

ISO 29661:2012-09 (E)

Reference radiation fields for radiation protection - Definitions and fundamental concepts

| Contents | | Page |
|--|--|-------------|
| Foreword | | iv |
| Introduction | | v |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 3.1 | General | 1 |
| 3.2 | Quantities and conversion coefficients | 9 |
| 4 | Symbols | 15 |
| 5 | Application of the measurement quantities and units | 17 |
| 5.1 | Measurement quantities for area monitoring | 17 |
| 5.2 | Measurement quantities for individual monitoring | 18 |
| 5.3 | Establishing of the measurement quantities for area and individual monitoring | 18 |
| 6 | Calibration and determination of the response in reference radiation fields | 18 |
| 6.1 | General principles | 18 |
| 6.2 | Calibration in reference radiation fields | 19 |
| 6.3 | Determination of the response in reference radiation fields | 21 |
| 6.4 | Methods for the determination of the calibration coefficient | 22 |
| 6.5 | Special considerations for area dosimeters (area survey meters) | 25 |
| 6.6 | Special considerations for personal dosimeters | 26 |
| 7 | Uncertainty | 29 |
| 8 | Certificates | 29 |
| Annex A (normative) List of reference conditions and standard test conditions | | 30 |
| Annex B (normative) Description of the calibration coefficient | | 31 |
| Bibliography | | 33 |