Description of Experimental Program

Global Eagle Telecom Licensing Subsidiary, LLC ("Global Eagle") seeks experimental special temporary authority for a period of six months to conduct antenna testing using a single 1.2-meter Ku-band antenna at Dallas, Texas. Global Eagle is currently conducting testing pursuant to an STA issued by the FCC's International Bureau for a 30-day period expiring on February 19, 2020. Because Global Eagle does not have a long-term requirement to operate the 1.2-meter antenna at its current location, it is not seeking a permanent satellite earth station license at this time, and the International Bureau is limited to granting it an STA of thirty days duration under Section 25.120 of the Commission's Rules. Global Eagle nonetheless anticipates that its antenna testing program could last up to 180 days.

Accordingly, it is more administratively efficient, as well as cost-effective, for Global Eagle to seek longer term authority from the Office of Engineering and Technology to operate under an experimental STA of six months duration in lieu of seeking multiple 30-day STAs from the International Bureau. The purpose of the testing, as described in the accompanying OET STA form, is to evaluate new equipment for possible future use with Global Eagle's existing ESAA network (Call Sign E080100), including assessment of approaches to achieve improved data throughput. Technical parameters for the test are provided on the final page of this exhibit.

Request for Waiver of U.S. Footnote NG52

In order to permit these operations, Global Eagle respectfully requests a waiver of Footnote NG52 of the U.S. Table of Allocations¹ to permit the earth station to receive signals in the extended Ku-band at 11.45-11.7 GHz that originate from a U.S. domestic earth station located at Holmdel, New Jersey (Call Sign E070218). Such a waiver was granted by the International Bureau in its January 17, 2020 grant of the 30-day STA issued to Global Eagle in File No. SES-STA-20200114-00029.²

A waiver of the rules is necessary because Footnote NG52 expressly limits "use of the bands 10.7-11.7 GHz (space-to-Earth) ... by geostationary satellites in the fixed-satellite service (FSS) ... to international systems, i.e., other than domestic systems." As the planned test involves downlink transmissions from the AMC-6 satellite located at 83° West longitude in the U.S. domestic geostationary arc, and that space station does not have permission to transmit signals between domestic earth stations under its FCC license (S2347, FCC File No. SAT-MOD-

¹ See 47 C.F.R. §2.106, footnote NG52.

² See also FCC Public Notice, Satellite Communications Services Information, Actions Taken, Report No. SES-02235, at 38 (released January 22, 2020).

³ 47 C.F.R. §2.106, footnote NG52.

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20170628-00102), Global Eagle requires a narrow waiver of the rule to permit the planned operations. As the International Bureau has already granted such a waiver, it is reasonable to expect that OET can adopt a waiver on the same grounds.

The requested waiver continues to be in the public interest because it will facilitate the gathering of antenna performance information that is expected to permit enhancement of both international and domestic satellite services offered to small user terminals. Moreover, grant of the requested waiver will not undermine the purpose of the limitation to international operations, which is intended to avoid over-use of the extended Ku-band downlink by excluding domestic-only transmissions. The requested authority is consistent with this objective in that (1) AMC-6 is already authorized to use the requested frequencies for international operations, and therefore has existing transmit operations in the band to U.S. locations, (2) the use is limited to a single antenna location, and (3) the use is of limited duration. Accordingly, Global Eagle requests that Experimental STA be granted expeditiously for a period of six months, commencing February 20, 2020 and extending until August 20, 2020. Action prior to February 20, 2020 is necessary because the current International Bureau STA expires on February 19, 2020.

Antenna Test Technical Parameters

Antenna Specifications

Manufacturer	Model	Size	Antenna Gain
Skyware Global	Type 123, Class II, Ku-	1.2 meters	Rx: 41.8 dBi @ 12.0 GHz,
	Band Tx/Rx Antenna		Tx: 43.2 dBi @ 14.3 GHz

Antenna Location

Geographic Coordinates	AGL (meters)	AMSL (meters)	Building Height	Height Above Rooftop
32°50'51.4"N 96°51'56.2"W	32.9	145.0	31.7	3 meters

Frequency Use

Band (GHz)	Mode	Polarization	Emission	Max EIRP	Max EIRP Density
				per carrier	Per Carrier
11.45 – 12.2	Receive	Vertical linear	72M0G7W		
14.00- 14.5	Transmit	Horizontal linear	36M0G7W	57.0	-12.78

Point of Communication Data

Satellite	Orbital Location	Azimuth (°)	Elevation (°)
AMC-6	83°W.L.	155.6	48.9