

ATTACHMENT A

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Table A-4. Source term data, particulate releases, Ci/yr.

Date	Cs137/Ba137m		B	B_SD	REDOX	R_SD	PUREX	P_SD
	T	T_SD						
1944	1.90E-02	1.65E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	3.38E+00	1.07E+00	3.12E+00	1.01E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	3.74E+00	1.09E+00	6.14E+00	1.56E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	3.26E+00	8.23E-01	3.68E+00	9.33E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	1.16E+00	4.94E-01	1.36E+00	5.83E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	3.86E-02	1.01E-02	3.11E-02	8.62E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	5.94E-02	1.54E-02	6.49E-02	1.68E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	9.19E-02	2.33E-02	8.65E-02	2.25E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	5.92E-02	1.71E-02	2.37E-02	1.10E-02	1.71E-01	4.71E-02	0.00E+00	0.00E+00
1953	4.41E-02	1.21E-02	0.00E+00	0.00E+00	2.87E-01	7.80E-02	0.00E+00	0.00E+00
1954	8.60E-02	2.22E-02	0.00E+00	0.00E+00	3.41E-01	9.17E-02	0.00E+00	0.00E+00
1955	1.05E-01	2.80E-02	0.00E+00	0.00E+00	3.93E-01	1.14E-01	0.00E+00	0.00E+00
1956	4.20E-03	2.62E-03	0.00E+00	0.00E+00	3.23E-01	9.22E-02	4.62E-01	1.38E-01
1957	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.54E-01	9.13E-02	8.57E-01	2.16E-01
1958	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.70E-01	7.59E-02	9.88E-01	2.64E-01
1959	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.38E-01	6.16E-02	1.23E+00	3.18E-01
1960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.96E-01	5.51E-02	1.44E+00	3.85E-01
1961	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.47E-01	9.11E-02	1.40E+00	3.71E-01
1962	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.67E-02	2.47E-02	5.34E-01	1.44E-01
1963	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.02E-01	3.06E-02	4.89E-01	1.40E-01
1964	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.64E-01	4.68E-02	5.02E-01	1.45E-01
1965	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.37E-01	4.02E-02	5.24E-01	1.49E-01
1966	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.25E-01	4.30E-02	3.66E-01	1.22E-01
1967	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.29E-01	1.17E-01
1968	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.69E-01	9.96E-02
1969	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-01	7.37E-02
1970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.24E-02	3.05E-02
1971	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.76E-01	9.73E-02
1972	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.32E-02	3.67E-02
1973	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-02	2.90E-03
1984	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-02	4.00E-03
1985	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	1.00E-03
1986	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.70E-03	8.70E-04
1987	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-05	4.00E-06
1988	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.00E-04	8.00E-05
1989	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.30E-03	1.30E-04
1990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.90E-04	6.90E-05
1991	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.10E-03	4.10E-04
1992	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-02	2.30E-03
1993	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-02	1.80E-03
1994	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.60E-04	6.60E-05
1995	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.50E-04	6.50E-05
1996	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.00E-04	6.00E-05
1997	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.60E-04	9.60E-05
1998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.20E-04	2.20E-05
1999	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-05	8.50E-06
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.80E-04	1.80E-05
2001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	1.50E-05

Table A-5. Source term data, particulate releases, Ci/yr.

