

ISO 20043-2:2023-07 (E)

Measurement of radioactivity in the environment - Guidelines for effective dose assessment using environmental monitoring data - Part 2: Emergency exposure situation

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Symbols	4
5	Principle	6
6	Implementation system of monitoring and emergency response plan	9
6.1	General	9
6.2	Plan and implementation system	9
6.3	Urgent response phase monitoring	10
6.4	Early response phase monitoring	11
6.5	Transition phase monitoring	12
7	Guidance on emergency measurement	12
7.1	General	12
7.2	Ambient dose equivalent	13
7.3	Measurement by survey meter and monitoring vehicle	13
7.4	Aerial monitoring	13
7.5	Radiation monitoring on surface water	13
7.6	Environmental media and food monitoring	14
7.6.1	General	14
7.6.2	Measurement of radioactive materials in environmental media	14
7.6.3	Measurement of radioactive materials in food and drink	14
8	Discussion of Default OILs	14
8.1	Radiation monitoring for OIL 1	14
8.2	Radiation monitoring for OIL 2	14
8.3	Radiation monitoring for OIL 6	15
9	Projected dose assessment based on monitoring results	15
9.1	General	15
9.2	Projected dose assessment during a release	16
9.3	Projected dose assessment after a plume passage	18
10	Laboratory management	19
10.1	Laboratory staff management	19
10.2	Sample management	20
10.3	Quality management	20
10.4	Publication of results	20

Annex A (informative) OILs for assessing the results of field monitoring and screening of foodstuff concentrations from laboratory analysis	21
Annex B (informative) Example of operational intervention levels determination related to living area during plume passage	23
Annex C (informative) Example of operational intervention levels determination related to living area after a plume passage	27
Bibliography	32