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**Minimum Operational Performance Standards
(MOPS) for Airborne Distance Measuring
Equipment (DME) Operating Within the Radio
Frequency Range of 960-1215 MHz**

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F O R E W O R D

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TABLE OF CONTENTS

	Page
FOREWORD	i
TABLE OF CONTENTS	iii
1.0 PURPOSE AND SCOPE	1
1.1 Introduction	1
1.2 System Overview	2
1.3 Operational Applications	4
1.3.1 General	4
1.3.2 Typical Applications	4
1.4 Operational Goals	5
1.4.1 Accuracy	5
1.4.2 Range	5
1.4.3 Data Inputs	7
1.4.4 Outputs	7
1.4.5 Warnings	7
1.4.6 Data Display	7
1.5 Test Procedures	7
1.5.1 Environmental Tests	8
1.5.2 Bench Tests	8
1.5.3 Installed Equipment Tests	8
1.5.4 Operational Tests	8
1.6 Definitions of Terms	9
Figure 1-1 Standard High Altitude Service Volume	6
Figure 1-2 Standard Low Altitude Service Volume	6
Figure 1-3 Standard Terminal Service Volume	6
Figure 1-4 Standard DME/P Service Volume	6
Figure 1-5 Virtual Origin	13
2.0 AIRBORNE DISTANCE MEASURING EQUIPMENT REQUIREMENTS AND TEST PROCEDURES	15
2.1 General Requirements	15
2.1.1 Airworthiness	15
2.1.2 Intended Function	15
2.1.3 Federal Communications Commission Rules	15
2.1.4 Fire Protection	15
2.1.5 Operation of Controls	15
2.1.6 Effects of Test	16
2.1.7 Distance Measurement	16
2.1.8 Channel Selection	16

	Page
2.2 DME/N Performance - Standard Conditions	17
2.2.1 Accuracy	17
2.2.2 Interrogation Pulse Spectrum	17
2.2.3 Interrogator Pulse Characteristics	18
2.2.3.1 Pulse Rise Time	18
2.2.3.2 Pulse Decay Time	18
2.2.3.3 Pulse Duration	18
2.2.3.4 Pulse Top	18
2.2.4 Interrogator Pulse Coding	18
2.2.5 Interrogator Pulse Repetition Frequency	18
2.2.6 Interrogator Frequency Stability	19
2.2.7 Interrogator Peak Power	19
2.2.7.1 Second Pulse	19
2.2.7.2 First Pulse	19
2.2.8 Receiver Sensitivity	20
2.2.9 Receiver Decoder Selectivity and Rejection	21
2.2.10 ON and OFF Channel Signal Rejection	21
2.2.10.1 Off-Code On-Frequency Signal Rejection	22
2.2.10.2 Off-Frequency On-Code Signal Rejection	22
2.2.10.3 Off-Frequency Off-Code Rejection	22
2.2.10.4 Co-Channel Signal Rejection	23
2.2.11 Receiver Susceptibility to CW Interference	23
2.2.12 Identification	23
2.2.13 Memory	24
2.2.14 Echo Susceptibility	24
2.2.15 Rejection of Inter-Pulse CW	24
2.2.16 Emission of Spurious CW RF Energy	25
2.2.17 Antenna	25
2.2.17.1 Polarization	25
2.2.17.2 Antenna Radiation Pattern	25
2.2.17.3 Antenna Voltage Standing Wave Ratio	26
2.2.18 Warnings	26
2.3 DME/P Performance - Standard Conditions	27
2.3.1 Accuracy	27
2.3.1.1 Standard 1	28
2.3.1.2 Standard 2	29
2.3.1.3 Accuracy in the Presence of Garble	29
2.3.1.4 Accuracy Degradation in the Presence of Multipath	30
2.3.1.5 Range Rate	31

