
TABLE OF CONTENTS

1.0 PURPOSE	1
2.0 SCOPE AND IMPLEMENTATION	1
2.1 SCOPE	1
2.2 APPLICATION	1
3.0 REFERENCED PUBLICATIONS	1
4.0 DEFINITIONS	2
5.0 PERSONNEL SAFETY	2
6.0 ESD CONTROL PROGRAM	2
6.1 ESD CONTROL PROGRAM FOR HIGH-RELIABILITY APPLICATIONS.....	2
6.2 QUALITY MANAGEMENT SYSTEM (QMS) ENHANCEMENTS	3
6.3 ESD CONTROL PROGRAM MANAGER OR COORDINATOR	3
6.4 TAILORING.....	4
7.0 ESD CONTROL PROGRAM ADMINISTRATIVE RECOMMENDATIONS	4
7.1 ESD CONTROL PROGRAM PLAN.....	4
7.2 TRAINING PLAN.....	5
7.3 PRODUCT QUALIFICATION PLAN.....	5
7.4 COMPLIANCE VERIFICATION PLAN.....	5
7.5 RELATIVE HUMIDITY CONSIDERATIONS.....	6
8.0 ESD CONTROL PROGRAM PLAN TECHNICAL RECOMMENDATIONS	6
8.1 GROUNDING/EQUIPOTENTIAL BONDING SYSTEMS.....	7
8.2 PERSONNEL GROUNDING	7
8.3 ESD PROTECTED AREAS (EPAS).....	7
8.3.1 <i>Establishing High-Reliability ESD Control Area Requirements</i>	8
8.3.2 <i>Insulators and Electrostatic Fields</i>	9
8.3.3 <i>Isolated Conductors</i>	9
8.3.4 <i>Worksurfaces</i>	9
8.4 PACKAGING SYSTEMS	9
8.5 DESIGN	10
8.5.1 <i>Increasing Design Margins</i>	10
8.5.2 <i>Reducing Design Risks</i>	10
8.5.3 <i>Increasing Protection Redundancy in Design</i>	10
8.5.4 <i>Design Hardening Recommendations</i>	10
8.6 SYSTEM CONSIDERATIONS	10

Annexes

Annex A (Informative): Compliance Verification Recommendations..... 11
Annex B (Informative): ESD Sensitivity Testing 13
Annex C (Informative): Related Documents 15
Annex D (Informative): Revision History for ESD TR19.0-01-22 16

Tables

Table 1: ESD Susceptibility Test References for Devices 14