Date	Pu239		B	B_SD	REDOX	R_SD	PUREX	P_SD	Z	Z_SD
	T	T_SD								
1944	6.50E-04	1.26E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	1.09E-01	7.66E-01	1.01E-01	7.29E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	1.18E-01	7.56E-01	1.98E-01	1.12E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	1.05E-01	5.91E-01	1.20E-01	6.79E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	3.76E-02	3.57E-01	4.38E-02	4.19E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	1.22E-03	7.15E-03	1.12E-03	6.73E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.45E-03	8.53E-03
1950	1.83E-03	1.06E-02	2.01E-03	1.16E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.25E-03	1.30E-02
1951	2.78E-03	1.57E-02	2.59E-03	1.50E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.23E-03	1.83E-02
1952	1.76E-03	1.14E-02	7.09E-04	7.29E-03	5.03E-03	3.10E-02	0.00E+00	0.00E+00	4.53E-03	2.58E-02
1953	1.28E-03	7.78E-03	0.00E+00	0.00E+00	8.55E-03	5.20E-02	0.00E+00	0.00E+00	6.17E-03	3.53E-02
1954	2.75E-03	1.60E-02	0.00E+00	0.00E+00	9.90E-03	5.94E-02	0.00E+00	0.00E+00	7.10E-03	4.28E-02
1955	3.38E-03	2.00E-02	0.00E+00	0.00E+00	1.17E-02	7.44E-02	0.00E+00	0.00E+00	9.45E-03	5.68E-02
1956	1.35E-04	1.89E-03	0.00E+00	0.00E+00	9.76E-03	6.10E-02	1.35E-02	8.87E-02	1.34E-02	7.93E-02
1957	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.05E-02	6.06E-02	2.56E-02	1.44E-01	2.20E-02	1.24E-01
1958	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.85E-03	4.98E-02	2.95E-02	1.76E-01	2.34E-02	1.35E-01
1959	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.78E-03	3.40E-02	3.53E-02	2.04E-01	2.56E-02	1.46E-01
1960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.80E-03	3.09E-02	4.19E-02	2.50E-01	2.85E-02	1.67E-01
1961	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.92E-03	4.65E-02	4.14E-02	2.42E-01	3.26E-02	1.86E-01
1962	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	1.83E-01	5.28E-04	3.16E-03	1.52E-02	1.38E-01
1963	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.03E-02	6.83E-02	4.63E-04	3.08E-03	7.05E-03	4.49E-02
1964	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.40E-02	8.91E-02	1.02E-03	1.15E-02	7.68E-03	4.98E-02
1965	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.01E-02	2.96E-01	5.33E-04	3.30E-03	1.77E-02	1.76E-01
1966	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.75E-02	1.47E-01	3.29E-04	2.47E-03	1.50E-02	1.23E-01
1967	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.09E-04	3.09E-03	7.57E-04	9.31E-03
1968	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.08E-04	3.00E-03	3.25E-04	1.93E-03
1969	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-04	2.37E-03	2.47E-04	1.49E-03
1970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	9.24E-05	9.90E-04	1.08E-04	9.27E-04
1971	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.52E-04	2.05E-03	1.61E-04	1.30E-03
1972	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.19E-05	5.07E-04	2.03E-05	3.23E-04
1973	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.20E-04	6.20E-05	0.00E+00
1984	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.40E-03	7.40E-04	0.00E+00	0.00E+00
1985	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-02	1.00E-03	0.00E+00	0.00E+00
1986	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	3.00E-04	0.00E+00	0.00E+00
1987	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.00E-04	4.00E-05	0.00E+00	0.00E+00
1988	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.00E-05	0.00E+00	0.00E+00
1989	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.20E-04	8.20E-05
1990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-04	3.00E-05
1991	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	4.40E-05
1992	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.70E-04	4.70E-05
1993	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.60E-04	5.60E-05
1994	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	4.20E-05
1995	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	1.20E-05
1996	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-04	2.40E-05
1997	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.20E-04	1.20E-05
1998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.00E-05
1999	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	2.10E-05
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.10E-04	5.10E-05
2001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.50E-04	1.50E-05

Table A-8. Source term data, particulate releases, Ci/yr.

