



1776 K STREET NW
WASHINGTON, DC 20006
PHONE 202.719.7000

www.wileyrein.com

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Jennifer D. Hindin
202.719.4975
jhindin@wileyrein.com

VIA ELECTRONIC FILING

Marlene H. Dortch
Secretary
Federal Communications Commission
445 Twelfth Street, S.W.
Washington, D.C. 20554

Re: Iridium Constellation LLC; Application for Modification of NGSO Mobile Satellite Service System Authorization (S2110) To Launch and Operate Replacement Satellites; File No. SAT-MOD-20131227-000148; Call Sign S2110;

Dear Ms. Dortch,

Iridium Constellation LLC ("Iridium"), by its counsel, hereby supplements the above-captioned application seeking authority to launch and operate Iridium's second generation satellite system, Iridium NEXT.

On April 27, 2015, the Commission released a Report and Order, Order, and Notice of Proposed Rulemaking ("R&O") that implemented decisions of the World Radiocommunication Conferences held in 2007 and 2012.¹ In the R&O, the Commission adopted an out-of-band emission ("OOBE") limit for intersatellite service links that transmit in the 22.55-23.55 GHz band. For non-geostationary satellite orbit ("NGSO") space stations for which the ITU's Radiocommunication Bureau receives advance publication information before January 1, 2020, the OOBE limit is -36 dBW/200 MHz.² A summary of the R&O was published in the Federal Register on July 7, 2015,³ and the OOBE limit became effective on August 6, 2015.

¹ *Amendment of Parts 1, 2, 15, 25, 27, 74, 78, 80, 87, 90, 97, and 101 of the Commission's Rules Regarding Implementation of the Final Acts of the World Radio Communication Conference (Geneva, 2007) (WRC-07), Other Allocation Issues, and Related Rule Updates*, Report and Order, Order, and Notice of Proposed Rulemaking, ET Docket Nos. 12-338 and 15-99 and IB Docket No. 06-123, FCC 15-50.

² See R&O, ¶¶ 88 *et seq.* The -36 dBW/200 MHz OOBE limit is codified in Section 25.202(i) of the Commission's rules and in Section 2.106 of the rules (Table of Frequency Allocations), footnote US 145.

³ Federal Register, Vol. 80, No. 129, pp. 38812 *et seq.*



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The ITU's Radiocommunication Bureau already has received advance publication information for Iridium NEXT's operations in the 22.55-23.55 GHz band. The Iridium NEXT NGSO space stations, therefore, will be subject to the -36 dBW/200 MHz OOB limit. As confirmed in the attached technical certification, Iridium NEXT space stations will operate in compliance with the -36 dBW/200 MHz OOB limit.

Best regards,

/s/ Jennifer D. Hindin

Jennifer D. Hindin

ENGINEERING CERTIFICATION

The undersigned hereby certifies to the Federal Communications Commission as follows:

(i) I am the technically qualified person responsible for the engineering information contained in the above-referenced Application for Modification of Non-Geostationary Mobile Satellite Service System Authorization (S2110) To Launch and Operate Replacement Satellites,

(ii) I am familiar with Part 25 of the Commission's Rules, and

(iii) I have either prepared or reviewed the engineering information contained in the foregoing supplemental letter, and it is complete and accurate to the best of my knowledge and belief.

Signed: /s/ Frank Buntschuh

Frank Buntschuh
Chief Systems Engineer
Iridium Satellite LLC

Dated: August 14, 2015