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March 31, 2004

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VIA HAND DELIVERY

Thomas S. Tycz
Chief, Satellite Division
International Bureau
Federal Communications Commission
445 12th Street, S.W., Room 6-A665
Washington, DC 20554

Received
APR 05 2004
Policy Branch
International Bureau

Re: Special Temporary Authority for Iridium Constellation LLC To Provide Global Mobile Satellite Service in the 1620.10-1621.35 MHz Frequency Band; File No. SAT-STA-20031010-00313

Dear Mr. Tycz:

Iridium Constellation, LLC ("Iridium"), by its counsel, respectfully files this report updating the status of its continuing need for authority to provide global mobile satellite service ("MSS") in the 1620.10-1621.35 MHz frequency band ("Channel 9") pursuant to the International Bureau's special temporary authority ("STA") grant on December 11, 2003.¹

Subject to certain conditions, the International Bureau granted to Iridium STA to operate in the 1620.10-1621.35 MHz band from the date of the grant until May 12, 2004. Among the conditions imposed with the *Dec. 11 STA Grant*, the Bureau required Iridium to "file a report with the Commission on the first day of each month, commencing January 1, 2004, demonstrating its continued need and use of the 1620.10-1621.35 MHz frequency band."² The Bureau further clarified that the report must "include information regarding *system loading* and *system capacity* over the Middle East region, from April 1, 2003 to the date of the report."³

¹ Special Temporary Authority for Iridium Constellation LLC To Provide Global Mobile Satellite Service in the 1620.10-1621.35 MHz Frequency Band; File No. SAT-STA-20031010-00313 (Dec. 11, 2003) ("*Dec. 11 STA Grant*").

² *Id.* ¶ 19.

³ *Id.* (emphasis added).

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Iridium submits this spectrum use showing in compliance with the Bureau's *Dec. 11 STA Grant*. In the attached graphs, Iridium has depicted the peak system loading (in erlangs per megahertz) and the peak capacity of the Iridium system in the Middle East region during the period March 1, 2003 – February 29, 2004, the full months completed when the study was prepared for this report.

Should you have any questions or require any additional information, please contact me at the number above.

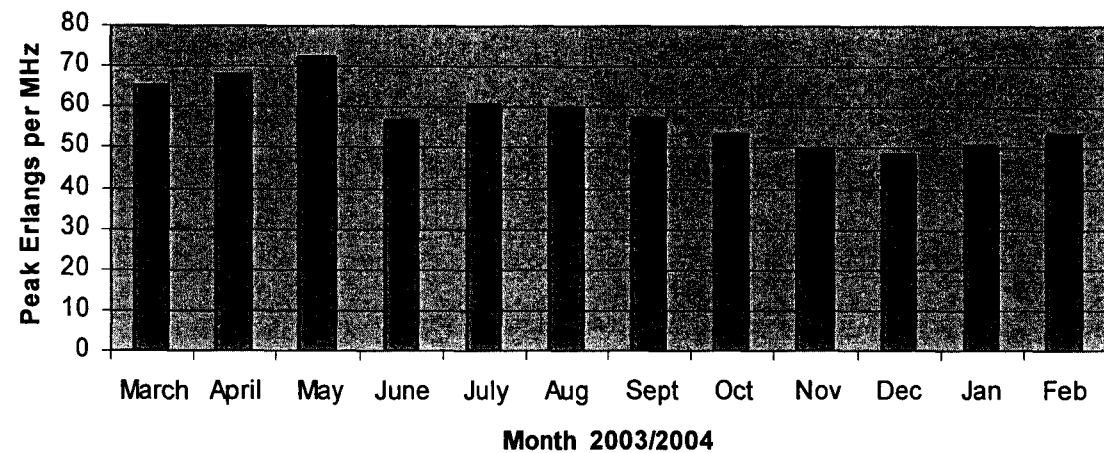
Sincerely,

A handwritten signature in black ink, appearing to read "Peter D. Shields". The signature is written in a cursive style with a large initial "P".

Peter D. Shields
Counsel to Iridium Constellation, LLC

Attachment

Middle East Peak Erlangs/MHz



% Regional Capacity