Date	Sr90/Y90		B	B_SD	REDOX	R_SD	PUREX	P_SD
	T	T_SD						
1944	2.20E-02	1.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1945	3.84E+00	1.21E+00	3.55E+00	1.15E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1946	4.26E+00	1.24E+00	6.97E+00	1.77E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1947	3.70E+00	9.35E-01	4.19E+00	1.06E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1948	1.32E+00	5.64E-01	1.55E+00	6.66E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1949	4.36E-02	1.15E-02	3.54E-02	9.82E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1950	6.77E-02	1.75E-02	7.37E-02	1.91E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1951	1.06E-01	2.68E-02	9.79E-02	2.54E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1952	6.78E-02	1.97E-02	2.71E-02	1.25E-02	1.96E-01	5.42E-02	0.00E+00	0.00E+00
1953	5.01E-02	1.38E-02	0.00E+00	0.00E+00	3.26E-01	8.85E-02	0.00E+00	0.00E+00
1954	9.79E-02	2.53E-02	0.00E+00	0.00E+00	3.90E-01	1.05E-01	0.00E+00	0.00E+00
1955	1.21E-01	3.20E-02	0.00E+00	0.00E+00	4.48E-01	1.30E-01	0.00E+00	0.00E+00
1956	4.80E-03	3.00E-03	0.00E+00	0.00E+00	3.65E-01	1.04E-01	5.25E-01	1.57E-01
1957	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.04E-01	1.04E-01	9.75E-01	2.46E-01
1958	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.08E-01	8.65E-02	1.13E+00	3.01E-01
1959	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.69E-01	6.95E-02	1.39E+00	3.61E-01
1960	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.23E-01	6.27E-02	1.64E+00	4.40E-01
1961	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.96E-01	1.04E-01	1.59E+00	4.18E-01
1962	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.35E-01	1.24E-01	2.16E+00	5.78E-01
1963	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.50E-01	1.63E-01	1.92E+00	5.73E-01
1964	0.00E+00	0.00E+00	0.00E+00	0.00E+00	7.32E-01	2.09E-01	2.11E+00	6.17E-01
1965	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.99E-01	2.03E-01	2.02E+00	5.69E-01
1966	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.04E+00	4.08E-01	1.41E+00	4.73E-01
1967	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.12E+00	5.70E-01
1968	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.18E+00	5.79E-01
1969	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.74E+00	4.64E-01
1970	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.16E-01	1.99E-01
1971	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.09E+00	4.06E-01
1972	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.08E-01	7.73E-02
1973	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1974	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1975	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1976	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1977	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1978	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1979	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1980	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1981	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1982	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
1983	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.00E-03	3.00E-04
1984	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.30E-02	2.30E-03
1985	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	8.50E-03	8.50E-04
1986	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.10E-04	2.10E-05
1987	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.00E-05
1988	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.00E-04	1.00E-05
1989	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.60E-03	4.60E-04
1990	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.30E-03	5.30E-04
1991	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.40E-03	2.40E-04
1992	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.40E-04	4.40E-05
1993	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	3.70E-05
1994	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.00E-04	2.00E-05
1995	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.50E-04	2.50E-05
1996	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.50E-04	4.50E-05
1997	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.90E-04	5.90E-05
1998	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.70E-04	3.70E-05
1999	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	4.20E-04	4.20E-05
2000	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.30E-04	3.30E-05
2001	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.90E-04	2.90E-05

Table A-10. Atmospheric Dispersion Factors Bq-(sec/m³) per Bq Released

In the following tables, numerical identifiers are used as row and column headings. The row headers are the 38 receptor locations described in Table 4.1.3-1. The column headers represent the combination of source location and emission type, as:

1	T Plant particles
2	B Plant particles
3	REDOX particles
4	PUREX particles
5	Z Plant particles
6	T Plant iodine
7	B Plant iodine
8	REDOX iodine
9	PUREX iodine
10	B & C noble gas
11	KE & KW noble gas
12	N noble gas
13	D & DR noble gas
14	H noble gas
15	F noble gas

Table A-10. Atmospheric dispersion factors Bq-(sec/m³) per Bq released.
Node Averages

