

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

**PUBLIC NOTICE**

Released: April 23, 1991

Report No. DS-1067

**LOW EARTH ORBIT SATELLITE  
APPLICATIONS ACCEPTABLE FOR FILING**

In response to Public Notice, Report No. DS-982, establishing a cut-off date for low earth orbit satellite applications operating in the 148.0-149.9 MHz and 137-138 MHz bands, Orbital Communications Corporation has filed an amendment to its application (File No. 22-DSS-MP-90(2), see Public Notice Report No. DS-953 (released April 11, 1990)) and LEOSAT Corporation has filed an application for authority to construct a low earth orbit satellite system. Upon initial review, the Commission has found these applications acceptable for filing. The Commission reserves the right to return these applications, however, if, upon further review, it is determined that they are defective or not in conformance with the Commission's rules, regulations and policies.

It also appears that the proposals listed below, as well as a previous application filed by Starsys, Inc., Public Notice, Report No. DS-982 (July 16, 1990), may be mutually exclusive on the grounds of electrical interference. The processing of these applications is therefore considered to be a restricted proceeding adjudicative proceeding. See 47 C.F.R. § 1.1203. Accordingly, the restrictions on *ex parte* communications of Section 1.1223 of the rules and regulations, 47 C.F.R. § 1.1223, apply to these applications. Specifically, all *ex parte* contacts are prohibited with respect to these proposals. An *Ex parte* contact is a message (spoken or written) concerning the merits or outcome of any aspect of this proceeding made to a Commissioner, a Commissioner's assistant or other decision-making staff member, other than comments officially filed at the Commission or oral presentations made with an opportunity for all parties to be present.

**ORBITAL  
COMMUNICATIONS  
CORPORATION**

File No. 22-DSS-MP-90(20)

Orbital Communications Corporation (Orbcomm) has filed a major amendment to its application in File No. 22-DSS-MP-90(2) (see Public Notice, Report No. DS-953 (released April 11, 1990)), to construct a low earth orbit satellite system. This amendment: (1) revises the satellite system description in Chapter V of the original application; (2) revises Appendix A, Interference Analysis; and (3) supplies additional financial information as requested in Public Notice, Report No. DS-982 (released July 16, 1990).

Specific changes in the technical information in Chapter V include: (a) the use of 790 KHz of bandwidth within the 148-149.9 MHz portion of the VHF frequency band for uplink transmissions and 320 KHz of bandwidth within the 137-138 MHz portion of the VHF band for downlink transmissions; (b) subscriber terminals are to transmit to the satellites at 2400 bps over twenty 10 KHz channels and will receive from the satellites at 4800 bps over eight 15 KHz channels; and (c) the primary constellation will be comprised of three orbital planes with six satellites per plane, inclined with respect to the equator at an angle of 40-60 degrees, actual inclination to be determined after further study.

**LEOSAT CORPORATION**

File No. 12-DSS-P-91(2)

LEOSAT Corporation (LEOSAT) has filed an application to construct two small satellites as part of a low earth orbit smart car satellite system. The proposed system will consist of DSI Microsat class low earth orbit satellites, a primary and redundant TT&C control center, a number of customer premises direct access data downlink centers and individual LEOSAT radios. Proposed services include two-way data transmission between the user radios, the direct access data downlink centers and the TT&C control center. Three smart car terminal types are proposed: (1) mobile, integrated to smart car electronic components; (2) personal/portable for individual use; and (3) fixed, reduced feature set, terminal for monitoring applications. Operations are proposed in frequency bands 148.0-149.0 MHz and 137.0-138.0 MHz. Satellites are proposed to operate at 40 degree inclined orbits with an estimated life of seven years. LEOSAT proposes to commence construction in 1992 with completion and launch in 1994. Satellites would be placed into service in 1995.

Comments or petitions on Orbcomm's amendment and on LEOSAT's application may be filed on or before **June 17, 1991**. Replies and oppositions may be filed on or before **July 17, 1991**. Responses may be filed on or before **August 2, 1991**.

These application proceedings are also related to the rulemaking to allocate frequencies for this service. See Public Notice, Report No. 1817 (June 18, 1990), RM-7399.

For further information, contact Kathleen Campbell at (202) 634-1624.

FEDERAL COMMUNICATIONS COMMISSION