

§ 1215.103

period of a single orbit of the user mission. Missions requiring multiple support periods during a single orbit may be classified as constrained support.

(e) *Constrained support.* Support requests which specify the exact times NASA is to provide service, or conditions of support which can be translated into exact times for service, such as sub-satellite positions, apogee/perigee position, etc., for which support is needed.

(f) *Scheduling service period.* One scheduled contact utilizing a single TDRS whereby the user by requesting service is allotted a block of time for operations between the user satellite and TDRSS.

§ 1215.103 Services.

(a) *Standard services.* These are services which the TDRSS is capable of providing to low-earth orbital user spacecraft or other terrestrial users.

- (1) Tracking services.
- (2) Data acquisition service.
- (3) Command transmission service.

(4) Emergency line outage recording in the event of a communications failure between White Sands, Goddard Space Flight Center (GSFC), and Johnson Space Center (JSC).

(5) A weekly user spacecraft orbit determination in NASA standard orbital elements as determined by NASA for TDRSS target acquisition purposes.

(6) Delivery of user data at the NASA Ground Terminal (NGT) located at White Sands.

(7) Pre-launch support for data flow test and related activities which require use of a TDRS.

(8) Pre-launch support planning and documentation.

(9) Scheduling user services via TDRSS.

(10) Access to tracking data to enable users to perform orbit determination at their option.

(b) *Mission unique services.* Other tracking and data services desired by the user beyond the standard service and the charges therefor, will be identified and assessed on a case-by-case basis.

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§ 1215.104 Apportionment and assignment of services.

No user may apportion, assign, or otherwise convey to any third party its TDRSS service. Each user may obtain service only through contractual agreement with the Associate Administrator for Space Operations.

[56 FR 28048, June 19, 1991]

§ 1215.105 Delivery of user data.

(a) As a standard service, NASA will provide to the user its data from the TDRSS as determined by NASA in the form of one or more digital or analog bit streams synchronized to associated clock streams at the NGT.

(b) User data handling requirements beyond the NGT interface will be provided as a standard service to the user, to the extent that the requirements do not exceed NASA's planned standard communications system. Any additional data transport or handling requirements exceeding NASA's capability will be dealt with as a mission-unique service.

(c) No storage of the user data is provided in the standard service. NASA will provide short-term temporary recording of data at White Sands, only in event of a NASA Communications Network (NASCOM) link outage.

(d) NASA will provide TDRSS services on a "reasonable efforts" basis and, accordingly, will not be liable for damages of any kind to the user or third parties for any reason, including but not limited to failure to provide contracted-for services. The price for TDRSS services does not include a contingency or premium for any potential damages. The user will assume any risk of damages or obtain insurance to protect against any risk.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

§ 1215.106 User command and tracking data.

(a) User command data may enter the TDRSS via the NASCOM interface at one of three locations:

(1) For Shuttle payloads which utilize the Shuttle commanding system, command data must enter the system via the Johnson Space Center (JSC)

and is governed by the policies established for STS services (see § 1215.101).

(2) For free flyers and other payloads, command data must enter the system at the Goddard Space Flight Center (GSFC) if it is to be a standard service.

(3) The use of other command data entry points [e.g., the NASA Ground Terminal (NGT) at White Sands, NM, or Johnson Space Center (JSC), for payloads using an independent direct link from TDRS to the user payload] is considered to be a mission unique service.

(b) NASA is required to maintain the user satellite orbital elements to sufficient accuracy to permit the TDRS system to establish and maintain acquisition. This can be accomplished in two ways:

(1) The user can provide the orbital elements in a NASA format to GSFC to meet TDRSS operational requirements.

(2) The user shall insure that a sufficient quantity of tracking data is received at GSFC to permit the determination of the user satellite orbital elements. The charges for this service will be determined by using the on-orbit service rates.

§ 1215.107 User data security and frequency authorizations.

(a) User data security is not provided by the TDRSS. Responsibility for data security resides solely with the user. Users desiring data safeguards shall provide and operate, external to the TDRSS, the necessary equipment or systems to accomplish data security. Any such user provisions must be compatible with data flow through TDRSS and not interfere with other users.

(b) All radio frequency authorizations associated with operations pursuant to this directive are the responsibility of the user. If appropriate, authority(ies) must be obtained from the Federal Communications Commission (FCC) for operations consistent with U.S. footnote 303 of the National Table of Frequency Allocations, FCC Rules and Regulations, at 47 CFR 2.106.

[56 FR 28049, June 19, 1991]

§ 1215.108 Defining user service requirements.

Potential users should become familiar with TDRSS capabilities and con-

straints, which are detailed in the TDRSS User's Guide (GSFC document, STDN No. 101.2), as early as possible. This action allows the user to evaluate the trade-offs available among various TDRSS services, spacecraft design, operations planning, and other significant mission parameters. When these user evaluations have been completed, and the user desires to use TDRSS, the user should initiate a request for TDRSS service.

(a) Initial requests for TDRSS service from non-U.S. Government users should be addressed to NASA Headquarters, Code OX, Space Network Division, Washington, DC 20546. Upon review and preliminary acceptance of the service requirements by NASA Headquarters, the appropriate areas of GSFC will be assigned to the project to produce the detailed requirements, plans and documentation necessary for support of the mission. Changes to user requirements shall be made as far in advance as possible and shall be submitted in writing to both NASA Headquarters, Code OX, Space Network Division, and GSFC, Code 501, Greenbelt, MD 20771.

(b) Acceptance of user requests for TDRSS service is the sole prerogative of NASA. Although TDRSS represents a significant increase to current support capabilities, service capacity is finite, and service will be provided in accordance with operational priorities established by NASA. Request for services within priority groups shall be negotiated with non-NASA users on a first come, first service basis for inclusion into the TDRSS mission model.

[48 FR 9845, Mar. 9, 1983, as amended at 56 FR 28049, June 19, 1991]

§ 1215.109 Scheduling user service.

(a) User service shall be scheduled only by NASA. Scheduling refers to that activity occurring after the user has been accepted and placed in the TDRSS mission model as specified in § 1215.108(b). See appendix C for a description of a typical user activity timeline.

(b) Schedule conflict will be resolved in general by application of principles of priority to user service requirements. Services shall be provided either as normally scheduled service or