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	1.17E-07	1.80E-08	3.03E-08	1.44E-08	5.74E-08	1.18E-07	1.84E-08	3.07E-08	1.47E-08	1.53E-08	1.07E-08	7.17E-09	5.86E-09	4.65E-09	4.92E-09
2	2.46E-08	1.35E-07	1.80E-08	5.86E-08	2.03E-08	2.49E-08	1.35E-07	1.84E-08	5.91E-08	1.77E-08	1.17E-08	8.38E-09	6.99E-09	5.87E-09	6.52E-09
3	5.40E-08	1.36E-08	2.92E-07	1.17E-08	2.27E-07	5.46E-08	1.39E-08	2.93E-07	1.20E-08	1.26E-08	8.66E-09	5.78E-09	4.76E-09	3.81E-09	4.05E-09
4	2.35E-08	8.34E-08	1.82E-08	1.20E-07	1.99E-08	2.39E-08	8.39E-08	1.86E-08	1.20E-07	1.72E-08	1.13E-08	7.99E-09	6.90E-09	6.05E-09	6.92E-09
5	6.81E-08	1.46E-08	6.51E-08	1.20E-08	1.94E-07	6.86E-08	1.49E-08	6.55E-08	1.23E-08	1.40E-08	9.21E-09	6.28E-09	5.09E-09	4.11E-09	4.32E-09
6	1.42E-08	1.29E-08	1.04E-08	1.13E-08	1.13E-08	1.45E-08	1.33E-08	1.08E-08	1.17E-08	3.80E-07	1.84E-08	1.10E-08	8.84E-09	6.89E-09	7.04E-09
7	1.62E-08	1.77E-08	1.32E-08	1.75E-08	1.43E-08	1.66E-08	1.82E-08	1.36E-08	1.79E-08	3.13E-08	3.59E-07	2.64E-08	1.79E-08	1.24E-08	1.24E-08
8	1.67E-08	1.95E-08	1.46E-08	1.98E-08	1.51E-08	1.73E-08	2.01E-08	1.52E-08	2.03E-08	2.15E-08	2.64E-08	1.86E-07	4.92E-08	2.22E-08	2.21E-08
9	1.36E-08	1.56E-08	1.20E-08	1.56E-08	1.24E-08	1.41E-08	1.61E-08	1.25E-08	1.61E-08	1.74E-08	2.11E-08	4.43E-08	1.22E-07	3.08E-08	2.67E-08
10	1.21E-08	1.40E-08	1.07E-08	1.38E-08	1.11E-08	1.26E-08	1.44E-08	1.12E-08	1.42E-08	1.63E-08	2.12E-08	3.35E-08	4.88E-08	1.08E-07	3.46E-08
11	1.48E-08	1.67E-08	1.32E-08	1.63E-08	1.37E-08	1.53E-08	1.72E-08	1.37E-08	1.67E-08	1.97E-08	2.87E-08	4.02E-08	3.57E-08	2.63E-08	2.44E-07
12	2.13E-08	1.74E-08	1.44E-08	1.43E-08	1.66E-08	2.17E-08	1.77E-08	1.48E-08	1.46E-08	3.55E-08	1.79E-08	1.11E-08	8.63E-09	6.52E-09	6.96E-09
13	7.65E-09	6.78E-09	6.46E-09	6.24E-09	7.06E-09	7.89E-09	7.01E-09	6.68E-09	6.45E-09	1.76E-08	9.68E-09	6.50E-09	5.19E-09	3.98E-09	4.19E-09
14	1.13E-08	1.33E-08	9.64E-09	1.32E-08	1.02E-08	1.18E-08	1.37E-08	1.01E-08	1.36E-08	1.58E-08	1.97E-08	3.06E-08	2.84E-08	1.95E-08	1.71E-08
15	8.06E-09	9.34E-09	7.24E-09	9.20E-09	7.46E-09	8.40E-09	9.70E-09	7.58E-09	9.53E-09	1.15E-08	1.43E-08	2.08E-08	2.50E-08	3.54E-08	2.04E-08
16	9.18E-09	1.04E-08	8.05E-09	1.02E-08	8.43E-09	9.53E-09	1.07E-08	8.40E-09	1.05E-08	1.35E-08	1.93E-08	2.77E-08	3.37E-08	4.98E-08	2.50E-08
17	8.62E-09	5.76E-09	8.99E-09	5.22E-09	1.00E-08	8.84E-09	5.94E-09	9.21E-09	5.40E-09	9.76E-09	5.48E-09	3.99E-09	3.28E-09	2.60E-09	2.81E-09
18	1.44E-08	1.12E-08	1.82E-08	1.12E-08	1.62E-08	1.48E-08	1.15E-08	1.86E-08	1.15E-08	7.44E-09	5.60E-09	4.23E-09	3.88E-09	3.84E-09	4.72E-09
19	1.83E-08	2.22E-08	1.73E-08	2.32E-08	1.67E-08	1.88E-08	2.25E-08	1.77E-08	2.36E-08	1.32E-08	1.00E-08	7.18E-09	6.52E-09	6.39E-09	7.66E-09
