

**Before the  
FEDERAL COMMUNICATIONS COMMISSION  
Washington, DC 20554**

In the Matter of

Application of Speedcast Communications,            ) Call Sign: E050018  
Inc. to Modify its Fixed Earth Station License        )  
by Adding New Antennas                                    ) File No. SES-MOD-\_\_\_\_\_

**APPLICATION TO MODIFY FIXED EARTH STATION LICENSE**

Pursuant to Section 25.117 of the rules of the Federal Communications Commission (the “FCC” or “Commission”),<sup>1</sup> Speedcast Communications Inc. (“Speedcast”, formerly “NewCom International Inc.”) respectfully files this application to modify its existing fixed earth station license, Call Sign E050018, to add two (2) new earth stations at its Miami teleport which will communicate with the Commission’s space station Permitted List.<sup>2</sup> Specifically, Speedcast seeks to add a Vertex 6.1m antenna and an ASC Signal 5.6m antenna in the 11.7-12.2 GHz band (space-to-Earth) and 14.0-14.5 GHz band (Earth-to-space). Speedcast does not seek to modify any of the technical or carrier parameters related to any existing antenna operating under Call Sign E050018. Grant of this modification will serve the public interest by enabling Speedcast to optimize its ground station infrastructure to provide higher quality service to its customers, while meeting its growing business needs.

**I. Discussion**

**A. Antenna Parameters**

This proposed modification seeks authority to add two (2) new antennas at Speedcast’s Miami teleport. Specifically, Speedcast seeks to operate a Vertex 6.1m antenna and an ASC

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<sup>1</sup> 47 C.F.R. § 25.117.

<sup>2</sup> Speedcast is already authorized to use the conventional Ku-band at its Miami teleport facility. *See* Newcom International, Inc., File No. SES-MOD-20190225-00190, Call Sign E050018 (granted March 18, 2021) (“Miami Teleport License”).

Signal 5.6m antenna in the 11.7-12.2 GHz band (space-to-Earth) and 14.0-14.5 GHz band (Earth-to-space) frequency bands, both of which have previously been licensed by the Commission in these frequency bands.<sup>3</sup> Speedcast further certifies compliance with §25.209(a) and (b), and that power density into each antenna will not exceed  $-14$  dBW/4 kHz.<sup>4</sup> Accordingly, both antennas will operate in conformance with the routine uplink parameters specified in the Commission's rules.

Operation of the additional earth stations will be fully consistent with the Commission's spectrum management policies, including two-degree satellite spacing, and will not adversely affect the operations of other spectrum users. In the FCC Form 312 Schedule B and Technical Appendix, Speedcast provides relevant information relating to the proposed operations, including the Ku-band frequencies and power levels, and radiation hazard analyses.

#### **B. FAA Notification**

Pursuant to 47 C.F.R. §17.14 (a) and (b), FAA notification is not necessary because (i) the proposed antennas will be shielded by existing permanent structures of a substantial character, and (ii) because the antennas will be located in a heavily congested area of Miami where they will not adversely affect safety in air navigation.

## **II. Public Interest Considerations**

The addition of the new earth stations at the Miami teleport will serve the public interest by allowing Speedcast to restructure its ground station operations to provide more efficient services to its customers. This, in turn, will facilitate improved satellite services to companies

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<sup>3</sup> See, e.g., *Radio Station Authorization of SES Americom, Inc.*, SES-MOD-20090505-00551, Call Sign E930436 (authorizing use of the Vertex 6.1 antenna); see also *Radio Station Authorization of Globecom License Sub, LLC*, SES-MOD-20101014-01388, Call Sign E020288 (authorizing use of the ASC Signal 5.6 antenna (a.k.a. Andrew Corp. 5.6m antenna) in conventional Ku-band frequencies).

<sup>4</sup> See 47 C.F.R. §§ 25.209, 25.212(c).

and personnel in industries that rely on satellite connectivity for critical operational and employee support at remote locations that may be unable to obtain communications services through alternative facilities. Moreover, adding the ASC Signal 5.6 and Vertex 6.1 antenna to the Miami Teleport License will allow Speedcast to provide more flexible services to its customers in the United States by accelerating its ability to troubleshoot and resolve network or equipment issues. In addition, operation of the new earth stations will be fully consistent with the Commission's spectrum management policies, including two-degree satellite spacing, and will not adversely affect the operations of other spectrum users.

### **III. Conclusion**

Based on the foregoing, Speedcast requests that the Commission grant this modification application to add two (2) new earth stations at the Miami teleport – the ASC Signal 5.6 and Vertex 6.1 antennas – for conventional Ku-band operations.