

**Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554**

In the Matter of)
)
2006 Biennial Regulatory Review –) IB Docket No. 06-154
Revision of Part 25)

COMMENTS OF THE SATELLITE INDUSTRY ASSOCIATION

The Satellite Industry Association (“SIA”) submits these comments in response to the Notice of Proposed Rulemaking in the above-captioned proceeding seeking input on proposed changes to Part 25 of the Commission Rules.¹ The revisions set forth in the *Notice* “are designed to clarify the requirements in Part 25, by eliminating redundancy, updating cross-references, and correcting typographical, grammatical, and spelling errors.”² None of the proposed changes are “of a substantive nature.”³

SIA is a U.S.-based trade association providing worldwide representation of the leading satellite operators, service providers, manufacturers, launch services providers, remote sensing operators, and ground equipment suppliers.⁴ SIA is the unified voice of the U.S. satellite industry on policy, regulatory, and legislative issues affecting the satellite business.

¹ *2006 Biennial Regulatory Review – Revision of Part 25*, Notice of Proposed Rulemaking, IB Docket No. 06-154 (rel. Jan. 26, 2010) (“*Notice*”).

² *Id.* at 1.

³ *Id.*

⁴ SIA Executive Members include: Artel, Inc.; The Boeing Company; CapRock Government Solutions; The DIRECTV Group; Hughes Network Systems, LLC; DBSD North America, Inc.; Echostar Satellite Services, LLC; Integral Systems, Inc.; Intelsat, Ltd.; Iridium Satellite, LLC; Lockheed Martin Corporation.; Loral Space & Communications, Inc.; Northrop Grumman Corporation; Rockwell Collins Government Systems; SES WORLD SKIES; SkyTerra Communications, Inc; and TerreStar Networks, Inc. Associate Members include: Arqiva Satellite and Media; ATK Inc.; Cobham SATCOM Land Systems; Comtech EF Data Corp.; DRS Technologies, Inc.; EchoStar Satellite, LLC; EMC, Inc.; Eutelsat, Inc.; Globecom Systems, Inc.; Glowlink Communications Technology, Inc.; iDirect Government Technologies;

SIA commends the Commission’s efforts to review Part 25 in order to “make the Part 25 requirements easier for satellite and earth station operators to understand, and thereby facilitate compliance with those requirements, expedite the processing of licenses, and accelerate the provision of services to the public.”⁵ The SIA membership has undertaken its own in-depth review of the Part 25 rules and has developed a comprehensive set of proposed revisions to advance these same goals. SIA will separately present those revisions, many of which involve more substantive changes than those set forth in the *Notice*, to the Commission staff.

SIA’s comments here are limited to rule sections where the *Notice* proposes to make a change and SIA has also reached a consensus position in its own discussions. Based on that analysis, SIA offers several observations and additional recommendations that it believes will assist the Commission in making Part 25 more accurate and user-friendly.

I. SIA SUPPORTS THE CHANGES TO SECTIONS 25.116(e) AND 25.210(d)

The changes to Sections 25.116(e) and 25.210(d) proposed in the *Notice* coincide with proposals developed by SIA in its internal review. Specifically, SIA agrees with the Commission’s observation that a typographical error currently exists in Section 25.116(e).⁶ The rule erroneously states that amendments to “space station” applications must be filed on Form 312 and Schedule B. SIA supports the Commission’s proposal to replace the term “space

Inmarsat, Inc.; Marshall Communications Corporation.; Panasonic Avionics Corporation; SatGE, Inc.; Spacecom, Ltd.; Spacenet Inc.; Stratos Global Corporation; Telesat Canada; Trace Systems, Inc.; and ViaSat, Inc. Additional information about SIA can be found at <http://www.sia.org>.

⁵ *Notice* at 1.

⁶ *See id.* at 4 n.21.

station” with the term “earth station” so that the rule will accurately state that amendments to “*earth* station” applications must be filed on Form 312 and Schedule B.⁷

Similarly, SIA supports the Commission’s proposal to delete Section 25.210(d), which mandates that space stations in the Fixed Satellite Service in the 20/30 GHz band employ state-of-the-art full-frequency reuse.⁸ Because the full-frequency reuse requirement exists elsewhere in Commission Rules, this provision is duplicative and unnecessary.

