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NAVSTAR GPS L5 Signal Specification

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Prepared by SC-159
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FOREWORD

This report was prepared by Special Committee 159 (SC-159) and approved by the RTCA Program Management Committee (PMC) on December 14, 2000.

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1 Introduction

1.1 Scope

This Signal Specification defines the requirements related to the signal interface between the Space Segment (SS) of the Global Positioning System (GPS) and the GPS Navigation Users for the L5 Navigation Signal.

1.2 Signal Specification Approval and Changes

RTCA is responsible for the basic preparation, approval, distribution, and retention of the Signal Specification.

Notes:

- 1. The U.S. Department of Defense (DoD) will generate a GPS Interface Control Document (ICD) based on this document (after approval of this document by the U.S. Interagency GPS Executive Board). To facilitate conversion to an ICD, this document follows the section numbering convention and section titles used by previous DoD GPS ICDs.*
- 2. The L5 signal design, as documented in this document, is complete. However, specific values for various low-level requirements remain to be specified based upon space vehicle (SV) design tradeoffs that will be conducted by the Block IIF contractor under the constraints imposed by high-level performance requirements. Notes are included in sections of this document that include a low-level requirement with a value to-be-determined.*