

Department of the Army
 License No. 29-01022-06
 Docket No. 03005248
 Control Nos. 136374 and 137197

Enclosure 2: Financial Assurance Worksheet, if limits as described in November 4, 2005 letter.

10 CFR 30.35, byproduct material (BPM), unsealed materials

Radionuclide authorized in unsealed form	Quantity authorized	Quantity requiring FA	Fraction
Any BPM 3-83	10 mCi	0.01 mCi (Most restrictive radionuclide from 10 CFR 30, App B)	1000
Any BPM > 83	1 mCi	0.01 mCi (Most restrictive radionuclide from 10 CFR 30, App B)	100
hydrogen 3	30 curies	1 Ci	30
carbon 14	NA	100 mCi	
Strontium 90	NA	0.100 mCi	
cesium 137	NA	10 mCi	
lead 210	NA	0.01 mCi	
polonium 210	10 uCi = 0.01 mCi	0.01 mCi	1
radium 226	NA	0.01 mCi	
americium 241	0.9 mCi	0.01 mCi	90
If sum of fractions is ≤ 1 , no FA is required. > 1 but ≤ 10 , \$225,000 certification amount is required. > 10 but ≤ 100 , \$1,125,000 certification amount is required. > 100 , a DFP is required.			1221

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10 CFR 30.35, byproduct material (BPM), SEALED materials

Radionuclide authorized in unsealed form	Quantity authorized	Quantity requiring FA	Fraction
Any BPM 3-83	1 Ci	100 Ci (Most restrictive radionuclide from 10 CFR 30, App B)	0.01000
Any BPM > 83	NA	100 Ci (Most restrictive radionuclide from 10 CFR 30, App B)	
hydrogen 3	NA	1 E7 Ci	
cobalt 60	15 curies	10,000 Ci	0.00150
Strontium 90	5 curies	1,000 Ci	0.00500
cesium 137	(15 + 136) = 151 curies	100,000 Ci	0.00150
lead 210	NA		
polonium 210	NA		
radium 226	NA		
americium 241	1 mCi = 0.001 Ci	100 Ci	0.00001
californium 252	1 curie	100 Ci	0.01000
If sum of fractions is ≤ 1 , no FA is required. > 1 but ≤ 100 , \$113,000 certification amount is required. > 100 , a DFP is required.			0.02801

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10 CFR 40.36, source material in readily dispersible form

Radionuclide Authorized	Quantity Authorized	Quantity requiring FA	Fraction
uranium - natural	5 kg = 1.8 mCi	10 mCi	0.18
uranium - depleted		10 mCi	
thorium - natural	10 kg = 2.2 mCi	10 mCi	0.22
thorium 230		10 mCi	
thorium 232		10 mCi	
thorium 230 (from BPM license)		10 mCi	
If sum of fractions is ≤ 1 , no FA is required. > 1 but ≤ 10 , \$225,000 certification amount is required. > 10 , a DFP is required.			0.4

Uranium (nat'l or DU): 10 mCi = 28 kg

thorium: 10 mCi = 45 kg

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10 CFR 70.25, special nuclear material, unsealed

Radionuclide Authorized	Quantity Authorized	Quantity requiring FA	Fraction
uranium - enriched 2%	NA	0.01 mCi	
uranium - enriched 1%	NA	0.01 mCi	
** Specific Activity = $[0.4 + 0.38(\text{enrichment}) + 0.0034(\text{enrichment})^2]$ E-6 curies per gram			
plutonium 238	NA	0.01 mCi	
plutonium 239	NA	0.01 mCi	
plutonium 240	NA	0.01 mCi	
plutonium 241	NA	0.01 mCi	
plutonium 242	NA	0.01 mCi	
plutonium 244	NA	0.01 mCi	
If sum of fractions is ≤ 1 , no FA is required. > 1 but ≤ 10 , \$225,000 certification amount is required. > 10 but ≤ 100 , \$1,125,000 certification amount is required. > 100 , a DFP is required.			NA

NOTE: there is a separate requirement in Part 70 for sealed SNM sources:			
plutonium-238	10 uCi	100 Ci	no FA required