h. Add a reference to a primary allocation for INTER-SATELLITE SERVICE in column (2) of the 25.25-25.5 GHz, 25.5-27 GHz, and 32-32.3; in columns (1) and (2) of the 27-27.5 GHz band; and in columns (1), (2), and (3) of the 24.45-24.65 GHz and 24.65-24.75 GHz bands.

i. The new or modified text of footnotes 731A, 731B, 731C, 731D, 731X, 731Y, 734, 753E, 753X, 877, 878, 881A, 881B, 882X, 882Y, and 890 replaces the current text in the list of international footnotes;

j. Upon updating the Table of Frequency Allocations, the affected sections will look as follows:

2.106 Table of Frequency Allocations

* * * * *

International Table			United States Table		FCC use designators	
Region 1 Allocation MHz	Region 2 Allocation MHz	Region 3 Allocation MHz	Government Allocation MHz	Non-Government Allocation MHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* * * * *

1610-1610.6 AERONAUTICAL RADIONAVIGATION. MOBILE-SATELLITE (Earth-to-space). 722 727 730 731 731X 732 733 733A 733B 733E 733F	1610-1610.6 AERONAUTICAL RADIONAVIGATION. RADIODETERMINATION-SATELLITE (Earth-to-space). 733A MOBILE-SATELLITE (Earth-to-space). 722 731X 732 733 733C 733D 733E	1610-1610.6 AERONAUTICAL RADIONAVIGATION. MOBILE-SATELLITE (Earth-to-space). Radiodetermination-Satellite (Earth-to space). 733A 722 727 730 731X 732 733 733B 733E	1610-1610.6 AERONAUTICAL RADIONAVIGATION. 722 732 733 US208 US260	1610-1610.6 AERONAUTICAL RADIONAVIGATION. RADIODETERMINATION-SATELLITE (Earth-to-space). 733A MOBILE-SATELLITE (Earth-to-space). 722 731X 732 733 733E US208 US260	AVIATION (87). SATELLITE COMMUNICATION (25).	

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2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation MHz	Region 2 Allocation MHz	Region 3 Allocation MHz	Government Allocation MHz	Non-Government Allocation MHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1610.6-1613.8 AERONAUTICAL RADIONAVI-GATION. MOBILE-SATELLITE (Earth-to-space). RADIO ASTRONOMY 722 727 730 731 731X 732 733 733A 733B 733E 733F 734	1610.6-1613.8 AERONAUTICAL RADIONAVI-GATION. RADIODETERMIN-ATION-SATELLITE (Earth-to-space). 733A MOBILE-SATELLITE (Earth-to-space). RADIO ASTRONOMY. 722 731X 732 733 733C 733D 733E 734	1610.6-1613.8 AERONAUTICAL RADIONAVI GATION. MOBILE-SATELLITE (Earth-to-space). RADIO ASTRONOMY Radiodetermin-ation-Satellite (Earth-to-space). 733A 722 727 730 731X 732 733 733B 733E 734	1610.6-1613.8 AERONAUTICAL RADIONAVI-GATION. RADIO ASTRONOMY. 722 732 733 US208 US260	1610.6-1613.8 AERONAUTICAL RADIONAVI-GATION. RADIODETERMIN-ATION-SATELLITE (Earth-to-space). MOBILE-SATELLITE (Earth-to-space). RADIO ASTRONOMY. 722 731X 732 733 733E 734 US208 US260		

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2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation MHz	Region 2 Allocation MHz	Region 3 Allocation MHz	Government Allocation MHz	Non-Government Allocation MHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

