

Before the  
Federal Communications Commission  
Washington, D.C. 20554

**PUBLIC NOTICE**

Report No. DS-999

Released: September 4, 1990

**COMMON CARRIER SERVICES INFORMATION**

By the Chief, Common Carrier Bureau:

Upon initial review, the International Facilities Division and the Satellite Radio Branch have found the following applications acceptable for filing. The Commission reserves the right to return these applications, if, upon further examination, it is determined that they are defective and not in conformance with the Commission's rules and policies.

**GEOSTAR POSITIONING CORPORATION** File Nos. 46-DSS-P/LA-90  
48-DSS-P/LA-90  
43-DSS-MP/ML-90  
44-DSS-MP/ML-90  
51-DSS-EXT-90  
52-DSS-EXT-90  
CSS-90-012 (ML)  
CSS-90-013 (ML)  
CSS-90-014 (ML)  
CSS-90-015(ML)

Geostar Positioning Corporation (Geostar) has applied to construct and launch two new dedicated radiodetermination satellite service (RDSS) satellites -- Geostars 1B and 2B. Geostar has also applied to modify its first two dedicated RDSS satellites as authorized in *Geostar Corporation*, Mimeo No. 6144 (released August 7, 1986), -- Geostars 1A and 1B. Geostar proposes to co-locate Geostars 1A and 1B and Geostars 2A and 2B. In addition, each satellite pair is to be launched together on the same payload assist module. Each of the dedicated RDSS satellites is to carry one inbound channel and one outbound channel and will have a single 3.5° by 7° coverage pattern that can be repointed while the satellite is in-orbit to serve user terminals either in the contiguous U.S. or in other points of the western hemisphere. The following frequency bands are requested:

	Center Frequency	Bandwidth	Polarization
user-to-satellite	1618.25 MHz	16.5 MHz	LHCP
satellite-to-user	2491.75 MHz	16.5 MHz	RHCP
telemetry/beacon	5141.5 MHz	1.0 MHz	Horizontal
satellite-to-control center	5183 (or 5174.25) MHz	16.5 MHz	Horizontal
telemetry/beacon	5224.5 MHz	1.0 MHz	Horizontal
telecommand	6526.5 MHz 6536.5 MHz	3.0 MHz	Vertical
control center-to satellite	6562.875 (or 6555.5) MHz	16.5 MHz	Vertical

Geostar states that the proposed design will result in a small reduction in satellite EIRP and G/T compared to the values specified for the dedicated RDSS satellites as initially authorized and will not increase the potential for interference to any other user of the spectrum. Geostar also states that the satellites will be capable of supporting hand-held user terminals and providing position determination by range measurements obtained through two satellites and altitude information obtained from a digitized terrain map or on-board altimeter. Finally, Geostar requests the following amended schedules for completing construction of and launching Geostars 1A and 1B and the following implementation schedules for Geostars 1B and 2B:

	Begin Construction	Complete Construction	Launch
Geostar 1A	...	October 1993	December 1993
Geostar 1B	January 1991	October 1993	December 1993
Geostar 2A	...	October 1994	December 1994
Geostar 2B	October 1991	October 1994	December 1994

**GEOSTAR POSITIONING CORPORATION** File Nos. 45-DSS-MP/ML-90  
53-DSS-EXT-90

Geostar proposes to modify the license for its third dedicated RDSS satellite -- Geostar 3 -- as authorized in *Geostar Corporation*, Mimeo No. 6144 (released August 7, 1986), to conform the satellite-to-control center frequencies to the allocations made at the 1987 World Administrative Radio Conference for Mobile Services (MobileWARC-87). Specifically, Geostar requests a shift in the assigned frequencies for this link from 5117-5183 MHz to 5150-5216 MHz. All other parameters of the 5 GHz satellite-to-control center link are to remain the same as authorized. In addition, Geostar requests an extension of Geostar 3's construction completion milestone until October 1995 and its launch milestone until December 1995.

Comments or petitions concerning these applications may be filed on or before **October 10, 1990**. Replies may be filed on or before **October 31, 1990**. Responses may be

filed on or before **November 14, 1990**. Interested parties should submit an original and six copies of any document filed in response to this notice.

Copies of this application, as well as any pleadings filed pursuant to this notice, will be available for inspection in the International Facilities Division Public Reference Room, Room 533, 1919 M Street, N.W., Washington, D.C. and in the Domestic Facilities Public Reference Room, Room 6218, 2025 M Street, N.W., Washington, D.C.

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FEDERAL COMMUNICATIONS COMMISSION