

Table C-7. Fission and activation product inventory (FPI) in LWR core about 30 min after shutdown (continued)

Fission product	Inventory [Ci/MW(e)]	Inventory [Ci/1000 MW(e)]
¹³⁵ Xe ^b	3.4E+04	3.4E+07
¹³⁸ Xe ^b	1.7E+05	1.7E+08
¹³⁴ Cs ^b	7.5E+03	7.5E+06
¹³⁶ Cs ^b	3.0E+03	3.0E+06
¹³⁷ Cs ^b	4.7E+03	4.7E+06
¹⁴⁰ Ba ^b	1.6E+05	1.6E+08
¹⁴⁰ La ^b	1.6E+05	1.6E+08
¹⁴¹ Ce	1.5E+05	1.5E+08
¹⁴³ Ce	1.3E+05	1.3E+08
¹⁴⁴ Ce ^b	8.5E+04	8.5E+07
¹⁴³ Pr	1.3E+05	1.3E+08
¹³⁷ Nd	6.0E+04	6.0E+07
²³⁹ Np ^b	1.6E+06	1.6E+09
²³⁸ Pu	5.7E+01	5.7E+04
²³⁹ Pu	2.1E+01	2.1E+04
²⁴⁰ Pu	2.1E+01	2.1E+04
²⁴¹ Pu	3.4E+03	3.4E+06
²⁴¹ Am	1.7E+00	1.7E+03
²⁴² Cm	5.0E+02	5.0E+05
²⁴⁴ Cm	2.3E+01	2.3E+04

^aIt is assumed that the core is at equilibrium [i.e., has been operating for at least one fueling cycle (18 months)]. This assumption could overestimate the inventory of long-lived fission products for a new core. Only the fission products with half-lives greater than 30 min are considered.

^bFission products that should be considered in assessments because they are either a major contributor to early phase dose or they are likely to be released (noble gases).

Source: WASH-1400, Table VI-3-1.

A/1

Table C-7. Fission and activation product inventory (FPI)
in LWR core about 30 min after shutdown (continued)

Fission product	Inventory [Ci/MW(e)]	Inventory [Ci/1000 MW(e)]
¹³⁵ Xe ^b	3.4E+04	3.4E+07
¹³⁵ Xe ^b	1.7E+05	1.7E+08
¹³⁴ Cs ^b	7.5E+03	7.5E+06
¹³⁶ Cs ^b	3.0E+03	3.0E+06
¹³⁷ Cs ^b	4.7E+03	4.7E+06
¹⁴⁰ Ba ^b	1.6E+05	1.6E+08
¹⁴⁰ La ^b	1.6E+05	1.6E+08
¹⁴¹ Ce	1.5E+05	1.5E+08
¹⁴³ Ce	1.3E+05	1.3E+08
¹⁴⁴ Ce ^b	8.5E+04	8.5E+07
¹⁴³ Pr	1.3E+05	1.3E+08
¹³⁷ Nd	6.0E+04	6.0E+07
²³⁹ Np ^b	1.6E+06	1.6E+09
²³⁸ Pu	5.7E+01	5.7E+04
²³⁹ Pu	2.1E+01	2.1E+04
²⁴⁰ Pu	2.1E+01	2.1E+04
²⁴¹ Pu	3.4E+03	3.4E+06
²⁴¹ Am	1.7E+00	1.7E+03
²⁴² Cm	5.0E+02	5.0E+05
²⁴⁴ Cm	2.3E+01	2.3E+04

^aIt is assumed that the core is at equilibrium [i.e., has been operating for at least one fueling cycle (18 months)]. This assumption could overestimate the inventory of long-lived fission products for a new core. Only the fission products with half-lives greater than 30 min are considered.

^bFission products that should be considered in assessments because they are either a major contributor to early phase dose or they are likely to be released (noble gases).

Source: WASH-1400, Table VI-3-1.