	Page
2.3.2 Interrogator Pulse Spectrum	31
2.3.3 Interrogator Pulse Characteristics	31
2.3.3.1 Pulse Rise Time	31
2.3.3.2 Pulse Partial Rise Time - Final Approach Mode	31
2.3.3.3 Pulse Decay Time	31
2.3.3.4 Pulse Duration	31
2.3.3.5 Pulse Top	31
2.3.3.6 Initial Pulse Shape - Final Approach Mode ...	33
2.3.4 Interrogator Pulse Coding	33
2.3.5 Interrogator Pulse Repetition Frequency	33
2.3.6 Interrogator Frequency Stability	34
2.3.7 Interrogator Peak Power	34
2.3.7.1 IA Mode Second Pulse	34
2.3.7.2 FA Mode Second Pulse	34
2.3.7.3 First Pulse	34
2.3.8 Receiver Sensitivity	35
2.3.9 Receiver Selectivity	35
2.3.10 Receiver Decoder Selectivity	36
2.3.11 Search and Track	36
2.3.11.1 IA Mode Acquisition	36
2.3.11.2 Transition to FA Mode	36
2.3.11.3 Track	36
2.3.11.4 Memory	36
2.3.12 ON and OFF Channel Signal Rejection	37
2.3.12.1 Off-Code On-Frequency Signal Rejection	37
2.3.12.2 Off-Frequency On-Code Signal Rejection	37
2.3.12.3 Off-Frequency Off-Code Rejection	38
2.3.12.4 Co-channel Signal Rejection	38
2.3.13 Receiver Susceptibility to CW Interference	39
2.3.14 Identification	39
2.3.15 Echo Susceptibility	40
2.3.16 Rejection of Inter-Pulse CW	40
2.3.17 Emission of Spurious CW RF Energy	40
2.3.18 Antenna	40
2.3.19 Warnings/Annunciated Output Conditions	40
2.3.20 Output Data Filter	40
2.4 Equipment Performance - Environmental Conditions	43
2.4.1 Temperature and Altitude Tests	43
2.4.1.1 Temperature Test	43
2.4.1.2 Altitude Tests	44

	Page
2.4.1.3 Decompression Test	44
2.4.1.4 Overpressure Test	44
2.4.2 Temperature Variation	45
2.4.3 Humidity	45
2.4.4 Shock Tests	46
2.4.4.1 Operational Shock	46
2.4.4.2 Crash Safety Shock	46
2.4.5 Vibration	46
2.4.6 Explosion Proofness	47
2.4.7 Waterproofness	47
2.4.7.1 Drip Proof Test	47
2.4.7.2 Spray Proof Test	47
2.4.8 Fluids Susceptibility	48
2.4.8.1 Spray Test	48
2.4.8.2 Immersion Test	48
2.4.9 Sand and Dust	49
2.4.10 Fungus Resistance	49
2.4.11 Salt Spray	49
2.4.12 Magnetic Effect	50
2.4.13 Power Input	50
2.4.13.1 Normal Operating Conditions	50
2.4.13.2 Abnormal Operating Conditions	50
2.4.14 Voltage Spike	51
2.4.14.1 Category A Requirements	51
2.4.14.2 Category B Requirements	51
2.4.15 Audio Frequency Conducted Susceptibility - Power Inputs	52
2.4.16 Induced Signal Susceptibility	52
2.4.17 Radio Frequency Susceptibility	52
2.4.18 Emission of Radio Frequency Energy	52
2.5 DME Test Procedures	53
2.5.1 Test Conditions	53
2.5.2 Description of Test Equipment for DME/N	54
2.5.3 Detailed Test Procedures for DME/N	57
2.5.3.1 Distance Measurement/Accuracy	57
2.5.3.2 Interrogator Pulse Spectrum	57
2.5.3.3 Interrogator Pulse Characteristics	59
2.5.3.4 Interrogator Pulse Coding	62

	Page
2.5.3.5 Interrogator Pulse Repetition Frequency (PRF)	62
2.5.3.6 Interrogator Frequency Stability	63
2.5.3.7 Interrogator Peak Power	63
2.5.3.8 Receiver Sensitivity Range	66
2.5.3.9 Channel Selection Receiver Decoder Selectivity and Rejection	66
2.5.3.10 Amplitude Differentiation	67
2.5.3.11 Receiver Susceptibility to CW Interference ..	69
2.5.3.12 Identification	69
2.5.3.13 Memory/Warnings	71
2.5.3.14 Echo Susceptibility	71
2.5.3.15 Rejection of Inter-Pulse CW	72
2.5.3.16 Emission of Spurious Radio-Frequency Energy .	72
2.5.3.17 Antenna Radiation Pattern	73
2.5.3.18 Antenna Voltage Standing Wave Ratio	75
2.5.4 Description of Test Equipment - DME/P	77
2.5.5 Detailed Test Procedures for DME/P	77
2.5.5.1 Distance Measurement/Accuracy	78
2.5.5.2 Accuracy and Efficiency Degradation in the Presence of Garble	82
2.5.5.3 Accuracy Degradation in the Presence of Multipath	86
2.5.5.4 Range Rate	88
2.5.5.5 Interrogator Pulse Spectrum	89
2.5.5.6 Interrogator Pulse Characteristics	89
2.5.5.7 Interrogator Pulse Coding	90
2.5.5.8 Interrogator Pulse Repetition Frequency	90
2.5.5.9 Interrogator Frequency Stability	90
2.5.5.10 Interrogator Peak Power	90
2.5.5.11 Receiver Sensitivity	90
2.5.5.12 Receiver Bandwidth	91
2.5.5.13 Channel Selection/Receiver Decoder Selectivity	92
2.5.5.14 Search, Track and Warning/Annunciated Outputs	92
2.5.5.15 ON and OFF Channel Signal Rejection	95
2.5.5.16 Receiver Susceptibility to CW Interference ..	97
2.5.5.17 Identification	99
2.5.5.18 Echo Susceptibility	100
2.5.5.19 Rejection of Inter-Pulse CW	100
2.5.5.20 Emission Spurious of CW RF Energy	100
2.5.5.21 Antenna	100
2.5.5.22 Output Data Filter	100
Table 2-1 Pulse Pair Spacings	33
Figure 2-1 Pulse Shape Below 30% Amplitude	32
Figure 2-2 Accuracy/Sensitivity/Amplitude Differentiation/ Identification/Echo Susceptibility	58
Figure 2-3 Interrogator Pulse Spectrum	60
Figure 2-4 Interrogator Pulse Characteristics/Pulse Coding/Peak Power	61

