ON BOARD SATELLITE COMMUNICATIONS CONFIGURATION CONTROL VIA COMMUNICATION CHANNEL*

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ABSTRACT

Features of the design of the telemetry and command system for the LES-8 and LES-9 experimental communications satellites are described. Particular emphasis is placed on access to command and telemetry functions for the communications user community.

Features described are:

1. Telemetry and command access through a communications channel in addition to dedicated telemetry and command channels.

2. The sets of telemetry and command functions for the communications user and for the satellite ground control center. Command set structure to allow for separable command sets.

3. Methods of display and control to provide for user control of the telemetry and command functions.

In addition, extrapolation of user control of satellites by an experimental test community to a more general user community is projected.

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