JUL - 3 1991

## Before the FEDERAL COMMUNICATIONS COMMISSION Washington, D.C. 20554

FEDERAL COMMUNICATIONS
OFFICE OF THE SECRETA

In re Application of )	
MOTOROLA SATELLITE COMMUNICATIONS, ) INC.	File Nos. 9-DSS-P-1(87)
For Authority to Construct, ) Launch, and Operate a Low Earth Orbit Satellite System in the 1610-1626.5 MHz Band.	CSS-91-010
ELLIPSAT CORPORATION	File No. 11-DSS-P-91(6)
For Authority to Construct Ellipso I, an Elliptical Orbit Communication Satellite System in the 1610-1626.5 MHz and 2483.5-2500 MHz Bands	JUL 8 1991
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REPLY COMMENTS OF AERONAUTICAL RADIO, INC.

Aeronautical Radio, Inc. (ARINC), by its attorneys hereby submits this reply to Comments submitted on the Iridium and Ellipsat applications.

ARINC is the communications company of the air transport industry and provides civil aviation with communications and information services on a not-for-profit basis. ARINC also sponsors a number of air transport industry forums that address communications and electronics issues for aviation. One of these industry committees is the Airlines Electronic Engineering Committee (AEEC), which establishes characteristics and specifications for aircraft electronic systems.

ARINC and the air transport industry is concerned with the possible impact on GLONASS of Motorola's and Ellipsat's proposed use of the band 1610-1626.5 MHz for low-earth orbit (LEO) mobile satellite systems (MSS). AEEC is currently completing work on a draft Characteristic 743A for Global Positioning System (GPS)/GLONASS avionics. The Soviet Union has provided the AEEC and the Radio Technical Commission for Aeronautics (RTCA) technical information concerning the GLONASS system that specifies the following 24 discrete frequencies in the band 1602.5625-1615.5 MHz to be used by GLONASS:

1600	1200		
1602.5625	MHZ	1609.3125	MHz
1603.1250		1609.8750	
1603.6875		1610.4375	
1604.2500		1611.0000	
1604.8125		1611.5625	
1605.3750		1612.1250	
1605.9375			
1606.5000		1612.6875	
1607.0625		1613.2500	
		1613.8125	
1607.6250		1614.3750	
1608.1875		1614.9375	
1608.7500		1615.5000	

Because the proposed LEO systems and the GLONASS aeronautical radionavigation system will be global in coverage and propose use of the same frequencies, careful design and frequency coordination will be necessary to

See U.S.S.R. Research and Production Association of Applied Mechanics, Glavkosmos U.S.S.R., and U.S.S.R. Institute of Space Device Engineering, Global Satellite Navigation System GLONASS Interface Control Document (2d wording) at 12 (1991).

protect GLONASS. GLONASS will probably become an important part of the worldwide aeronautical radionavigation system and be used by aircraft of all nations. For example, Northwest Airlines has begun tests using GLONASS, and the International Civil Aviation Organization (ICAO) is also considering the roles that GPS and GLONASS will play in the future air navigation systems.

Accordingly, ARINC requests that the United States consider the requirements of the aeronautical radionavigation services of GLONASS prior to authorizing use of the band 1610-1626.5 MHz for LEO MSS.

Respectfully submitted,
AERONAUTICAL RADIO, INC.

Bv:

John L. Bartlett

of

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July 3, 1991

## CERTIFICATE OF SERVICE

I, Phyllis C. Hall, a legal secretary at the law offices of WILEY, REIN & FIELDING, hereby certify that on this 3rd day of July 1991, copies of the attached "Reply Comments of Aeronautical Radio, Inc." were caused to be served by first-class mail, postage prepaid, on the parties listed on the attached service list.

Phyllis C. Hall

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