	Page
Figure 2-5 Interrogator Pulse Repetition Rate/Selectivity/Decoder Selectivity/Search Speed/Memory	64
Figure 2-6 Interrogator Frequency Stability	65
Figure 2-7 Spurious Response	70
Figure 2-8 Spurious Radio - Frequency Emission Measurement	74
Figure 2-9 Distance Measurement Test Setup	79
Figure 2-10A Garble Test Setup	83
Figure 2-10B Garble Test Setup Using TSS	83
Figure 2-11 Multipath Degradation Sensitivity Range Rate Search and Track	87
Figure 2-12 Search and Track	93
Figure 2-13 Spurious Response	98
 3.0 INSTALLED EQUIPMENT PERFORMANCE	 103
3.1 Equipment Installation	103
3.1.1 Equipment Accessibility	103
3.1.2 Displays	103
3.1.3 Dynamic Response	103
3.1.4 Aircraft Environment	103
3.1.5 Inadvertent Turnoff	103
3.2 Installed Equipment Performance Requirements	103
3.2.1 General Performance Requirements	103
3.2.2 Interference	104
3.2.3 Antenna Performance	104
3.3 Conditions of Test	104
3.3.1 Power Input	104
3.3.2 Associated Equipment or Systems	105
3.3.3 Environment	105
3.3.4 Adjustment of Equipment	105
3.3.5 Warm-up Period	105
3.4 Test Procedures for Installed Equipment Performance	105
3.4.1 Conformity Inspection	105
3.4.2 Ground Test Procedure	105
3.4.2.1 DME/P Test Equipment	105
3.4.2.2 Equipment Function	106
3.4.2.3 Interference Effects	106
3.4.2.4 Power Supply Fluctuations	106
3.4.2.5 Equipment Accessibility	107
3.4.3 Flight Test Procedures	107
3.4.3.1 Interference Effects	107

	Page
3.4.3.2 DME/N Equipment	107
3.4.3.3 DME/P Equipment	108
4.0 OPERATIONAL CHARACTERISTICS	111
4.1 Required Operational Characteristics	111
4.1.1 Characteristics Checked in Pre-Flight and Flight Operations	111
4.2 Test Procedures	111
4.2.1 Procedures for Verifying Characteristics Normally Checked in Pre-Flight and Flight Operations	111
4.2.1.1 Power Input	111
4.2.1.2 Data Display	112
4.2.1.3 Facility Identification	112
MEMBERSHIP	113
APPENDIX A - DME Channel Plan	
APPENDIX B - DME/P The New International Standard	
APPENDIX C - Test Signal For DME/N	
APPENDIX D - Measurement Methodology for PFE and CMN	
APPENDIX E - Standard Test Signal for DME/P	
APPENDIX F - Virtual Origin	

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1.0 PURPOSE AND SCOPE

1.1 Introduction

This document contains minimum operational performance standards for airborne distance measuring equipment (DME) operating within the radio frequency range of 960-1215 MHz. These standards contain system characteristics that should be beneficial to the various users of the system as well as designers, manufacturers and installers.

Section 1.0 of this document provides information needed to understand the rationale for equipment characteristics and requirements stated in the remaining sections. It describes typical equipment applications and operational goals, and is the basis for the standards stated in Sections 2.0 through 4.0. Definitions and assumptions 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 required performance under standard operating conditions and stressed physical environmental conditions. The document also details 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 performance characteristics for equipment installations and defines conditions and tests that will assure the user that the equipment will perform 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 aeronautical operations.

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

Since the measured values of equipment performance characteristics may be a function of the measurement method, standard test conditions and methods of test are recommended in this document.

This document considers a configuration of airborne equipment encompassing: An antenna system, transmission lines, DME interrogator, interrogator control unit and interfaces with aircraft displays/systems. Additional functions and components that refer to expanded capabilities are identified as optional features.