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BY HAND DELIVERY

September 13, 2018

Received-FCC

SEP 13 2018

Chief, Mobility Division

Roger Noel

445 12th St SW Federal Communications Commission Wireless Telecommunications Bureau Bureau / Office

Washington, DC 20554

Re: to Allow Equipment Authorization of an Aeronautical Mobile Satellite Service Thrane & Thrane A/S Trading as Cobham SATCOM Request for Waiver of Part 87 Rules Transceiver and Satellite Data Unit (AVIATOR 700D)

Dear Mr. Noel:

unique or unusual factual circumstances of the instant case, application of the rule(s) would be underlying purpose of the rule(s) would not be served or would be frustrated by application to reasonable alternative."1 inequitable, unduly burdensome or contrary to the public interest, or the applicant has no the instant case, and that a grant of the waiver would be in the public interest or; [i]n view of 5035A supports Inmarsat Classic Aero. Under Section 1.925, the FCC may grant waiver if "[t]he ("5040A"); (b) a satellite data unit, the 5035A ("5035A"); and (c) a 5014A High Power Amplifier aeronautical-mobile satellite service ("AMSS") transceiver, the 5040A Satellite BGAN Unit permit certification of its next-generation ROJ-AVIATOR 700 device, which contains (a) an 87.131, 87.137, 87.139(i)(1) note 2, 87.139(i)(3), and 87.141(j) of the Commission's Rules to SATCOM ("Thrane & Thrane" or "Cobham"), by its attorney, hereby requests waiver of Sections The 5040A will support the Inmarsat SwiftBroadband aircraft communications service, and the Pursuant to Section 1.925 of the Commission's Rules, Thrane & Thrane A/S Trading as Cobham

and Rockwell Collins, Inc. to permit authorization of similar equipment, finding "waiver would higher transmission speeds and more efficient modulation techniques of newer AMSS be in the public interest" because "current Part 87 rules do not allow for the wider bandwidth The FCC has granted similar waivers of the Part 87 rules to EMS, Honeywell International, Inc.

<sup>47</sup> C.F.R. § 1.925(b)(3).

authorization for the HST-2110B and HST-2120B transceivers, FCC ID AJK8222232 and AJK8222234 (2008): Telecommunications Bureau (Stamp Grant Apr. 29, 2010) ("EMS Stamp Grant"); Rockwell Collins, Inc. equipment Honeywell International, Inc. equipment authorization for the HD-128 transceiver, FCC ID GB8HD-128 (2007) See Letter dated April 9, 2010, from Bruce A. Olcott to James Shaffer, Mobility Division, Wireless

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provide high-speed data and voice capabilities on aircraft. systems."3 Grant here would also serve the public interest by allowing the AVIATOR 700 to

## Description of the Equipment

16QAM. The 5014A High Power Amplifier combines and amplifies the 5040A signals for BPSK, QPSK and 16QAM. The 5035A generates the Classic Aero signals using BPSK, QPSK and The 5040A, part of the AVIATOR 700 system, supports Inmarsat SwiftBroadband signals using

applicable requirement of RTCA/DO-210D "Minimum Operational Performance Standard for SwiftBroadband functionality. The AVIATOR 700 System functions in the 1525-1559 MHz packet-mode data. In addition, the system provides one channel of Swift64 and one channel of Characteristics 741 and/or 781. Geosynchronous Orbit Aeronautical Mobile Satellite Services (AMSS) Avionics" as well as ARINC receive band and 1626.5-1660.5 MHz transmit band. Additionally, the transceiver meets the supporting two simultaneous full-duplex circuit mode voice connections and one channel The AVIATOR 700 system provides five baseband communication channels capable of

bandwidths of which this equipment is capable efficient modulation techniques."4 Grant of the instant waiver request would serve the public acknowledged, Inmarsat's SwiftBroadband service "offers higher data rates by utilizing more interest because the Part 87 rules have not yet been updated to reflect the emission types and to output power, spurious emissions, intermodulation and frequency stability. As the FCC has The 5040A transceiver will meet the technical requirement of Part 87 AMSS rules with respect

requested is attached under the company's letterhead. A copy of FCC Form 159 showing payment of the \$210 waiver fee is enclosed A more detailed description of the equipment and the specific rules for which waiver is

Use of Aeronautical Mobile Satellite Service Transceiver, 26 FCC Rcd 8824 (WTB 2011). Request of EMS Technologies Canada, Ltd. for Waiver of Part 87 Emission Mask to Allow Certification and

<sup>&</sup>lt;sup>4</sup> EMS Stamp Grant, at 2.

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Please contact me with any questions.

Respectfully,

1s/David E. Hilliard

David E. Hilliard