Classification of services for RI CMCs

Branch		Quantity		Medium		Source	Radionuclide
1 Dosimetry	1	Absorbed dose/rate to air			1	Other	
_	2	Absorbed dose/rate to water			2	Electrons	
	3	Absorbed dose/rate to graphite			3	Beta radiation	
	4	Absorbed dose/rate to tissue			4	X-ray, 10 kV to 50 kV	
	5	Absorbed dose/rate to other material			5	X-ray, 50 kV to 420 kV	
	6	Air kerma/rate			6	Photons, high energy	
	7	Reference air kerma rate			7	Co-60	
	8	Ambient dose equivalent/rate			8	Cs-137	
	9	Directional dose equivalent/rate			9	lr-192	
	10	Personal dose equivalent/rate, penetrating			10	Am-241	
	11	Personal dose equivalent/rate, superficial			11	Co-57	
	12	Air kerma length product			12	1-125	
	13	Air kerma area product			13	Pd-103	
	14	X-ray tube voltage					
2 Radioactivity	1	Activity	1	Other	1	Single-radionuclide source	Xx-00
_	2	Activity per unit mass	2	Gas	2	Multi-radionuclide source	
	3	Activity per unit area	3	Liquid	3	Kx-rays	
	4	Activity per unit volume	4	Solid			
	5	Surface emission rate	5	Aerosol			
	6	Surface emission rate per unit area	6	Reference material: other			
	7	Emission rate per unit solid angle	7	Reference material: foods			
	8	Emission rate	8	Reference material: water			
	9	Efficiency of γ -ray spectrometers (versus energy)	9	Reference material: biological materials			
	10	Efficiency of ionization chambers	10	Reference material: soils/sediments			
	11	Efficiency of contamination monitors	11	Reference material: fiora			
3 Neutron	1	Emission rate	12	Reference material: building materials	1	Other	
Measurements	2	Emission anisotropy			2	Monoenergetic neutrons	
	3	Fluence			3	Thermal neutron distribution	
	4	Fluence rate			4	Wide energy range neutrons	
	5	Ambient dose equivalent			5	Cf-252 source	
	6	Ambient dose equivalent rate			6	Cf-252 source, D ₂ O moderated	
	7	Personal dose equivalent			7	Am-241/Be-9 source	
	8	Personal dose equivalent rate			8	Am-241/B source	
	9	Absorbed dose to water			9	Am-241/Li-7 source	
	10	Absorbed dose rate to water			10	Am-241/F-19 source	
	11	Absorbed dose to graphite					
	12	Absorbed dose rate to graphite					
	12	Absorbed dose rate to tissue					
	15	Absorbed dose to other material					
	16	Absorbed dose rate to other material					

The JCRB document "International Rules for Filling in the CMC Tables for Ionizing Radiation" agreed in 2004 is available by clicking <u>here</u>. The radionuclide groupings table with expanded uncertainties agreed in 2005 is only available to CMC reviewers.