

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **K 128**

of **Ministerie van Defensie, Logistiek Centrum Woensdrecht**
Afdeling Onderhoud en Logistiek, 982 Squadron Technologie en Missieondersteuning,
PVE CBRNe

This annex is valid from: **22-07-2021** to **01-09-2024**

Replaces annex dated: **08-07-2020**

Location(s) where activities are performed under accreditation

Head Office

Kanaalweg 119
 5104 AB
 Dongen
 The Netherlands

Location	Abbreviation/ location code
Kanaalstraat 119 5104 AB Dongen The Netherlands	DON

HCS code	Measured quantity, Instrument, Measure	Range ²	CMC ¹	Remarks	Location
IR 1 0	IONIZING RADIATION AND RADIOACTIVITY				
IR 1 2	Dosimetric Quantities				DON
	Air kerma rate				DON
	Cs-137	270·10 ⁻⁹ - 1.10·10 ⁻⁶ Gy·h ⁻¹	8.5%		
	Cs-137	1.10·10 ⁻⁶ - 4.46·10 ⁻⁶ Gy·h ⁻¹	5.5%		
	Cs-137	4.46·10 ⁻⁶ - 4.03 Gy·h ⁻¹	4.5%		
	Co-60	27.3·10 ⁻⁶ - 5.39·10 ⁻³ Gy·h ⁻¹	4.0%		

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

¹ Calibration and Measurement Capability (CMC): Demonstrated measurement uncertainty, with coverage probability of 95%, in a given measurement point or measurement range. Measurement uncertainty, *U*, is calculated according to EA-4/02 "Evaluation of the Uncertainty of Measurement in Calibration".

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HCS code	Measured quantity, Instrument, Measure	Range ²	CMC ¹	Remarks	Location
IR 1 3	Radioprotection Quantities				DON
	Personal dose equivalent rate				DON
	Cs-137	$326 \cdot 10^{-9} - 1.34 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	9.5%		
	Cs-137	$1.34 \cdot 10^{-6} - 5.39 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	6.5%		
	Cs-137	$5.39 \cdot 10^{-6} - 4.87 \text{ Sv} \cdot \text{h}^{-1}$	5.5%		
	Co-60	$31.4 \cdot 10^{-6} - 6.20 \cdot 10^{-3} \text{ Sv} \cdot \text{h}^{-1}$	5.5%		
	Ambient dose equivalent rate				DON
	Cs-137	$324 \cdot 10^{-9} - 1.33 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	9.5%		
	Cs-137	$1.33 \cdot 10^{-6} - 5.35 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	6.5%		
	Cs-137	$5.35 \cdot 10^{-6} - 4.83 \text{ Sv} \cdot \text{h}^{-1}$	5.5%		
	Co-60	$31.6 \cdot 10^{-6} - 6.25 \cdot 10^{-3} \text{ Sv} \cdot \text{h}^{-1}$	5.5%		
	Photon dose equivalent rate				DON
	Cs-137	$308 \cdot 10^{-9} - 1.26 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	9.5%		
	Cs-137	$1.26 \cdot 10^{-6} - 5.08 \cdot 10^{-6} \text{ Sv} \cdot \text{h}^{-1}$	6.5%		
	Cs-137	$5.08 \cdot 10^{-6} - 4.59 \text{ Sv} \cdot \text{h}^{-1}$	5.5%		
	Co-60	$31.1 \cdot 10^{-6} - 6.15 \cdot 10^{-3} \text{ Sv} \cdot \text{h}^{-1}$	5.5%		

Remarks:

The calibrations are carried out at an ambient temperature of nominal 22 °C.

² The kermatempi on which the scope is based have been established on 1 January 2021 at a temperature of 20 °C and an atmospheric airpressure of 101.325 kPa. The half-life for ⁶⁰Co is 1925.21 days and for ¹³⁷Cs it is 10976 days.

By means of half-life the actual (maximum) kermatempi can be calculated.

Reference: http://www.nucleide.org/DDEP_WG/DDEPdata.htm