



PUBLIC NOTICE

FEDERAL COMMUNICATIONS COMMISSION
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DA No. 24-506

Friday May 31, 2024

Report No. SAT-01825

Satellite Licensing Division and Satellite Programs and Policy Division Information

Actions Taken

The Commission, by its Space Bureau, took the following actions pursuant to delegated authority. The effective date of these actions is the release date of this Notice, except where an effective date is specified.

SAT-AMD-20240329-00070 E S3186 Umbra Lab Inc
Amendment
Granted in Part/ Deferred in Part Effective Date: 05/27/2024

Nature of Service: Earth Exploration Satellite Service

See ICFS File No. SAT-LOA-20240222-00038 for a description of the action taken.

SAT-AMD-20240417-00080 E S3184 Loft Orbital Solutions Inc.
Amendment
Grant of Authority Effective Date: 05/30/2024

Nature of Service: Earth Exploration Satellite Service

See ICFS File No. SAT-LOA-20240202-00021 for a description of the action taken.

SAT-AMD-20240418-00083 E S3178 Capella Space Corp.
Amendment
Grant of Authority Effective Date: 05/24/2024

Nature of Service: Earth Exploration Satellite Service

See ICFS File No. SAT-MOD-20240329-00071 for a description of the action taken.

SAT-LOA-20240202-00021 E S3184 Loft Orbital Solutions Inc.
Launch and Operating Authority
Grant of Authority Effective Date: 05/30/2024

Nature of Service: Earth Exploration Satellite Service

On May 30, 2024, the Satellite Programs and Policy Division granted, with conditions, the request of Loft Orbital Solutions, Inc. to deploy and operate one non-geostationary satellite in the Earth exploration-satellite service (EESS) and space operation service, to be known as YAM-7, with a deployment altitude of approximately 510km (+/- 20 km) and 97.6 (±0.1) degrees inclination. The Division authorized Loft Orbital to continue to operate in the EESS as the YAM-7 deorbits, until the satellite is in an orbit with a perigee of 350 km. The YAM-7 satellite is authorized to operate using the 2025-2110 MHz (Earth-to-space), 2200-2290 MHz (space-to-Earth), and 8025-8400 MHz bands. Specifically, Loft Orbital is authorized to operate with a center frequency of 2070.0 MHz with 99 kHz and 132 kHz bandwidths for telemetry, tracking, and command (TT&C) during launch and early orbit operations (LEOP); with a center frequency of 2097.5 MHz with 1.0 and 5.0 MHz bandwidths for EESS and command uplink post-LEOP; with a center frequency of 2230.0 MHz with 5 MHz bandwidth for EESS and TT&C; and with a center frequency of 8125.0 MHz with 100 MHz bandwidth for EESS and TT&C. The YAM-7 satellite is also authorized to operate in the 449.75-450.25 MHz band for back-up TT&C, using center frequencies of 450.125 MHz and 450.2 MHz, each with 17 kHz and 8.5 kHz bandwidths; as well as in the 400.15-401 MHz (space-to-Earth) band using a center frequency 400.875 MHz and 34 kHz emission bandwidth; and in the 401-402 MHz (space-to-Earth) band using center frequencies 401.017 MHz, 401.085 MHz, 401.155 MHz, 401.225 MHz, 401.375 MHz, 401.4375 MHz, 401.5 MHz, and 401.015 MHz, each with 34 kHz bandwidth. This application was granted under the streamlined small satellite procedures, 47 CFR § 25.122.

SAT-LOA-20240222-00038

E S3186

Umbra Lab Inc

Launch and Operating Authority

Granted in Part/ Deferred in Part

Effective Date: 05/27/2024

Nature of Service: Earth Exploration Satellite Service

On May 27, 2024, the Satellite Programs and Policy Division granted-in-part and deferred-in-part, with conditions, the request of Umbra Lab, Inc. for authorization to deploy and operate two non-geostationary satellites in the Earth exploration-satellite service (EESS), to be known as Umbra Block 2.1, with a deployment altitude of approximately 590km, operating altitudes between 505 to 565 km with an inclination of 97.4 degrees (± 0.1 degrees). The Division also authorized Umbra to continue to operate in the EESS, including for synthetic aperture radar (SAR) imaging as the satellites deorbit until the satellites are in orbits with a perigee of 325 km. The Umbra Block 2.1 satellites are authorized to conduct telemetry, tracking, and command (TT&C) operations in the 2025-2110 MHz (Earth-to-space) frequency bands, TT&C operations with earth stations outside of the U.S. in the 2200-2290 MHz (space-to-Earth) frequency band, EESS operations in the 8025-8400 MHz (space-to-Earth) frequency band, and SAR operations in the 9300-9900 MHz and 9200-10400 MHz frequency bands. This application was granted under the streamlined small satellite procedures, 47 CFR § 25.122.

SAT-MOD-20240329-00071

E S3178

Capella Space Corp.

Modification

05/24/2024 - 04/12/2030

Grant of Authority

Effective Date: 05/24/2024

Nature of Service: Earth Exploration Satellite Service

On May 24, 2024, the Satellite Programs and Policy Division granted, with conditions, the request of Capella Space Corp. for modification of Capella's license for a non-geostationary orbit satellite system to deploy and operate two additional space stations, Acadia-5 and Acadia-6, at an altitude of approximately 550 kilometers (+/- 50 kilometers) and inclination between 95 and 99 degrees. The Division also modified Capella's license to authorize Capella to conduct Earth exploration-satellite service (EESS) operations, including for synthetic aperture radar (SAR), as its four Acadia satellites deorbit, to altitudes as low as approximately 350 km. Capella is authorized to operate in the following frequency bands: 9300-10000 MHz (space-to-Earth) for SAR imaging; 8025-8400 MHz (space-to-Earth) for the EESS downlink; 2025-2110 MHz (Earth-to-space) for a telemetry, tracking, and command (TT&C) uplink; 8025-8400 MHz (space-to-Earth) for a TT&C downlink; and 1525.0-1559.0 MHz receiving (space-to-space) and 1626.5-1660.0 MHz transmitting (space-to-space) for inter-satellite links with the Inmarsat system, including all the satellites on the Commission's "ISAT" list. Specifically, Capella is authorized to operate using a center frequency of 9650 MHz and bandwidths from 10 MHz to 700 MHz for SAR imaging, a center frequency of 8212.5 MHz and bandwidth of 337.5 MHz for its payload downlink, a center frequency of 2036 MHz and bandwidth of 1.4 MHz for its TT&C uplink, and a center frequency of 8027 MHz and bandwidth of 1.4 MHz for its TT&C downlink. In addition, Capella is granted temporary authority for the Acadia-5 and Acadia-6 satellites to receive a signal from a single earth station in the 9400-9900 MHz band (Earth-to-space) for a limited period following deployment in order to radiometrically calibrate radar measurements.

SAT-STA-20240523-00109

E S2406

Intelsat License LLC

Special Temporary Authority

Grant of Authority

Effective Date: 05/30/2024

On May 30, 2024, the Satellite Programs and Policy Division granted, with conditions, special temporary authority for a period of 60 days, for Intelsat License LLC to operate Intelsat 902 in a ± 0.1 degree east-west station keeping box at the 50.1° W.L. orbital location.

For more information concerning this Notice, contact the Satellite Licensing Division and Satellite Programs and Policy Division at (202) 418-0719.