

4/20/99

Nuclide	half-life	NUREG/CR-4982			half-life	0 days after last batch put in pool (Ci)	NUREG/CR-498 Predicted using half-life			% off at 90 days	% off at 1 year
		30 days after last batch put in pool (Ci)	90 days after last batch put in pool (Ci)	1 year after last batch put in pool (Ci)			30 days after last batch put in pool (Ci)	90 days after last batch put in pool (Ci)	1 year after last batch put in pool (Ci)		
Co-58	70.9d	2.29E+04	1.26E+04	8.54E+02	70.9d	70.9	2.29E+04	1.27E+04	8.67E+02	-1	-1
Co-60	5.3y	3.72E+05	3.15E+05	2.85E+05	5.3y	1934.5	3.72E+05	3.64E+05	3.30E+05	-16	-16
Kr-85	10.8y	1.41E+06	1.39E+06	1.33E+06	10.8y	3942.0	1.41E+06	1.40E+06	1.33E+06	0	0
Rb-86	18.7d	1.01E+04	1.05E+03	3.84E-02	18.7d	18.7	1.01E+04	1.09E+03	4.10E-02	-4	-7
Sr-89	50.5d	8.39E+06	3.63E+06	8.33E+04	50.5d	50.5	8.39E+06	3.68E+06	8.46E+04	-1	-2
Sr-90	28.8y	1.42E+07	1.42E+07	1.39E+07	28.8y	10512.0	1.42E+07	1.41E+07	1.39E+07	0	0
Y-90	28.8y	1.43E+07	1.42E+07	1.39E+07	28.8y	10512.0	1.43E+07	1.42E+07	1.40E+07	0	-1
Y-91	58.5d	1.18E+07	5.75E+06	2.21E+05	58.5d	58.5	1.18E+07	5.80E+06	2.23E+05	-1	-1
Zr-95	64.0d	1.94E+07	1.00E+07	5.10E+05	64.0d	64.0	1.94E+07	1.01E+07	5.16E+05	-1	-1
Nb-95	64.0d	2.54E+07	1.70E+07	1.11E+06	64.0d	64.0	2.54E+07	1.33E+07	6.75E+05	22	39
Mo-99	2.7d	1.49E+04	3.12E-03	0	2.7d	2.7	1.49E+04	3.06E-03	6.78E-34	2	
Tc-99m	2.7d	1.43E+04	3.01E-03	0	2.7d	2.7	1.43E+04	2.93E-03	6.51E-34	3	
Ru-103	37.3d	1.53E+07	5.21E+06	4.07E+04	37.3d	37.3	1.53E+07	5.02E+06	3.03E+04	4	26
Ru-106	1.0y	1.72E+07	1.53E+07	9.13E+06	1.0y	365.0	1.72E+07	1.53E+07	9.11E+06	0	0
Sb-127	3.8d	8.21E+03	1.39E-01	0	3.8d	3.8	8.21E+03	1.45E-01	2.41E-23	-5	
Te-127	109d	2.21E+05	1.45E+05	2.52E+04	109d	109.0	2.21E+05	1.51E+05	2.63E+04	-4	-4
Te-127m	109d	2.18E+05	1.48E+05	2.57E+04	109d	109.0	2.18E+05	1.49E+05	2.59E+04	-1	-1
Te-129	33.8d	2.74E+05	7.79E+04	2.68E+02	33.8d	33.8	2.74E+05	7.95E+04	2.74E+02	-2	-2
Te-129m	33.8d	4.21E+05	1.20E+05	4.12E+02	33.8d	33.8	4.21E+05	1.22E+05	4.20E+02	-2	-2
Te-132	3.2d	3.74E+04	8.64E-02	0	3.2d	3.2	3.74E+04	8.51E-02	1.16E-27	2	
I-131	8.0d	1.22E+06	6.35E+03	0	8.0d	8.0	1.22E+06	6.75E+03	3.04E-07	-6	
I-132	3.2d	3.85E+04	8.90E-02	0	3.2d	3.2	3.85E+04	8.76E-02	1.20E-27	2	
Xe-133	5.2d	7.29E+05	2.30E+02	0	5.2d	5.2	7.29E+05	2.45E+02	2.98E-14	-7	
Cs-134	2.1y	7.90E+06	7.47E+06	5.80E+06	2.1y	766.5	7.90E+06	7.48E+06	5.84E+06	0	-1
Cs-136	13.2d	2.05E+05	8.13E+03	3.91E-03	13.2d	13.2	2.05E+05	8.78E+03	4.72E-03	-8	-21
Cs-137	30.0y	2.02E+07	2.01E+07	1.97E+07	30.0y	10950.0	2.02E+07	2.01E+07	1.98E+07	0	0
Ba-140	12.8d	5.19E+06	1.90E+05	6.41E-02	12.8d	12.8	5.19E+06	2.02E+05	6.89E-02	-6	-8
La-140	12.8d	5.97E+06	2.19E+05	7.37E-02	12.8d	12.8	5.97E+06	2.32E+05	7.93E-02	-6	-8
Ce-141	32.5d	1.32E+07	3.61E+06	1.03E+04	32.5d	32.5	1.32E+07	3.67E+06	1.04E+04	-2	-1
Ce-144	284.6d	2.64E+07	2.27E+07	1.16E+07	284.6d	284.6	2.64E+07	2.28E+07	1.17E+07	0	-1
Pr-143	13.6d	5.44E+06	2.41E+05	1.90E-01	13.6d	13.6	5.44E+06	2.56E+05	2.10E-01	-6	-10
Nd-147	11.0d	1.54E+06	3.36E+04	1.10E-03	11.0d	11.0	1.54E+06	3.51E+04	1.05E-03	-5	4
Np-239	2.4d	5.59E+04	2.88E+03	2.88E+03	2.4d	2.4	5.59E+04	1.67E-03	5.46E-38	100	100
Pu-238	87.7y	4.51E+05	4.53E+05	4.54E+05	87.7y	32010.5	4.51E+05	4.50E+05	4.48E+05	1	1
Pu-239	24100y	8.89E+04	8.89E+04	8.89E+04	24100y	8796500.0	8.89E+04	8.89E+04	8.89E+04	0	0
Pu-240	6560y	1.30E+05	1.30E+05	1.30E+05	6560y	2394400.0	1.30E+05	1.30E+05	1.30E+05	0	0
Pu-241	14.4y	2.29E+07	2.27E+07	2.19E+07	14.4y	5256.0	2.29E+07	2.27E+07	2.19E+07	0	0
Am-241	432.7y	2.88E+05	2.94E+05	3.21E+05	432.7y	157935.5	2.88E+05	2.88E+05	2.88E+05	2	10
Cm-242	162.8d	1.45E+06	1.12E+06	3.50E+05	162.8d	162.8	1.45E+06	1.12E+06	3.48E+05	0	0
Cm-244	18.1y	2.27E+05	2.25E+05	2.19E+05	18.1y	6606.5	2.27E+05	2.26E+05	2.19E+05	0	0