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1613.8-1626.5 AERONAUTICAL RADIONAVIG-ATION. MOBILE-SATELLITE (Earth-to-space). Mobile-Satellite (space-to-Earth). 722 727 730 731 731X 731Y 732 733 733A 733B 733E 733F	1613.8-1626.5 AERONAUTICAL RADIONAVIG-ATION. RADIODETERMIN-ATION-SATELLITE (Earth-to-space). 733A MOBILE-SATELLITE (Earth-to-space). Mobile-Satellite (space-to-Earth). 722 731X 731Y 732 733 733C 733D 733E	1613.8-1626.5 AERONAUTICAL RADIONAVIG-ATION. MOBILE-SATELLITE (Earth-to-space). Radiodetermin-ation-Satellite (Earth-to-space). Mobile-Satellite (space-to-Earth). 722 727 730 731X 731Y 732 733 733B 733E	1613.8-1626.5 AERONAUTICAL RADIONAVIG-ATION. 722 732 733 US208 US260	1613.8-1626.5 AERONAUTICAL RADIONAVIG-ATION. RADIODETERMIN-ATION-SATELLITE (Earth-to-space). MOBILE-SATELLITE (Earth-to-space). Mobile-Satellite (space-to-Earth). 722 731X 731Y 732 733 733E US208 US260		

2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation MHz	Region 2 Allocation MHz	Region 3 Allocation MHz	Government Allocation MHz	Non-Government Allocation MHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

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2483.5-2500 FIXED. MOBILE. MOBILE-SATELLITE (space-to-Earth). Radiolocation.	2483.5-2500 FIXED. MOBILE. RADIODETERMIN-ATION-SATELLITE (space-to-Earth). 753A RADIOLOCATION. MOBILE-SATELLITE (space-to-Earth).	2483.5-2500 FIXED. MOBILE. RADIOLOCATION MOBILE-SATELLITE (space-to-Earth). Radiodetermin-ation-Satellite (space-to-Earth). 753A	2483.5-2500	2483.5-2500 RADIODETERMIN-ATION-SATELLITE (space-to-Earth) MOBILE-SATELLITE (space-to-Earth).	Satellite communica-tion (25).	
733F 752 753 753A 753B 753C 753X	752 753D 753X	752 753C 753X	752 US41	752 753X US41 NG147		

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2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation GHz	Region 2 Allocation GHz	Region 3 Allocation GHz	Government Allocation GHz	Non-Government Allocation GHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* * * * *

24.25-24.45 RADIONAVIGATION.			24.25-24.45 RADIONAVIGATION		AVIATION (87).	
24.45-24.65 FIXED. INTER-SATELLITE.	24.45-24.65 RADIONAVIGATION. INTER-SATELLITE. 882X	24.45-24.65 RADIONAVIGATION FIXED. INTER-SATELLITE. MOBILE 882X	24.45-24.65 INTER-SATELLITE. 882X		SATELLITE (25).	
24.65-24.75 FIXED. INTER-SATELLITE.	24.65-24.75 INTER-SATELLITE. RADIOLOCATION-SATELLITE (Earth-to-space).	24.65-24.75 FIXED. INTER-SATELLITE. MOBILE. 882X 882Y	24.65-24.75 INTER-SATELLITE. RADIOLOCATION-SATELLITE (Earth-to-space).		SATELLITE (25).	

2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation GHz	Region 2 Allocation GHz	Region 3 Allocation GHz	Government Allocation GHz	Non-Government Allocation GHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

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24.75-25.25 FIXED.	24.75-25.25 FIXED-SATELLITE (Earth-to-space). 882Z.	24.75-25.25 FIXED. FIXED-SATELLITE (Earth-to-space). MOBILE. 882Y	24.75-25.25 FIXED-SATELLITE (Earth-to-space). 882Z		SATELLITE (25).	

25.25-25.5	FIXED. MOBILE. INTER-SATELLITE. 881A Standard Frequency and Time Signal-Satellite (Earth-to-space).		25.25-25.5 FIXED. MOBILE. INTER-SATELLITE. 881A Standard Frequency and Time Signal-Satellite (Earth-to-space).		SATELLITE (25).	

