

CONTENTS

| | |
|--|----|
| FOREWORD | 3 |
| INTRODUCTION | 5 |
| 1 Scope | 6 |
| 2 Normative references | 6 |
| 3 Terms and definitions | 7 |
| 4 Electrostatic hazards | 8 |
| 4.1 General..... | 8 |
| 4.2 ESD effects on equipment..... | 9 |
| 4.3 Contamination caused by ESA | 9 |
| 4.4 Ignition of flammable substances | 10 |
| 4.5 Electrostatic shock to people | 10 |
| 5 Electrostatic control requirements..... | 10 |
| 5.1 General..... | 10 |
| 5.2 Medical procedures..... | 10 |
| 5.3 Medical locations | 10 |
| 5.3.1 Classification by groups..... | 10 |
| 5.3.2 Unclassified rooms | 11 |
| 5.3.3 Group 0 – Electrostatic control recommended..... | 11 |
| 5.3.4 Group 1 – Electrostatic control recommended..... | 11 |
| 5.3.5 Group 2 – Electrostatic control required..... | 11 |
| 5.4 Service and maintenance | 12 |
| 5.5 Administrative requirements and recommendations..... | 12 |
| 5.5.1 Designing facilities..... | 12 |
| 5.5.2 Operational responsibility | 12 |
| 5.5.3 Qualification and verification..... | 12 |
| 5.6 Technical requirements | 12 |
| 5.6.1 Electrical safety | 12 |
| 5.6.2 Material classification | 12 |
| 5.6.3 Selection of materials for static control | 14 |
| 5.7 Packaging, containers and other control items | 16 |
| Annex A (normative) Test methods for low charging textiles | 17 |
| A.1 Test methods for clothing and upholstery | 17 |
| A.2 Test methods for bedding, curtains, and surgical drapes | 17 |
| Annex B (informative) Ionization and other considerations | 21 |
| Bibliography..... | 22 |
| Figure A.1 – Example of test equipment set up for measuring body voltage when removing item of bedding or surgical drape from person wearing reference clothing | 18 |
| Figure A.2 – Example of test equipment set up for measuring body voltage when removing item of bedding or surgical drape from bed or examination/operating table | 19 |
| Figure A.3 – Example of test equipment set up for measuring body voltage on two people when removing item of bedding or surgical drape | 20 |
| Table 1 – Summary of electrostatic control methods for specified locations | 11 |