

## SECTION 15

### DEFINITIONS

#### 15.1 INTRODUCTION

This section contains two reference listings for use with the text and equations of Parts I and II of this document. The first listing is a summary of all abbreviations; the second listing contains descriptions of all variables in this document.

#### 15.2 ABBREVIATIONS

Abbreviations for terms related to the Saturn Program, vehicle hardware, flight program software, etc., are listed alphabetically in Table 15-1.

#### 15.3 VARIABLE DICTIONARY

The variable dictionary, contained in Table 15-2, defines the variables used in the text and equations of this document. For each variable there is an identifying symbol, a definition, and, where appropriate, the dimensional unit to be used in the flight program. (Variables used in Eq. 5.4.2 through 5.4.7 and in Section 13 are dummy variables and are not defined in this listing. Their meaning is conveyed by the appropriate discussion in the text.)

Symbols with vincula identify mathematically defined vectors. In general, only this symbol is given in the dictionary. The identical symbol, without the vinculum, denotes the magnitude of the vector. Unless otherwise noted, any of the subscripts A, B, E, G, S, V, or 4 may be added to a vector symbol to

indicate the appropriate coordinate system to which the vector is referenced (see Section 2). A component of a vector is denoted by adding the additional subscripts x, y, or z, corresponding to the coordinate system axis.

Note 1: The definition provided by the dictionary consists only of the primary event which occurs at the corresponding time. Refer to the Event Sequence Timeline Table in Part II.

#### 15.4 MAXIMUM VALUES OF SELECTED VARIABLES

Table 15-3 contains the maximum expected values of selected variables. These maxima were derived from a series of simulations designed to force each variable to its maximum value.

The flight program scaling of these variables and the associated quantities must be capable of accommodating the values given in the table.

TABLE 15-1 ABBREVIATIONS

AP	Accelerometer Processing
BML	Boost Major Loop
BR	Buffer Register
BTC	Beginning of Telemetry Cycle
CCS	Command Communications System
CIU	Computer Interface Unit
CM	Command Module
CO	Cutoff
COD	Crossover Detector
CRP	Computer Reset Pulse
CSM	Command and Service Modules
D/A	Digital to Analog Conversion
DB	Disagreement Bit
DCS	Digital Command System
DI	Discrete Input (may have numerical suffix)
DIR	Discrete Input Register
DIS	Discrete Input Spares (may have numerical suffix)
DO	Discrete Output (may have numerical suffix)
DOM	Data Output Multiplexer
DOR	Discrete Output Register
EBW	Exploding Bridge Wire
EC	Expected Change
ECS	Environmental Control System
EDD	Equation Defining Document
EDS	Emergency Detection System
EMR	Error Monitor Register
EMRC	Engine Mixture Ratio Change
EOM	End of Mission
ESE	Electrical Support Equipment
ETC	End of Telemetry Cycle
ETW	Error Time Word
FCC	Flight Control Computer
G&C	Guidance and Control
GFP	Generalized Flight Program

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