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2.106 Table of Frequency Allocations

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International Table			United States Table		FCC use designators	
Region 1 Allocation GHz	Region 2 Allocation GHz	Region 3 Allocation GHz	Government Allocation GHz	Non-Government Allocation GHz	Rule Part (s)	Special-Use Frequencies
(1)	(2)	(3)	(4)	(5)	(6)	(7)

* * * * *

25.5-27	FIXED. MOBILE. INTER-SATELLITE. 881A Earth Exploration-Satellite (space-to-Earth). Standard Frequency and Time Signal-Satellite (Earth-to-space).	25.5-27 FIXED. MOBILE. INTER-SATELLITE. 881A Earth Exploration-Satellite (space-to-Earth). Standard Frequency and Time Signal-Satellite (Earth-to-space).		SATELLITE (25).	

27-27.5 FIXED. MOBILE. INTER-SATELLITE. 881A	FIXED. FIXED-SATELLITE (Earth-to-space). MOBILE. INTER-SATELLITE.881A 881B	27-27.5 FIXED. FIXED-SATELLITE (Earth-to-space). MOBILE. INTER-SATELLITE. 881A 881B		SATELLITE (25).	

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INTERNATIONAL FOOTNOTES

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731A -- Deleted.

731B -- Deleted.

731C -- Deleted.

731D -- Deleted.

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731X -- The use of the band 1610-1626.5 MHz by the mobile-satellite service (Earth-to-space) and by the radiodetermination-satellite service (Earth-to-space) is subject to the application of the coordination and notification procedures set forth in Resolution COM5/8. A mobile earth station operating in either of the services in this band shall not produce an e.i.r.p. density in excess of -15 dBW/4kHz in the part of the band used by systems operating in accordance with the provisions of NO. 732, unless otherwise agreed by the affected administrations. In the part of the band where such systems are not operating, a value of -3 dBW/4 kHz is applicable. Stations of mobile-satellite service shall not cause harmful interference to, or claim protection from, stations in the aeronautical radionavigation service, stations operating in accordance with the provisions of No. 732 and stations in the fixed service operating in accordance with the provisions of No. 730.

731Y -- The use of the band 1613.8-1626.5 MHz by the mobile-satellite service (space-to-Earth) is subject to the application of the coordination and notification procedures set forth in Resolution COM5/8.

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733E -- Modified-- Harmful interference shall not be caused to stations of the radio astronomy service using the band 1610.6-1613.8 MHz by stations of the radiodetermination-satellite and mobile-satellite services (No. 2904 applies.)

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734-- Modified -- In making assignments to stations of other services, administrations are urged to take all practicable steps to protect the radio astronomy service in the band 1610.6-1613.8 MHz from harmful interference. Emissions from space or air-borne stations can be particularly serious sources of interference to the radio astronomy service (see Nos. 343 and 344 and Article 36).

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753E -- Deleted.

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753X -- The use of the band 2483.5-2500 MHz by the mobile-satellite and the radiodetermination-satellite services is subject to the application of the coordination and notification procedures set forth in Resolution COM5/8. Coordination of space stations of the mobile-satellite and radiodetermination-satellite services with respect to terrestrial services is required only if the power flux-density produced at the Earth's surface exceeds the limits in No. 2566. In respect of assignments operating in this band, the provisions of Section II, paragraph 2.2 of Resolution COM5/8 shall also be applied to geostationary transmitting space stations with respect to terrestrial stations.

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877 -- Deleted.

878 -- Deleted.

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881A -- Use of the 25.25-27.5 GHz band by the inter-satellite service is limited to space research and Earth exploration applications and also transmissions of data originating from industrial and medical activities in space.

881B -- Space services using non-geostationary satellites operating in the inter-satellite service in the band 27-27.5 GHz are exempt form the provisions of No. 2613.

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882X -- The inter-satellite service shall not claim protection from harmful interference from airport surface detection equipment stations of the radionavigation service.

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890 -- Deleted.

891 -- Deleted.

