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September 1, 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-20040319-00056

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 June 9, 2004.¹

Subject to certain conditions, the International Bureau granted to Iridium STA to operate in the 1620.10-1621.35 MHz band until November 8, 2004 or until the use of the additional frequencies is not required. Among the conditions imposed with the *June 9 STA Grant*, the Bureau required Iridium to "file a report with the Commission on the first day of each month, commencing July 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 Request for Special Temporary Authority, Iridium Constellation LLC, For a Mobile Satellite System in the 1.6 GHz Frequency Band, File No. SAT-STA-20040319-00056, *Order*, DA 04-1669 (June 9, 2004) ("*June 9 STA Grant*").

² *Id.* ¶ 21.

³ *Id.* (emphasis added).

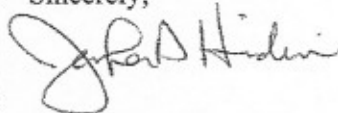
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Iridium submits this spectrum use showing in compliance with the Bureau's *June 9 STA Grant*. In the attached graphs, Iridium has depicted the peak system loading (in erlangs per megahertz) and the peak capacity of the Iridium system in the Middle East region during the period March 1, 2003 – July 31, 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.

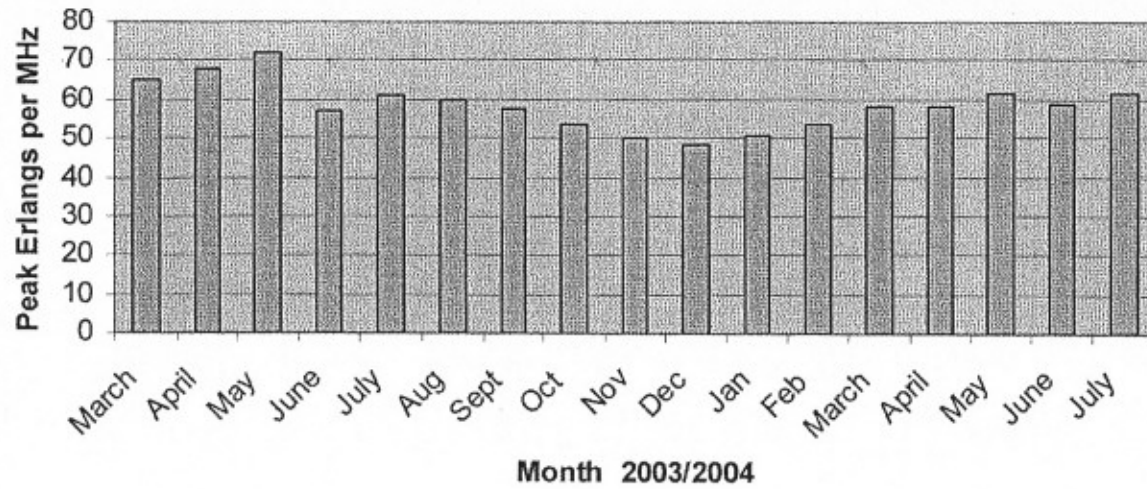
Sincerely,



Jennifer D. Hindin
Counsel to Iridium Constellation, LLC

Attachment

Middle East Peak Erlangs/MHz



% Regional Capacity

