

ISO 11665-8:2019-12 (E)

Measurement of radioactivity in the environment - Air: radon-222 - Part 8: Methodologies for initial and additional investigations in buildings

Contents	Page
Foreword	iv
Introduction	v
1 Scope	1
2 Normative references	1
3 Terms, definitions and symbols	1
3.1 Terms and definitions	1
3.2 Symbols	3
4 Organization of the measuring stages	4
5 Initial investigations	4
5.1 Objective	4
5.2 Methodology followed during the initial investigation	4
5.3 Selection of measuring devices	5
5.4 Location of the measuring points	5
5.4.1 General	5
5.4.2 Determination and selection of the homogeneous zones	5
5.4.3 Number of measuring devices to be installed	6
5.4.4 Installation of measuring devices	6
5.5 Installation and removal of the measuring devices	6
5.6 Processing of the measuring devices	7
5.7 Data analysis	7
5.8 Initial investigation report	8
6 Additional investigations	8
6.1 General	8
6.2 Methodology for additional investigations	9
6.2.1 General	9
6.2.2 Building mapping	9
6.2.3 Identification of radon sources and entry routes	9
6.2.4 Identification of transfer pathways	10
6.3 Report of additional investigations	11
7 Immediate post-mitigation testing of the technical solutions applied	12
8 Control of the effectiveness of the technical solutions applied	12
9 Control of the sustainability	12
Annex A (informative) Examples of underground buildings and buried levels	13
Annex B (informative) Organization of radon measuring phases in a building	14
Annex C (informative) Initial investigation report	15
Annex D (informative) Example of analysis of initial investigation measurement results	17
Bibliography	18