II. SIA SUGGESTS REVISIONS TO OTHER CHANGES PROPOSED IN THE *NOTICE*

With respect to a number of the other Part 25 rules proposed to be changed in the *Notice*, SIA’s review process has identified additional or alternative changes, as discussed below. Copies of these rule sections with SIA’s proposals reflected are contained in Attachment A hereto.

A. Section 25.109(a)

SIA agrees with the Commission’s proposal to revise Sections 25.109(a)(2) and (3) in order to provide the correct cross-references for rules relating to maritime and aeronautical terminals. However, SIA recommends that the Commission also insert the word “Certain” before the references to maritime and aeronautical terminals.

As proposed to be revised by the Commission, these rule sections could be read to suggest that all satellite terminals used for maritime or aeronautical service are licensed under Parts 80 and 87, respectively, rather than Part 25. In fact, however, the Commission has rules in

⁷ *Id.* at 9.

⁸ *See id.* at 2 & n.9.

Part 25 specifically designed for licensing earth stations on vessels (“ESVs”) for maritime use.⁹ The Commission has also licensed Aeronautical Mobile Satellite Service (“AMSS”) stations under Part 25¹⁰ and is conducting a rulemaking to consider implementing specific Part 25 rules for AMSS as well.¹¹ Consistent with these licensing practices, Section 25.109(a)(2) should state, “Certain ship earth stations in the Maritime Mobile Satellite Service, see 47 C.F.R. part 80,” and Section 25.109(a)(3) should state, “Certain aircraft earth stations in the Aeronautical Mobile Satellite Service, see 47 C.F.R. part 87” (suggested changes underlined).

B. Section 25.137(b)

SIA agrees with the Commission’s proposed clarifications to Section 25.137(b) concerning materials required to be submitted with a request to serve the U.S. using a foreign-licensed space station. However, SIA suggests that the Commission also insert an additional sentence to clarify the requirements that apply once the Commission has considered and granted such a request. Specifically, the Commission should state that any subsequent applicant for authority to communicate with a foreign-licensed space station that has already been authorized for U.S. service need not re-file the information required in Section 25.137(b), but may instead reference the prior authorization action. By making clear that duplicative materials need not be submitted once they have been received and reviewed by the Commission, this proposal would reduce confusion and would conform to current practices.

⁹ 47 C.F.R. §§ 25.221 & 25.222.

¹⁰ See, e.g., *Boeing Company Application for Blanket Authority to Operate Up to Eight Hundred Technically Identical Transmit and Receive Mobile Earth Stations Aboard Aircraft in the 14.0-14.5 GHz and 11.7-12.2 GHz Frequency Bands*, Order and Authorization, 16 FCC Rcd 5864 (IB and OET, 2001).

¹¹ See *Service Rules and Procedures to Govern the Use of Aeronautical Mobile Satellite Service Earth Stations in Frequency Bands Allocated to the Fixed Satellite Service*, Notice of Proposed Rulemaking, IB Docket No. 05-20, FCC 05-14 (rel. Feb. 9, 2005).

C. Section 25.140(a)

SIA supports the Commission's clarifying changes to Section 25.140(a) but recommends that the Commission delete the provision's reference to the Report and Order in CC Docket No. 81-704.¹² SIA submits that cross-referencing that decision, the 1983 order that implemented two degree spacing,¹³ is no longer necessary because all of the substantive requirements in that order that are still relevant today have been incorporated in Commission rules. Deleting this reference would further the Commission's goals of eliminating redundancy and reducing confusion.

D. Section 25.146(a)

In Section 25.146(a), SIA suggests that the Commission replace references to "ITU-R Recommendation *BO.1503*" with references to "Recommendation ITU-R *S.1503*" (emphasis added).¹⁴ Recommendation ITU-R BO.1503 was identical to Recommendation ITU-R S.1503 but applied to the Broadcasting-Satellite Service, whereas Recommendation ITU-R S.1503 applies to the Fixed-Satellite Service. Recommendation ITU-R BO.1503 was suppressed last year, when BSS matters were folded into the study group handling FSS matters.¹⁵ Recommendation ITU-R S.1503 remains in effect and should be used as the citation throughout this rule section.

¹² See Notice at 11.

¹³ See *Licensing of Space Stations in the Domestic Fixed-Satellite Service and Related Revisions of Part 25 of the Rules and Regulations*, Report and Order, CC Dkt No. 81-704, FCC 83-184 (rel. Aug. 16, 1983).

¹⁴ See Notice at 12.

¹⁵ See ITU Administrative Circular CACE/471 (May 14, 2009) at 3.

