100 MHz band for Fixed, Mobile, and Federal use. The 2200-2290 MHz is allocated to Federal services (Space Operations, Earth Exploration-Statellite, Fixed, Mobile, and Space Research). In order to ensure Intelsat can provide TT&C restoration services in these bands, Intelsat requests waiver of the U.S. Table of Frequency Allocations to permit its 7.3m S-band antenna in Paumalu, Hawaii to communicate with EUTELSAT-WA for the limited purpose of emergency TT&C restoration.

The Commission may grant a waiver for good cause shown.<sup>5</sup> The Commission typically grants a waiver where the particular facts make strict compliance inconsistent with the public interest.<sup>6</sup> In granting a waiver, the Commission may take into account considerations of hardship, equity, or more effective implementation of overall policy on an individual basis.<sup>7</sup> Waiver is therefore appropriate if special circumstances warrant a deviation from the general rule, and such a deviation will serve the public interest. As shown below, good cause exists here to grant a waiver to allow Intelsat's 7.3m S-band antenna to provide TT&C restoration services for EUTELSAT-WA using three small carriers within the 2025-2100 MHz and 2200-2290 MHz bands. Additionally, the anticipated operation of these carriers will be for a few hours of testing annually, as prolonged transmission would only occur in cases of spacecraft anomaly.

Good cause exists to waive the Table of Allocations for 2025-2100 MHz and 2200-2290 MHz frequency bands. The EUTELSAT-WA satellite is designed with its contingency TT&C frequencies in S-band, consistent with the allocation of ITU Region 1, where the satellite previously operated. As the spacecraft is now in orbit, it is not possible to change the contingency TT&C frequencies.

Moreover, grant of this waiver is consistent with the Commission's precedent. A waiver of the Table of Allocations is generally granted "when there is little potential interference into any service authorized under the Table of Frequency allocations and when the nonconforming operator accepts any interference from authorized services."<sup>8</sup> As noted above, in the 2025-2100 MHz band, the Paumalu, Hawaii S-band antenna will transmit only a few hours per year unless there is an anomaly on the spacecraft. In the

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<sup>4</sup> See 47 C.F.R. § 2.106.

<sup>5</sup> 47 C.F.R. §1.3.

<sup>6</sup> *N.E. Cellular Tel. Co. v. FCC*, 897 F.2d 1164, 1166 (D.C. Cir. 1990) ("*Northeast Cellular*").

<sup>7</sup> *WAIT Radio v. FCC*, 418 F.2d 1153, 1159 (D.C. Cir. 1969); *Northeast Cellular*, 897 F.2d at 1166.

<sup>8</sup> See *The Boeing Company*, Order and Authorization, 16 FCC Rcd 22645, 22651 (Int'l Bur. & OET 2001); *Application of Fugro-Chance, Inc. for Blanket Authority to Construct and Operate a Private Network of Receive-Only Mobile Earth Stations*, Order and Authorization, 10 FCC Rcd 2860 (Int'l Bur. 1995) (authorizing MSS in the C-band); see also *Application of Motorola Satellite Communications, Inc. for Modification of License*, Order and Authorization, 11 FCC Rcd 13952-13956 (Int'l Bur. 1996) (authorizing service to fixed terminals in bands allocated the mobile satellite service).

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event an anomaly occurs, all efforts will be made to immediately regain use of the Ku-band TT&C. Additionally, in 2200-2290 MHz band, Intelsat agrees to accept any level of interference into this earth station from Federal users in the band.<sup>9</sup>

Grant of this STA request will allow Intelsat to provide emergency restoration TT&C services to the EUTELSAT-WA spacecraft, which will ensure safe station-keeping of the satellite and thereby promotes the public interest.

Please direct any questions regarding this STA request to the undersigned at (703) 559-6949.

Respectfully submitted,

*/s/ Cynthia J. Grady*

Cynthia J. Grady  
Regulatory Counsel  
Intelsat US LLC

cc: Paul Blais

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<sup>9</sup> The Commission previously has authorized temporary commercial use of 2200-2290 MHz on this basis. *See Policy Branch Information; Actions Taken, Report No. SES-02071, File No. SES-STA-20180530-01000 (June 20, 2018) (Public Notice).*