20	6.87E-08	3.41E-08	2.89E-08	2.23E-08	3.33E-08	6.92E-08	3.46E-08	2.92E-08	2.27E-08	1.43E-08	1.01E-08	7.13E-09	5.95E-09	4.85E-09	5.27E-09
21	1.68E-08	1.81E-08	1.43E-08	1.89E-08	1.52E-08	1.73E-08	1.86E-08	1.48E-08	1.94E-08	2.67E-08	7.34E-08	2.82E-08	2.09E-08	1.42E-08	1.46E-08
22	5.53E-08	2.60E-08	2.66E-08	1.88E-08	3.16E-08	5.57E-08	2.65E-08	2.70E-08	1.92E-08	1.54E-08	1.09E-08	7.59E-09	6.22E-09	5.04E-09	5.39E-09
23	1.18E-08	8.79E-09	1.64E-08	8.79E-09	1.43E-08	1.21E-08	9.07E-09	1.68E-08	9.05E-09	6.01E-09	4.53E-09	3.49E-09	3.18E-09	3.13E-09	3.84E-09
24	8.96E-09	1.04E-08	9.14E-09	1.07E-08	8.78E-09	9.27E-09	1.08E-08	9.46E-09	1.11E-08	8.02E-09	7.46E-09	5.79E-09	5.44E-09	5.52E-09	7.13E-09
25	8.35E-09	1.01E-08	8.37E-09	1.06E-08	8.08E-09	8.64E-09	1.04E-08	8.67E-09	1.09E-08	8.23E-09	8.08E-09	6.47E-09	6.16E-09	6.33E-09	8.05E-09
26	1.01E-08	1.07E-08	1.08E-08	1.11E-08	1.01E-08	1.04E-08	1.10E-08	1.11E-08	1.14E-08	7.66E-09	6.43E-09	4.76E-09	4.35E-09	4.33E-09	5.65E-09
27	4.83E-09	3.71E-09	6.09E-09	3.63E-09	5.70E-09	5.02E-09	3.85E-09	6.30E-09	3.77E-09	3.10E-09	2.45E-09	2.00E-09	1.82E-09	1.72E-09	1.97E-09
28	1.22E-08	1.45E-08	1.15E-08	1.49E-08	1.16E-08	1.26E-08	1.49E-08	1.19E-08	1.53E-08	1.46E-08	2.18E-08	1.91E-08	1.56E-08	1.33E-08	2.06E-08
29	2.59E-08	2.42E-08	2.72E-08	2.44E-08	2.59E-08	2.64E-08	2.47E-08	2.78E-08	2.48E-08	1.25E-08	8.59E-09	6.29E-09	5.69E-09	5.48E-09	6.87E-09
30	1.16E-08	1.59E-08	1.10E-08	1.64E-08	1.08E-08	1.19E-08	1.62E-08	1.14E-08	1.68E-08	1.43E-08	1.44E-08	1.09E-08	1.02E-08	1.02E-08	1.26E-08
31	1.38E-08	1.38E-08	1.48E-08	1.39E-08	1.41E-08	1.42E-08	1.42E-08	1.52E-08	1.42E-08	9.64E-09	7.76E-09	5.86E-09	5.45E-09	5.40E-09	6.56E-09
32	2.01E-08	9.57E-09	1.56E-08	8.49E-09	2.26E-08	2.05E-08	9.84E-09	1.59E-08	8.73E-09	1.62E-08	8.56E-09	5.86E-09	4.88E-09	3.84E-09	4.11E-09
33	1.45E-08	7.60E-09	2.04E-08	6.84E-09	2.23E-08	1.48E-08	7.84E-09	2.07E-08	7.06E-09	9.03E-09	5.66E-09	3.99E-09	3.28E-09	2.64E-09	2.80E-09
34	1.97E-08	1.33E-08	3.29E-08	1.30E-08	2.52E-08	2.01E-08	1.37E-08	3.34E-08	1.33E-08	8.70E-09	6.23E-09	4.72E-09	4.09E-09	3.63E-09	4.22E-09
35	3.03E-08	9.06E-08	2.10E-08	1.91E-07	2.24E-08	3.07E-08	9.10E-08	2.13E-08	1.92E-07	1.50E-08	9.94E-09	7.33E-09	6.30E-09	5.64E-09	6.52E-09
36	1.49E-08	8.18E-09	2.29E-08	7.39E-09	2.64E-08	1.52E-08	8.42E-09	2.33E-08	7.61E-09	1.06E-08	6.48E-09	4.54E-09	3.74E-09	2.97E-09	3.15E-09
37	3.12E-08	7.41E-08	2.18E-08	1.25E-07	2.39E-08	3.15E-08	7.46E-08	2.22E-08	1.25E-07	1.44E-08	9.58E-09	7.07E-09	6.10E-09	5.30E-09	6.02E-09
38	1.17E-07	1.80E-08	3.03E-08	1.44E-08	5.74E-08	1.18E-07	1.84E-08	3.07E-08	1.47E-08	1.53E-08	1.07E-08	7.17E-09	5.86E-09	4.65E-09	4.92E-09