E. Section 25.201

SIA disagrees with the Commission’s proposal to alter the definitions of “Fixed Satellite Service” and “Mobile Satellite Service” and with the Commission’s proposed new definition for “Feeder Link.”¹⁶ SIA’s concern is that the proposed definitions for these terms in the *Notice* differ from those found in 47 C.F.R. § 2.1. The Section 2.1 definitions conform to those in the ITU Radio Regulations. Furthermore, Section 2.1 specifies that “[w]here a term or definition appears in this part of the Commission’s Rules, it shall be the definitive term or definition and shall prevail throughout the Commission’s Rules.”¹⁷

Thus, implementing the proposed definitional changes in Part 25 would put the Part 25 rules in conflict with those of the ITU and with the definitions of the same terms in Section 2.1. To maintain consistency and avoid confusion, the Commission should instead retain the current definitions of “Fixed Satellite Service” and “Mobile Satellite Service” and, if it chooses to add a definition for “Feeder Link” in Part 25, use the definition found in Section 2.1.

F. Section 25.202

SIA suggests a few corrections to the table of frequency bands in Section 25.202(a)(1), all related to apparent typographical errors.

First, because 24.75-25.05 GHz and 25.05-25.25 GHz are uplink frequencies, the entries for those frequencies should be placed in the Earth-to-space column, rather than the Space-to-Earth column where they are currently located.¹⁸

¹⁶ *See Notice* at 16.

¹⁷ 47 C.F.R. § 2.1(a).

¹⁸ *See Notice* at 17.

Second, SIA recommends that the Commission include three frequency bands in the table that exist in the current table¹⁹ but were excluded from the table proposed in the *Notice*.²⁰ In the Space-to-Earth column, the Commission should reinsert 6.7-7.025 GHz with a reference to footnote 12, and in the Earth-to-space column, the Commission should reinsert 5.091-5.25 GHz with a reference to footnote 12 and 15.43-15.63 GHz with a reference to footnote 12. The Commission should also reinsert the current footnote 19, which applies to the 5.091-5.25 GHz band, and the current footnote 20, which applies to the 15.43-15.63 GHz band; both footnotes appear to have been deleted along with the respective frequency bands.

Third, the Commission should delete the proposed entry for 37.6-38.6 GHz in the space-to-Earth column. It is not necessary to list that frequency band separately because it is entirely encompassed by the preceding entry in that column for 37.5-40 GHz.²¹

Finally, there appears to be an error in footnote 18.²² The reference to the first frequency range identified in the footnote should be 24.75-25.25 GHz, rather than 24.7-25.25 GHz, as the proposed footnote states.

G. Section 25.210(f)

SIA proposes slight alterations to the proposed language of Section 25.210(f), which deals with full frequency re-use. The revisions are shown in Attachment A. In addition, SIA requests that the Commission add a sentence to make clear that the full frequency re-use requirements do not apply to links used for telemetry, tracking, and command (“TT&C”).

¹⁹ See 47 C.F.R. § 202(a)(1).

²⁰ See *Notice* at 16-17.

²¹ See *id.* at 17.

²² See *id.* at 18.

H. Section 25.210(k)

SIA suggests that the Commission delete Section 25.210(k) because its requirements are unnecessary. Submission of space station antenna performance information is already required for space station applications – the data is included in the contour maps that must be submitted under Section 25.114.²³ There is no need for this information to be provided to the Commission twice. Furthermore, the stated rationale in the current version of Section 25.210(k) for requiring licensees to submit antenna performance information to the Commission is to facilitate coordination with other Commission licensees and with foreign licensees. The *Notice* proposes to eliminate references to this rationale, presumably in recognition of the fact that coordination is undertaken in the first instance by satellite operators themselves, not by the Commission. The Commission does not explain why it would retain the requirement when the rationale for it no longer applies. SIA recommends instead that the Commission delete Section 25.210(k) from the rules.

I. Section 25.276(c)

SIA proposes that the Commission delete this provision because it creates confusion and is unnecessary. The current rule states that “[t]ransmission to or from foreign points over space stations in the Fixed Satellite Service” is “subject to the policies set forth in the Report and Order, adopted January 19, 1996 in IB Docket No. 95-41.”²⁴ The referenced Commission decision is the *DISCO I* ruling that eliminated the previous distinction between

²³ See 47 C.F.R. § 25.114(d)(3).

