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June 3, 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

Re: Iridium Constellation LLC; Special Temporary Authority To Provide  
Global Mobile Satellite Service in the 1620.10-1621.35 MHz Frequency  
Band; File No. SAT-STA-20040506-00091

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 May 10, 2004.<sup>1</sup>

Subject to certain conditions, the International Bureau granted to Iridium STA to operate in the 1620.10-1621.35 MHz band from May 13, 2004 until June 11, 2004. Among the conditions imposed with the *May 10 STA Grant*, the Bureau required Iridium to "file a report with the Commission on June 1, 2004, demonstrating its continued need and use of the 1620.10-1621.35 MHz frequency band."<sup>2</sup> 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."<sup>3</sup>

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<sup>1</sup> Iridium Constellation LLC Request for Special Temporary Authority to Provide MSS in the 1620.10-1621.35 MHz Frequency Band, File No. SAT-STA-20040506-00091 (filed May 5, 2004; granted May 10, 2004) ("*May 10 STA Grant*").

<sup>2</sup> *Id.* ¶ 4.

<sup>3</sup> *Id.* (emphasis added).

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Iridium submits this spectrum use showing in compliance with the Bureau's *May 10 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 – April 30, 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 dark 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

