

APPLICATION FOR EARTH STATION SPECIAL TEMPORARY AUTHORITY

APPLICANT INFORMATION Enter a description of this application to identify it on the main menu:  
Amtech Systems LLC Application for STA to Operate 30,000 Mobile Earth Terminals

I. Applicant

|                   |                             |                      |                            |
|-------------------|-----------------------------|----------------------|----------------------------|
| <b>Name:</b>      | Amtech Systems LLC          | <b>Phone Number:</b> | 717-561-5801               |
| <b>DBA Name:</b>  |                             | <b>Fax Number:</b>   | 717-561-5923               |
| <b>Street:</b>    | 8158 Adams Drive, Suite 200 | <b>E-Mail:</b>       | barbara.beam@transcore.com |
| <b>City:</b>      | Hummelstown                 | <b>State:</b>        | PA                         |
| <b>Country:</b>   | USA                         | <b>Zipcode:</b>      | 17036 -                    |
| <b>Attention:</b> | Barbara Beam                |                      |                            |

*Conditions Attached*



File # SES-STA-20060614-01012

Call Sign E990316 Grant Date 6/30/06  
(or other identifier)

From 7/2/06 Term Dates 6/30/06  
To 8/30/06

Approved: Janette D. Sprigg

E990316 SES-STA-20060614-01012  
Amtech Systems LLC

Conditions:

The authorized frequency bands have been cleared with the National Telecommunications and Information Administration.

Licensee's mobile earth station terminals operating on board aircraft shall comply with all applicable Federal Aviation Administration and International Civil Aviation Organization (ICAO) rules and regulations and all other international agreements in force to which the United States is a party.

Licensee's mobile earth station terminals operating on board maritime vessels shall comply with all applicable U.S. Coast Guard and International Maritime Organization (IMO) rules and regulations and all other international agreements in force to which the United States is a party.

Licensee's mobile earth station terminals operating on board aircraft shall comply with the Section 87.147(d) of the Commission's Rules. See 47 C.F.R. Section 87.147(d).

This authorization is issued pursuant to and subject to the conditions and terms set forth in the Commission's Order released July 2, 2002 (DA 02-1566)

AMTECH's MET operations shall be limited to the 2.0 megahertz of spectrum in each direction of the 1626.5-1645.5 MHz and 1530-1544 MHz band coordinated for the satellite(s) being accessed in the most recent annual L-band operator-to-operator agreement, and that no additional spectrum will be requested or used.

AMTECH's operation of its METs is on a secondary basis to safety and distress communications of those stations operating in the Global Maritime Distress Satellite Service.

AMTECH's MET operations shall meet the real-time priority and preemptive access limits set forth in its application, File No. SES-MOD-20060614-01012, including the requirement that all METs will be capable of preemption for maritime safety systems within no more than 15 seconds.

AMTECH is granted continuing authority for the term of this STA during pendency of its modification request.

**2. Contact**

|                   |                                    |                      |                 |
|-------------------|------------------------------------|----------------------|-----------------|
| <b>Name:</b>      | David Hilliard and Jennifer Hindin | <b>Phone Number:</b> | 202-719-4975    |
| <b>Company:</b>   | Wiley Rein & Fielding LLP          | <b>Fax Number:</b>   | 202-719-7049    |
| <b>Street:</b>    | 1776 K Street, NW                  | <b>E-Mail:</b>       | jhindin@wrf.com |
| <b>City:</b>      | Washington                         | <b>State:</b>        | DC              |
| <b>Country:</b>   | USA                                | <b>Zipcode:</b>      | 20006 -         |
| <b>Attention:</b> | Jennifer Hindin                    | <b>Relationship:</b> | Legal Counsel   |

(If your application is related to an application filed with the Commission, enter either the file number or the IB Submission ID of the related application. Please enter only one.)

3. Reference File Number or Submission ID

4a. Is a fee submitted with this application?