²⁴ 47 C.F.R. § 25.276(c).

domestic satellites and international separate systems, permitting all U.S.-licensed satellites to provide both domestic and international services.²⁵

The *Notice* proposes to modify the language of the rule and replace the reference to *DISCO I* with a reference to the “requirements set forth in § 25.137 of the Chapter.”²⁶

Section 25.137, however, applies to requests to use a foreign-licensed satellite to serve the U.S.²⁷

Cross-referencing Section 25.137 here would be appropriate if Section 25.276(c) applied only to services using foreign-licensed spacecraft. Instead, however, Section 25.276(c) covers all international services over satellites, whether the space stations are U.S.- or foreign-licensed. Thus, replacing the *DISCO I* reference with a cite to Section 25.137 is not apposite.

If the Commission chooses to retain Section 25.276(c), therefore, it should also retain the reference to *DISCO I*. However, SIA supports deleting the provision altogether as unnecessary. As discussed above, *DISCO I* removed restrictions on provision of international service by satellites that had been licensed under the prior regulatory framework for domestic satellites. *DISCO I* did not impose any relevant new requirements that are not reflected elsewhere in Part 25. Thus, there is no need to state that satellites that provide international service are subject to *DISCO I*, and Section 25.276(c) can simply be deleted.

²⁵ *Amendment to the Commission’s Regulatory Policies Governing Domestic Fixed Satellites and Separate International Satellite Systems*, 11 FCC Rcd 2429 (1996) (“*DISCO I*”).

²⁶ *See Notice* at 25.

²⁷ *See* 47 C.F.R. § 25.137.

CONCLUSION

For the foregoing reasons, SIA recommends that the Commission modify its proposals for Part 25 revisions. SIA's suggestions will clarify the rules, help the Commission achieve its stated goals, and ultimately expedite earth and space station licensing.

Respectfully submitted,

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**Attachment A:
Suggested Alternatives to the Commission’s Proposed Rules**

SIA proposes the following alternative language to the Commission’s proposed rules. For ease of reference, all text added to or changed in the Commission’s proposals is shown with double underlining and all text deleted from the Commission’s proposals is struck through.

A. Section 25.109(a)

- (a) Space radiocommunications stations in the following services are not licensed under this part:
- (1) For licensing requirements for the Amateur Satellite Service, see part 97, but Amateur Satellite Operators must comply with § 25.111(b) of this part;
 - (2) S~~Certain~~ ship earth stations in the Maritime Mobile Satellite Service, see 47 CFR part 80;
 - (3) A~~Certain~~ aircraft earth stations in the Aeronautical Mobile Satellite Service, see 47 CFR part 87.

B. Section 25.137(b)

- (b) Earth station applicants, or entities filing a “letter of intent” or “Petition for Declaratory Ruling,” requesting authority to operate with a non-U.S.-licensed space station must attach to their FCC Form 312 exhibits providing legal and technical information for the non-U.S.-licensed space station in accordance with Part 25, including but not limited to Schedule S. Such applications, letters, or petitions must be filed electronically through the International Bureau Filing System. Once a non-U.S. licensed space station has been authorized to access the United States, future earth station applications for authority to access the non-U.S. satellite, as authorized, need not provide the information requested above, and instead may reference the earlier authorizing action.

C. Section 25.140(a)

- (a) License applications for new fixed-satellite space stations ~~shall comply with the requirements established in Report and Order, CC Docket No. 81-704 (available at the address in § 0.445 of this chapter).~~ Such applications must also meet the requirements in paragraph (b) of this section. The Commission may require additional or different information in the case of any individual application. Applications will be unacceptable for filing and will be returned to the applicant if they do not meet the requirements referred to in this paragraph.

D. Section 25.146(a)

(a) * * *

(1) * * *

- (i) Provide a set of power flux density (PFD) masks, on the surface of the Earth, for each space station in the NGSO FSS system. The PFD masks shall be generated in accordance with the specification stipulated in the most recent version of ~~ITU-R~~ Recommendation ITU-R ~~BS~~.1503, “Functional Description to be used in Developing Software Tools for Determining Conformity of Non-GSO FSS Networks with Limits

Contained in Article 22 of the Radio Regulations.” In particular, the PFD masks must encompass the power flux density radiated by the space station regardless of the satellite transmitter power resource allocation and traffic/beam switching strategy that are used at different periods of an NGSO FSS system’s life. The PFD masks shall be in an electronic form that can be accessed by the computer program specified in paragraph (a)(1)(iii) of this section.

