

APPENDIX B

CHANNEL CODING

This appendix is excerpted from the CCSDS “Channel Coding Recommendation,” reference [2]. The paragraph numbers of reference [2] are retained for ease of correlation. Any paragraph numbers not *specifically* identified in this appendix are not being adopted by this standard.

4.2 SPECIFICATION

The Transfer Frame is defined by paragraph 2.3 of this Standard. It has a maximum length of 8920 bits, not including the 32-bit Attached Sync Marker.

5.2 ASM BIT PATTERN

The ASM for the telemetry channel data stream shall consist of a 32-bit (4-octet) marker with a pattern as follows:

└──0001 1010 1100 1111 1111 1100 0001 1101

FIRST TRANSMITTED BIT (Bit 0) LAST TRANSMITTED BIT (Bit 31)

The pattern is represented in hexadecimal notation as:

1ACFFC1D

The ASM is attached to (i.e., shall immediately precede) the Transfer Frame.

The ASM for one Transfer Frame shall immediately follow the end of the preceding Transfer Frame; i.e., there shall be no intervening bits (data or fill) preceding the ASM