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APPENDIX B

Parties Filing Comments to the AMSC Petition for Rule Making:

AFTRCC
Association of American Railroads
COMSAT
Constellation
CORF
Loral
Motorola
NTIA
Satellite CD Radio
TRW

Parties Filing Reply Comments to the AMSC Petition for Rule Making:

AFTRCC
AMSC
COMSAT
Constellation
Ellipsat
Loral
Motorola

Parties Filing Response to Reply Comments of AMSC and Motion for Leave to Accept Responsive Pleading:

AFTRCC

Parties Filing Comments to the Constellation Petition for Rule Making:

AMSC
COMSAT
CORF
Loral
Motorola
TRW

Parties Filing Reply Comments to the Constellation Petition for Rule Making:

AMSC
COMSAT
Constellation
Ellipsat
Loral
Motorola

Parties Filing Comments to the TRW Petition for Rule Making:

AMSC
COMSAT
Constellation
CORF
Loral
Motorola

Parties Filing Reply Comments to the TRW Petition for Rule Making:

AMSC
COMSAT
Constellation
Ellipsat
Loral
Motorola
TRW

Parties Filing Comments to the Ellipsat Petition for Rule Making:

AMSC
COMSAT
CORF
Loral
Motorola
TRW

Parties Filing Reply Comments to the Ellipsat Petition for Rule Making:

AMSC
COMSAT
Constellation
Ellipsat
Loral
Motorola

Parties Filing Comments to the Pioneer's Preference Requests:

AMSC
Constellation
Ellipsat
Loral
Motorola
TRW

Parties Filing Reply Comments to the Pioneer's Preference Requests:

AMSC
Constellation
Ellipsat
Loral
Motorola
TRW

Parties Filing Other pleadings in the Proceeding:

AMSC
Constellation
Ellipsat
Loral
Motorola
TRW
SCS Mobilecom Inc.

August 5, 1992

SEPARATE STATEMENT
OF
COMMISSIONER ANDREW C. BARRETT

RE: Amendment of Section 2.106 of the Commission's Rules to Allocate the 1610-1626.5 MHz and 2483.5-2500 MHz bands for use by the Mobile-Satellite Service, including Non-geostationary satellites [ET Docket 92-28].

I support this Notice of Proposed Rulemaking and Tentative Decision as an important step in the Commission's efforts to promote a competitive market for mobile communications services. In addition to our Personal Communications Services dockets [Gen Docket 90-314 and ET Docket 92-100], I consider this docket to be another significant means of addressing the growing market demand for mobile services, both in the United States and abroad. I believe that mobile satellite communications will prove crucial to our efforts to encourage ubiquitous communications services throughout the United States, particularly in sparsely populated areas. These mobile satellite services also could provide emergency communications capabilities and international communications to and from the United States. Thus, I look forward to reviewing the comments in this docket with respect to spectrum allocation issues. I am particularly interested in reviewing comments that pertain to our ability to allocate spectrum to multiple LEO providers within the bands outlined in the Notice.

I am aware of the tremendous international cooperation at the 1992 World Administrative Radio Conference [WARC-92] which resulted in an international allocation for mobile-satellite services in the 1610-1626.5 and 2483.5-2500 MHz bands. I am particularly pleased to see that we also have the flexibility to consider the authorization of low-Earth orbit [LEO] satellite systems in this band. In that regard, while I support the tentative decision to grant no pioneer preference to any of the LEO proponents based on current information, I question whether our pioneer preference rules [Gen Docket 90-217] should be modified to ensure that this tentative decision is made closer to the time that service rules are proposed. I am concerned that at a stage where no experiments have been authorized, detailed technical feasibility showings have not been made, and no spectrum allocation for a particular service has been completed, it is difficult to assess the relative merits of any new service proposals. I do believe that in any docket for new services, the system selected as the tentative pioneer preference should

contribute significantly to the eventual service and technical rules proposed for that service. Where it is not possible to make this determination at the time of our tentative decision, I question whether our pioneer preference rules should be modified to require that the decision is made closer to the time of proposed service rules. Further, without significant detailed technical feasibility showings or experimental results, I question whether we should accept pioneer preference applications based on general service proposals only. I will be interested in reviewing the comments in this docket and the pioneer preference docket, which address these concerns. I believe our pioneer preference rules can provide significant incentives to conduct research, and propose innovative services or improvements to existing services. However, I also believe that these rules should be modified, where necessary, to ensure that the Commission implements them in the intended manner.