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**Minimum Operational Performance Standards for Optional Equipment
which Displays Non-Radar Derived Data on Weather and Ground Mapping
Radar Indicators**

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SC-133

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F O R E W O R D

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T A B L E O F C O N T E N T S

	<u>Page</u>
FOREWORD	i
TABLE OF CONTENTS	iii
1.0 PURPOSE AND SCOPE	1
1.1 Introduction	1
1.2 Operational Considerations	2
1.3 Test Procedures	2
1.3.1 Environmental Tests	3
1.3.2 Bench Tests	3
1.3.3 Installed System Tests	3
1.3.4 Operational Tests	4
1.4 Definitions	4
2.0 OPTIONAL EQUIPMENT REQUIREMENTS	5
2.1 General Requirements	5
2.1.1 Airworthiness	5
2.1.2 Intended Function	5
2.1.3 Federal Communications Commission	5
2.1.4 Operation of Controls	5
2.1.5 Accessibility of Controls	5
2.1.6 Effects of Test	5
2.1.7 Fire Protection	6
2.2 Equipment Performance - Standard Conditions	6
2.2.1 Mode Selection	6
2.2.2 Simultaneous Data Display	6
2.2.3 Cycle to Cycle Symbol Stability.....	6
2.2.4 Update Rate	6
2.2.5 Refresh Rate	6
2.2.6 Graphic Display	7
2.2.7 Alphanumeric Display	7
2.3 Equipment Performance - Environmental Conditions	9
2.3.1 Temperature and Altitude Tests	9
2.3.2 Temperature Variation Test	10

2.3.3	Humidity Test	10
2.3.4	Shock Tests	10
2.3.5	Vibration Tests	11
2.3.6	Explosion Test	11
2.3.7	Waterproofness (Drip Proof) Test	11
2.3.8	Fluids Susceptibility Tests	12
2.3.9	Sand and Dust Test	12
2.3.10	Fungus Resistance Test	12
2.3.11	Salt Spray Test	13
2.3.12	Magnetic Effect Test	13
2.3.13	Power Input Tests	13
2.3.14	Voltage Spike Conducted Test	14
2.3.15	Audio Frequency Conducted Susceptibility Test	14
2.3.16	Induced Signal Susceptibility Test	15
2.3.17	Radio Frequency Susceptibility Test (Radiated and Conducted)	15
2.3.18	Emission of Radio Frequency Energy Test	15
2.4	Equipment Test Procedures	17
2.4.1	Definitions of Terms and Conditions of Test	17
2.4.2	Detailed Test Procedures	18
	FIGURE 1	19
3.0	INSTALLED EQUIPMENT PERFORMANCE	25
3.1	Test Conditions	25
3.1.1	Power Input	25
3.1.2	Associated Equipment	25
3.1.3	Environment	25
3.1.4	Adjustment of Equipment	25
3.1.5	Warm-up Period	25
3.2	Equipment Installation	25
3.2.1	Equipment Function	25
3.2.2	Equipment Accessibility	25
3.2.3	Interference Effects	26
3.2.4	Failure Protection	26
3.3	Installed Equipment Performance Requirements	26
3.3.1	General Auxiliary Equipment Performance Requirements	26
3.3.2	Readability	26

3.4	Test Procedures for Installed Equipment Performance	27
3.4.1	Conformity Inspection	27
3.4.2	Ground Test Procedures	27
3.4.3	Flight Test Procedures	28
4.0	OPERATIONAL CHARACTERISTICS	29
4.1	Required Operational Characteristics	29
4.1.1	Power Input	29
4.1.2	Equipment Operating Modes	29
4.2	Test Procedures for Operational Characteristics	29
4.2.1	Power Input	29
4.2.2	Equipment Operating Modes	29
MEMBERSHIP	31

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1.0 PURPOSE AND SCOPE

1.1 Introduction

This document sets forth minimum operational performance standards for optional equipment which displays non-radar derived data on weather and ground mapping radar indicators. Incorporated within these standards are system characteristics that should be of value to users, designers, manufacturers and installers. These characteristics are intended to accord with requirements of various users. The optional equipment as defined in this standard can provide graphic and/or alphanumeric data. This equipment is not intended to be a flight instrument, but rather a supplement to aid the flight crew in correlation of numerous data sources.

Section 1.0 of this document is intended to provide information needed to understand the rationale for equipment characteristics and requirements stated in the remaining sections. It describes typical equipment applications and operational goals, as envisioned by the members of Special Committee 133, and is the basis for the standards stated in Sections 2.0 through 4.0. Definitions essential to proper understanding of this document are also provided in Section 1.0.

Section 2.0 contains the minimum performance standards for the equipment. These standards define the required performance under standard operating conditions and stressed physical environmental conditions. It also details the recommended bench test procedures necessary to demonstrate compliance.

Section 3.0 describes the performance required of the installed equipment. Tests for the installed equipment are included when performance cannot be adequately determined through bench testing.

Section 4.0 describes the operational characteristics for equipment installations and defines conditions that will assure the operator that operations can be conducted safely and reliably in the expected operational environment.

Compliance with these standards by manufacturers, installers and users is recommended as one means of assuring that the equipment will satisfactorily perform its intended function(s) under all conditions normally encountered in routine operations.

It is recognized that any regulatory application of this document in whole, or in part, is the sole responsibility of appropriate governmental agencies.