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BY HAND DELIVERY

September 13, 2018

Bureau / Office SEP 13 2018

eceived-FCC STRAIMED & BUSTONES R. Naker - 12

Roger Noel

Chief, Mobility Division

Federal Communications Commission Wireless Telecommunications Bureau

445 12th St SW

Washington, DC 20554

Thrane & Thrane A/S Trading as Cobham SATCOM Request for Waiver of Part 87 Rules Transceiver (AVIATOR 200/300/350 Series) to Allow Equipment Authorization of an Aeronautical Mobile Satellite Service

Dear Mr. Noel:

SwiftBroadband aircraft communications service the 5040A Satellite BGAN Unit ("5040A"). The transceiver will support the Inmarsat certification of its next-generation aeronautical-mobile satellite service ("AMSS") transceiver, 87.131, 87.137, 87.139(i)(1) note 2, and 87.141(j) of the Commission's Rules to permit SATCOM ("Thrane & Thrane" or "Cobham"), by its attorney, hereby requests waiver of Sections Pursuant to Section 1.925 of the Commission's Rules, Thrane & Thrane A/S Trading as Cobham

waiver would be in the public interest or; [i]n view of unique or unusual factual circumstances contrary to the public interest, or the applicant has no reasonable alternative."1 of the instant case, application of the rule(s) would be inequitable, unduly burdensome or not be served or would be frustrated by application to the instant case, and that a grant of the Under Section 1.925, the FCC may grant waiver if "[t]he underlying purpose of the rule(s) would

be in the public interest" because "current Part 87 rules do not allow for the wider bandwidth, and Rockwell Collins, Inc. to permit authorization of similar equipment, 2 finding "waiver would higher transmission speeds and more efficient modulation techniques of newer AMSS The FCC has granted similar waivers of the Part 87 rules to EMS, Honeywell International, Inc.

⁴⁷ C.F.R. § 1.925(b)(3).

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

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high-speed data and voice capabilities on aircraft. systems."3 Grant here would also serve the public interest by allowing the 5040A to provide

Description of the Equipment

and 350 differ in that each uses a different antenna. The electronics are the same Diplexer ("HLD") combines and amplifies the 5040A signals for transmission. Models 200, 300, signals using BPSK, QPSK and 16QAM. The 5016A High Power Amplifier, Low Noise Amplifier, The 5040A, part of the AVIATOR 200/300/350 system, supports Inmarsat SwiftBroadband

transceiver meets the applicable requirement of RTCA/DO-210D "Minimum Operational supporting simultaneous full-duplex of SwiftBroadband functionality. The System functions in Avionics" as well as ARINC Characteristic 781. Performance Standard for Geosynchronous Orbit Aeronautical Mobile Satellite Services (AMSS the 1525-1559 MHz receive band and 1626.5-1660.5 MHz transmit band. Additionally, the The AVIATOR 200/300/350 systems provide one baseband communication channel capable of

SwiftBroadband emission types and bandwidths 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 Inmarsat efficient modulation techniques."4 Grant of the instant waiver request would serve the public 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

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

⁴ EMS Stamp Grant, at 2 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

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Please contact me with any questions.

Respectfully,

1s1 David E. Hilliard

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