PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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Report No. SAT-01325 **Friday June 29, 2018**

Satellite Policy Branch Information

Space Station Applications Accepted for Filing

The applications listed below have been found, upon initial review, to be acceptable for filing. The Commission reserves the right to return any of the applications if, upon further examination, it is determined that the application is not in conformance with the Commission's rules or its policies. Consideration of each satellite application in this Public Notice may depend on the Commission's action on another satellite application earlier in the queue. Petitions, oppositions, and other pleadings filed in response to this notice should conform to Section 25.154 of the Commission's rules, unless otherwise noted. 47 C.F.R. § 25.154.

SAT-AMD-20180102-00001 E S2946 Spire Global, Inc.
Date Filed: 01/02/2018 03:26:50:64000
Amendment

Spire Global, Inc. amends its pending request to construct, deploy and operate its LEMUR non-geostationary orbit (NGSO) earth exploration satellite service (EESS) constellation. The Satellite Division previously granted in part Spire's request and authorized 28 satellites Phase 1 and 100 Phase IB and IC satellites, but deferred action on its request with respect to 872 additional Phase II satellites. See IBFS File Nos. SAT-LOA-20151123-00078 & SAT-AMD-20161114-00107. The satellites in the LEMUR constellation are proposed to operate with orbital altitudes from 385 to 650 km and with inclinations ranging from equatorial to polar sun-synchronous (98 degrees).

For its Phase II satellites, Spire requests authority to operate data downlinks (space-to-Earth) in the 8025-8400 MHz (primary), 2020-2025 MHz, and 2200-2290 MHz frequency bands and to operate data uplinks (Earth-to-space) in the 2025-2110 MHz frequency band. Spire requests authority to conduct telemetry, tracking and command operations for satellites in the 399.9-400.05 MHz (Earth-to-space, back up), 401-402 MHz (space-to-Earth), 402-403 MHz (Earth-to-space), and 449.75-450.25 MHz (Earth-to-space) frequency bands.

For Phase II and Phase IB and IC satellites, Spire seeks to receive Automatic Identification System (AIS) signals the 156.7625-156.7875 MHz (AIS 3), 156.8125-156.8375 MHz (AIS 4), 161.9625-161.9875 MHz (AIS 1), and 162.0125-162.0375 MHz (AIS 2) frequency bands; to receive Application Specific Messages (ASM) signals in the 161.9375-161.9625 MHz (ASM 1) and 161.9875-162.0125 MHz (ASM 2) frequency bands; and to receive Automatic Dependent Surveillance-Broadcast (ADS-B) signals in the 1087.7-1092.3 MHz frequency band. Spire also requests receive-only authority for Atmospheric and Land Surface Profiling in the 1164-1300 MHz and 1559-1610 MHz bands.

In connection with its requests, Spire seeks a waiver of the U.S. Table of Frequency Allocations, Section 2.106, for the use of 402-403 MHz (Earth-to-space) and 2020-2025 MHz (space-to-Earth) frequency bands on a non-conforming, non-interference basis. Spire incorporates by reference its previous request for a waiver of the U.S. Table of Frequency Allocations, Section 2.106, to receive these AIS, ASM, and ADS-B signals until the bands are allocated in the U.S. Table of Frequency Allocations. Spire also requests a limited waiver of Section 25.114(c) of the Commission's rules, which requires certain information to be filed in the Schedule S.

We seek comment on, but defer a determination on, Spire's request for a waiver of Section 25.157(a), the Commission's processing round rules, for its proposed use of the 399.9-400.05 MHz frequency band as a Non-Voice, Non-Geostationary (NVNG) Mobile-Satellite Service (MSS).

Spire also amends its application to state its intent to launch satellites having slightly different mass and surface areas due to the inclusion of new radios, antennas, and power systems. Spire also requests authority to measure the refraction, reflection, and other distortion of signals, for the purpose of inferring atmospheric and land surface properties through space station receivers aboard its authorized twenty-eight Phase IB and seventy-two Phase IC satellites, as well as its 872 Phase II satellites.

SAT-LOA-20161115-00121 E S2986 Theia Holdings A, Inc.
Date Filed: 11/15/2016 22:45:34:66000
Launch and Operating Authority

In Public Notice DA 17-524, the application of Theia Holdings A, Inc. to operate a non-geostationary, fixed-satellite service system was accepted for filing in part and deferred in part. An acceptability determination was deferred with respect to Theia's request to operate in the 19.3-19.6 GHz and 29.1-29.5 GHz bands because of potential conflicts with Nos. 5.523B and 5.535A of the ITU Radio Regulations. Footnote 5.523B, however, applies only to the uplink direction in the 19.3-19.6 GHz band and not to the downlink operations requested by Theia. Accordingly, we accept for filing Theia's request to operate in the 19.3-19.4 GHz band; we defer an acceptability determination on Theia's request to operate in the 19.4-19.6 GHz band because it conflicts with footnote NG166 of the U.S. Table of Frequency Allocations, 47 CFR § 2.106, and we continue to defer its request to operate in the 29.1-29.5 GHz band due to inconsistency with No. 5.535A of the ITU Radio Regulations.

SAT-MOD-20180319-00022 E S2963 WorldVu Satellites Limited

Date Filed: 03/19/2018 20:21:27:20000

Modification

WorldVu Satellites Limited (d/b/a OneWeb) has petitioned to modify the U.S. market access granted to its proposed non-geostationary, fixed-satellite service system in the 10.7-12.7 GHz, 14-14.5 GHz, 17.8-18.6 GHz, 18.8-19.3 GHz, 27.5-29.1 GHz, and 29.5-30 GHz frequency bands. OneWeb seeks to increase the number of active satellites in its approved constellation from 720 to 1,980 and to have the additional satellites be given equal treatment with those filed in the processing round initiated in Public Notice DA 16-804. OneWeb also seeks waiver of section 25.157(c) of the Commission's rules to the extent necessary.

SAT-PDR-20161115-00112 E S2979 LeoSat MA, Inc.

Date Filed: 11/15/2016 16:11:49:31600

Petition for Declaratory Ruling

In Public Notice DA 17-524, LeoSat MA, Inc.'s petition for U.S. market access for its proposed non-geostationary, fixed-satellite service system was accepted for filing in part and deferred in part. An acceptability determination was deferred with respect to LeoSat's request to operate in the 19.3-19.6 GHz band because of a potential conflict with No. 5.523B of the ITU Radio Regulations. Footnote 5.523B, however, applies only to the uplink direction in the 19.3-19.6 GHz band and not to the downlink operations requested by LeoSat. Accordingly, we accept for filing LeoSat's request to operate in the 19.3-19.4 GHz band; we defer an acceptability determination on LeoSat's request to operate in the 19.4-19.6 GHz band because it conflicts with footnote NG166 of the U.S. Table of Frequency Allocations, 47 CFR § 2.106.

For more information concerning this Notice, contact the Satellite Division at 202-418-0719; TTY 1-888-835-5322.