Table A-10. Atmospheric dispersion factors Bq-(sec/m³) per Bq released (Continued).

Node Standard Deviations

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1	4.56E-08	2.40E-09	4.81E-09	1.78E-09	8.48E-09	4.58E-08	2.50E-09	4.86E-09	1.83E-09	2.38E-09	1.40E-09	7.50E-10	6.57E-10	5.90E-10	5.83E-10
2	2.53E-09	3.04E-08	1.40E-09	6.99E-09	1.59E-09	2.60E-09	3.03E-08	1.38E-09	7.04E-09	3.88E-09	1.71E-09	8.27E-10	7.12E-10	5.67E-10	6.93E-10
3	1.03E-08	2.01E-09	3.79E-08	1.43E-09	2.40E-08	1.04E-08	2.03E-09	3.78E-08	1.45E-09	1.81E-09	1.21E-09	5.54E-10	4.96E-10	4.11E-10	4.17E-10
4	2.61E-09	1.73E-08	1.57E-09	2.76E-08	2.52E-09	2.62E-09	1.75E-08	1.58E-09	2.77E-08	3.85E-09	1.96E-09	8.56E-10	6.50E-10	5.98E-10	7.07E-10
5	1.67E-08	2.12E-09	9.23E-09	1.56E-09	3.77E-08	1.68E-08	2.14E-09	9.25E-09	1.59E-09	1.97E-09	1.12E-09	6.48E-10	5.15E-10	4.59E-10	4.81E-10
6	1.31E-09	1.43E-09	9.47E-10	1.08E-09	1.07E-09	1.31E-09	1.46E-09	9.49E-10	1.08E-09	4.64E-08	2.21E-09	1.01E-09	9.46E-10	7.16E-10	8.42E-10
7	1.23E-09	1.37E-09	1.37E-09	1.91E-09	1.43E-09	1.28E-09	1.40E-09	1.39E-09	1.96E-09	3.31E-09	1.35E-07	3.38E-09	1.93E-09	1.77E-09	1.48E-09
8	2.27E-09	2.19E-09	1.88E-09	2.09E-09	2.04E-09	2.31E-09	2.24E-09	1.93E-09	2.17E-09	2.51E-09	2.15E-09	9.19E-08	5.89E-09	3.01E-09	2.72E-09
9	1.79E-09	1.74E-09	1.51E-09	1.53E-09	1.63E-09	1.82E-09	1.79E-09	1.54E-09	1.60E-09	2.10E-09	2.07E-09	5.64E-09	4.56E-08	4.10E-09	2.75E-09
10	1.39E-09	1.46E-09	1.21E-09	1.39E-09	1.28E-09	1.41E-09	1.48E-09	1.21E-09	1.40E-09	1.72E-09	2.59E-09	2.99E-09	3.84E-09	3.64E-08	2.27E-09
11	1.88E-09	2.34E-09	1.64E-09	2.09E-09	1.73E-09	1.92E-09	2.35E-09	1.64E-09	2.13E-09	2.88E-09	5.04E-09	4.18E-09	4.10E-09	2.48E-09	5.83E-08
12	2.13E-09	9.54E-10	1.32E-09	1.31E-09	2.31E-09	2.15E-09	9.68E-10	1.34E-09	1.32E-09	8.05E-09	1.98E-09	1.20E-09	9.00E-10	7.73E-10	7.34E-10
13	7.38E-10	6.61E-10	6.07E-10	5.91E-10	5.47E-10	7.73E-10	6.88E-10	6.33E-10	6.13E-10	1.71E-09	1.03E-09	6.01E-10	4.91E-10	4.01E-10	4.44E-10