(ii) * * *

(iii) If a computer program that has been approved by the ITU for determining compliance with the single-entry EPFDdown validation limits is not yet available, the applicant shall provide a computer program for the single-entry EPFDdown validation computation, including both the source code and the executable file. This computer program shall be developed in accordance with the specification stipulated in the most recent version of Recommendation ITU-R S.1503. If the applicant uses the ITU approved software, the applicant shall indicate the program name and the version used.

* * * * *

(2) * * *

(i) Provide a set of NGSO FSS earth station maximum equivalent isotropically radiated power (EIRP) masks as a function of the off-axis angle generated by an NGSO FSS earth station. The maximum EIRP mask shall be generated in accordance with the specification stipulated in the most recent version of ~~ITU-R~~ Recommendation ITU-R BOS.1503. In particular, the results of calculations encompass what would be radiated regardless of the earth station transmitter power resource allocation and traffic/beam switching strategy are used at different periods of an NGSO FSS system’s life. The EIRP masks shall be in an electronic form that can be accessed by the computer program specified in paragraph (a)(2)(iii) of this section.

(ii) * * *

(iii) If a computer program that has been approved by the ITU for determining compliance with the single-entry EPFDup validation limits is not yet available, the applicant shall provide a computer program for the single-entry EPFDup validation computation, including both the source code and the executable file. This computer program shall be developed in accordance with the specification stipulated in the most recent version of Recommendation ITU-R S.1503. If the applicant uses the ITU approved software, the applicant shall indicate the program name and the version used.

E. Section 25.201

* * *

Feeder link. A radio link from an earth station at a given location to a space station, or vice versa, conveying information for a space radiocommunication service other than the fixed-satellite service. The given location may be at a specified fixed point, or at any fixed point within specified areas.

* * *

Fixed-Satellite Service. A radiocommunication service between fixed earth stations at given positions, when one or more satellites are used; the given position may be a specified fixed point or any fixed point within specified areas; in some cases this service includes satellite-to-satellite links, which may also be operated in the inter-satellite service; the Fixed Satellite Service may also include feeder links for other space radiocommunication services.

* * *

Mobile-Satellite Service (MSS). A radiocommunication service:

- (1) Between mobile earth stations and one or more space stations, or between space stations used by this service; or
- (2) Between mobile earth stations by means of one or more space stations.

Note: This service may also include feeder links necessary for its operation.

* * *

F. Section 25.202

(a)(1) *Frequency band.* The following frequencies are available for use by the Fixed Satellite Service. Precise frequencies and bandwidths of emission shall be assigned on a case-by-case basis. The Table follows:

Space-to-Earth (GHz)	Earth-to-space (GHz)
3.65-3.7 ¹⁷	<u>5.091-5.25</u> ^{12, 26}
3.7-4.2 ¹	5.925-6.425 ¹
<u>6.7-7.025</u> ¹²	12.75-13.25 ^{1, 12, 14}
10.7-10.95 ^{1, 2, 12}	13.75-14 ^{4, 12}
10.95-11.2 ^{1, 2, 12}	14-14.2 ⁵
11.2-11.45 ^{1, 2, 12}	14.2-14.5
11.45-11.7 ^{1, 2, 12}	<u>15.43-15.64</u> ^{12, 27}
11.7-12.2 ³	17.3-17.8 ⁹
12.2-12.7 ¹³	<u>24.75-25.05</u> ¹⁸
18.3-18.58 ^{10, 24}	<u>25.05-25.25</u> ^{1, 18}
18.58-18.8 ^{6, 10, 11}	27.5-28.35 ²⁴
18.8-19.3 ^{7, 10}	28.35-28.6 ^{19, 23}
19.3-19.7 ^{8, 10}	28.6-29.1 ^{20, 23}
19.7-20.2 ¹⁰	29.1-29.25 ^{21, 23}
<u>24.75-25.05</u> ¹⁸	29.25-29.5 ^{22, 23}
<u>25.05-25.25</u> ^{1, 18}	29.5-30.0 ¹⁹
37.5-40 ^{15, 16}	47.2-50.2 ¹
37.6-38.6	
40-42 ¹⁶	

¹ This band is shared coequally with terrestrial radiocommunication services.

² Use of this band by geostationary satellite orbit satellite systems in the Fixed Satellite Service is limited to international systems, *i.e.*, other than domestic systems.