- If Yes, complete and attach FCC Form 159. If No, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114).
- Governmental Entity     Noncommercial educational licensee
- Other (please explain):

4b. Fee Classification    CGB – Mobile Satellite Earth Stations

5. Type Request

- Use Prior to Grant                       Change Station Location                       Other

6. Requested Use Prior Date

07/02/2006

7. City Various

8. Latitude

(dd mm ss.s h) 0 0 0.0

|   |   |
|---|---|
| 9. State  | 10. Longitude<br>(dd mm ss.s h) 0 0 0.0                             |
| 11. Please supply any need attachments.<br>Attachment 1: Attachment                      Attachment 2:                      Attachment 3:   |   |
| 12. Description. (If the complete description does not appear in this box, please go to the end of the form to view it in its entirety.)<br><div style="border: 1px solid black; padding: 5px; margin: 10px 0;">Request for special temporary authority to operate 30,000 mobile earth terminals pending grant of an application to modify an existing license to extend the license period for four years.</div>   |   |
| 13. By checking Yes, the undersigned certifies that neither applicant nor any other party to the application is subject to a denial of Federal benefits that includes FCC benefits pursuant to Section 5301 of the Anti-Drug Act of 1988, 21 U.S.C. Section 862, because of a conviction for possession or distribution of a controlled substance. See 47 CFR 1.2002(b) for the meaning of "party to the application" for these purposes. <input checked="" type="radio"/> Yes <input type="radio"/> No |   |
| 14. Name of Person Signing<br>George McGraw   | 15. Title of Person Signing<br>Executive Vice President, Operations |
| WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND / OR IMPRISONMENT<br>(U.S. Code, Title 18, Section 1001), AND/OR REVOCATION OF ANY STATION AUTHORIZATION<br>(U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).   |   |

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## REQUEST FOR SPECIAL TEMPORARY AUTHORITY

Amtech Systems LLC ("Amtech"), pursuant to Section 25.120 of the rules of the Federal Communications Commission ("Commission" or "FCC"),<sup>1</sup> hereby requests Special Temporary Authority ("STA") to operate 30,000 half-duplex mobile earth terminals ("METs") with a transmit bandwidth of 20 kHz in the lower L-band (1530-1544/1626.5-1645.5 MHz). To the extent that grant of this STA request requires an additional waiver of Footnote US315 to Section 2.106 of the Commission's Rules, which requires real-time preemptibility for maritime distress services, Amtech requests a waiver.

Amtech currently holds a license to operate these METs,<sup>2</sup> but this license will expire on July 2, 2006. On May 30, 2006, Amtech filed a timely request to renew its license pursuant to 47 C.F.R. § 25.121. At the Commission's request, Amtech is filing a modification application to extend its license term. Whereas timely filed renewal requests toll the expiration of a license,<sup>3</sup> a modification application has no similar result. Accordingly, Amtech is filing this request for Special Temporary Authority to operate 30,000 half-duplex METs beginning on July 2, 2006, and continuing for a period of 60 days, or until the grant of its application to extend the license period, whichever occurs first.

Grant of this STA, and any required waiver of US Footnote 315, will serve the public interest by avoiding any disruption in service to customers without causing any harmful interference. Since the Commission first granted Amtech a license to operate these half-duplex METs, Amtech has not received any indication that its operations in the lower L-band have interfered with any marine communications. The maximum shutdown time of any of Amtech's METs is 15 seconds. The average shutdown time of Amtech's non-one-second compliant METs is 7 seconds. Grant of this STA will allow Amtech to continue operations until its license is extended, and this extension permits Amtech to continue to reduce the number of non-one-second compliant terminals. As Amtech operates less non-one-second compliant terminals, any possibility for interference will be further eliminated.

Accordingly, and for good cause shown, Amtech respectfully requests STA to continue to operate 30,000 half-duplex in the manner described herein.

Questions regarding this STA request should be directed to David Hilliard or Jennifer D. Hindin of Wiley, Rein & Fielding, LLP, counsel for Amtech, at 202-719-4975.

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<sup>1</sup> 47 C.F.R. §25.120.

<sup>2</sup> See File No. SES-RWL-20040528-00740, Call Sign E990316 (granted June 7, 2004).

<sup>3</sup> 47 C.F.R. § 1.62.