14	1.21E-09	1.50E-09	9.81E-10	1.48E-09	1.08E-09	1.22E-09	1.55E-09	1.02E-09	1.53E-09	1.66E-09	2.16E-09	3.41E-09	3.62E-09	2.60E-09	2.25E-09
15	8.95E-10	9.56E-10	8.20E-10	8.91E-10	8.75E-10	9.04E-10	9.71E-10	8.33E-10	9.03E-10	1.41E-09	1.77E-09	2.67E-09	2.55E-09	4.18E-09	1.41E-09
16	1.18E-09	1.32E-09	9.77E-10	1.22E-09	1.03E-09	1.19E-09	1.34E-09	9.86E-10	1.24E-09	2.19E-09	3.24E-09	1.95E-09	2.70E-09	2.52E-09	1.90E-09
17	6.55E-10	4.19E-10	8.49E-10	4.48E-10	8.52E-10	6.85E-10	4.35E-10	8.61E-10	4.60E-10	1.17E-09	5.76E-10	3.99E-10	3.65E-10	2.58E-10	3.00E-10
18	1.71E-09	1.30E-09	1.85E-09	1.22E-09	1.71E-09	1.77E-09	1.34E-09	1.91E-09	1.26E-09	1.29E-09	8.61E-10	5.56E-10	5.28E-10	4.99E-10	4.80E-10
19	9.43E-10	2.35E-09	1.19E-09	2.70E-09	1.20E-09	9.53E-10	2.37E-09	1.26E-09	2.75E-09	2.19E-09	1.97E-09	8.45E-10	7.50E-10	6.49E-10	7.60E-10
20	7.57E-09	5.60E-09	3.17E-09	2.30E-09	3.64E-09	7.63E-09	5.67E-09	3.22E-09	2.37E-09	1.96E-09	1.38E-09	6.71E-10	6.05E-10	5.87E-10	5.74E-10
21	2.44E-09	3.20E-09	1.89E-09	2.83E-09	1.95E-09	2.50E-09	3.23E-09	1.94E-09	2.87E-09	3.51E-09	1.27E-08	2.82E-09	1.91E-09	1.72E-09	1.65E-09
22	1.37E-08	3.53E-09	2.90E-09	2.26E-09	4.54E-09	1.37E-08	3.62E-09	2.88E-09	2.31E-09	2.30E-09	1.30E-09	7.43E-10	6.98E-10	5.86E-10	6.39E-10
23	9.69E-10	8.85E-10	1.50E-09	8.68E-10	1.08E-09	9.85E-10	9.39E-10	1.56E-09	9.09E-10	9.14E-10	5.88E-10	4.47E-10	4.21E-10	4.13E-10	4.38E-10
24	8.76E-10	1.08E-09	9.15E-10	1.05E-09	7.95E-10	9.12E-10	1.15E-09	9.36E-10	1.10E-09	9.87E-10	1.33E-09	7.23E-10	5.78E-10	5.67E-10	7.50E-10
25	6.87E-10	9.11E-10	6.56E-10	8.74E-10	5.50E-10	7.12E-10	9.48E-10	6.74E-10	9.07E-10	9.14E-10	1.41E-09	7.94E-10	6.15E-10	6.13E-10	9.00E-10
26	1.06E-09	1.35E-09	1.11E-09	1.33E-09	1.03E-09	1.10E-09	1.41E-09	1.17E-09	1.40E-09	1.22E-09	1.23E-09	5.87E-10	4.75E-10	4.72E-10	5.87E-10
27	3.42E-10	2.50E-10	5.62E-10	2.47E-10	4.83E-10	3.63E-10	2.66E-10	5.83E-10	2.74E-10	2.93E-10	2.46E-10	2.15E-10	2.01E-10	1.94E-10	1.78E-10