³ Fixed-satellite transponders may be used additionally for transmissions in the broadcasting-satellite service.

⁴ This band is shared on an equal basis with the Government radiolocation service and grandfathered space stations in the Tracking and Data Relay Satellite System.

⁵ In this band, stations in the radionavigation service shall operate on a secondary basis to the Fixed Satellite Service.

⁶ The band 18.58-18.8 GHz is shared co-equally with existing terrestrial radiocommunication systems until June 8, 2010.

⁷ The band 18.8-19.3 GHz is shared co-equally with terrestrial radiocommunication services, until June 8, 2010. After this date, the sub-band 19.26-19.3 GHz is shared co-equally with existing terrestrial radiocommunication systems.

⁸ The use of the band 19.3-19.7 GHz by the Fixed Satellite Service (space-to-Earth) is limited to feeder links for the Mobile Satellite Service.

⁹ The use of the band 17.3-17.8 GHz by the Fixed Satellite Service (Earth-to-space) is limited to feeder links for broadcasting-satellite service, and the sub-band 17.7-17.8 GHz is shared co-equally with terrestrial fixed services.

¹⁰ This band is shared co-equally with the Federal Government Fixed Satellite Service.

¹¹ The band 18.6-18.8 GHz is shared co-equally with the non-Federal Government and Federal Government Earth exploration-satellite (passive) and space research (passive) services.

¹² Use of this band by non-geostationary satellite orbit systems in the Fixed Satellite Service is limited to gateway earth station operations.

¹³ Use of this band by the Fixed Satellite Service is limited to non-geostationary satellite orbit systems.

¹⁴ Use of this band by NGSO FSS gateway earth station uplink operations is subject to the provisions of § 2.106 NG53.

¹⁵ Use of this band by the Fixed Satellite Service is limited to gateway earth station operations, provided the licensee under this Part obtains a license under Part 101 of this Chapter or an agreement from a Part 101 licensee for the area in which an earth station is to be located. Satellite earth station facilities in this band may not be ubiquitously deployed and may not be used to serve individual consumers.

¹⁶ The 37.5-40.0 GHz band is designated as being available for use by the fixed and mobile services and the 40.0-42.0 GHz band is designated as being available for use by the Fixed Satellite Service.

¹⁷ FSS earth stations in this band must operate on a secondary basis to terrestrial radiocommunication services, except that the band is shared co-equally between certain grandfathered earth stations and the terrestrial radiocommunication services.

¹⁸ Use of the 24.75-25.25 GHz band by the Fixed Satellite Service (Earth-to-space) is limited to feeder links for the broadcasting satellite service, and the 25.05-25.25 GHz sub-band is shared co-equally with terrestrial fixed services.

¹⁹ This band is primary for GSO FSS and secondary for NGSO FSS.

²⁰ This band is primary for NGSO FSS and secondary for GSO FSS.

²¹ This band is primary for MSS feeder links and LMDS hub-to-subscriber transmission.

²² This band is primary for MSS feeder links and GSO FSS.

²³ This band is internationally allocated for FSS and terrestrial radio services on a co-primary basis.

²⁴ FSS is secondary to LMDS in this band.

²⁵ The band 18.3-18.58 GHz is shared co-equally with existing terrestrial radiocommunication systems until November 19, 2012.

²⁶ See 47 CFR 2.106, footnotes 5.444A and US344, for conditions that apply to this band.

²⁷ See 47 CFR 2.106, footnotes 5.511C and US359, for conditions that apply to this band.

G. Section 25.210(f)

(f) All space station operations ~~in any the~~ Fixed Satellite Service frequency band, (including feeder links for other space services) and in the Broadcasting-Satellite Service in the 17.3-17.8 GHz band (space-to-Earth), shall employ state-of-the-art full frequency reuse, either through the use of orthogonal polarizations within the same beam and/or the use of spatially independent beams. This obligation does not apply to telemetry, tracking and command functions.

H. Section 25.210(k)

~~(k) Antenna measurements of both co-polarized and cross-polarized performance must be made on all antennas employed by space stations both within and outside the primary coverage area. The results of such measurements shall be submitted to the Commission within thirty days after preliminary in-orbit testing is completed.~~

[SIA proposes that the Commission delete this provision.]

I. Section 25.276(c)

~~(c) Transmission to or from foreign points over space stations in the Fixed Satellite Service are subject to the requirements set forth in § 25.137 of this Chapter.~~

[SIA proposes that the Commission delete this provision.]