28	1.22E-09	1.35E-09	1.03E-09	1.36E-09	1.18E-09	1.24E-09	1.38E-09	1.06E-09	1.35E-09	1.87E-09	3.06E-09	1.34E-09	1.06E-09	8.62E-10	2.33E-09
29	2.60E-09	3.94E-09	2.25E-09	4.08E-09	1.92E-09	2.67E-09	4.02E-09	2.28E-09	4.14E-09	2.61E-09	1.60E-09	7.93E-10	6.77E-10	5.40E-10	6.33E-10
30	8.33E-10	1.38E-09	7.45E-10	1.25E-09	8.16E-10	8.53E-10	1.37E-09	7.55E-10	1.25E-09	7.26E-10	1.80E-09	1.05E-09	8.55E-10	7.09E-10	7.90E-10
31	1.38E-09	1.62E-09	1.00E-09	1.67E-09	8.93E-10	1.44E-09	1.66E-09	1.05E-09	1.71E-09	1.63E-09	1.26E-09	6.38E-10	6.36E-10	5.60E-10	5.70E-10
32	1.86E-09	5.11E-10	2.09E-09	4.04E-10	2.96E-09	1.88E-09	5.45E-10	2.11E-09	4.09E-10	1.71E-09	9.12E-10	6.30E-10	5.49E-10	3.87E-10	4.75E-10
33	2.10E-09	1.03E-09	2.74E-09	8.49E-10	2.95E-09	2.18E-09	1.06E-09	2.81E-09	8.78E-10	8.41E-10	7.49E-10	4.33E-10	3.38E-10	3.00E-10	3.09E-10
34	1.96E-09	1.03E-09	3.56E-09	1.14E-09	2.45E-09	2.06E-09	1.11E-09	3.70E-09	1.22E-09	1.11E-09	7.46E-10	4.72E-10	3.60E-10	3.25E-10	3.46E-10
35	4.55E-09	7.64E-09	1.32E-09	1.85E-08	2.09E-09	4.55E-09	7.56E-09	1.34E-09	1.85E-08	2.91E-09	1.53E-09	6.83E-10	5.49E-10	5.62E-10	6.28E-10
36	2.19E-09	8.72E-10	2.47E-09	8.44E-10	4.32E-09	2.25E-09	9.11E-10	2.57E-09	8.79E-10	1.21E-09	8.34E-10	5.18E-10	4.17E-10	3.46E-10	3.63E-10
37	3.76E-09	9.30E-09	2.01E-09	1.75E-08	2.88E-09	3.77E-09	9.39E-09	2.02E-09	1.77E-08	3.11E-09	1.28E-09	6.13E-10	6.04E-10	5.23E-10	5.70E-10
38	4.56E-08	2.40E-09	4.81E-09	1.78E-09	8.48E-09	4.58E-08	2.50E-09	4.86E-09	1.83E-09	2.38E-09	1.40E-09	7.50E-10	6.57E-10	5.90E-10	5.83E-10

Table A-11. Ar-41 Submersion Gamma Dose, Sv.

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	5.29E-08	1.65	6.089E-08	1.68	4.35E-08	1.65	5.92E-08	1.68	4.82E-08	1.65
1945	3.50E-07	1.23	4.164E-07	1.25	2.87E-07	1.23	4.13E-07	1.25	3.14E-07	1.23
1946	1.99E-07	1.25	2.442E-07	1.24	1.63E-07	1.24	2.47E-07	1.24	1.76E-07	1.25
1947	1.47E-07	1.24	1.845E-07	1.23	1.20E-07	1.24	1.89E-07	1.23	1.29E-07	1.24
1948	2.51E-07	1.24	3.044E-07	1.25	2.06E-07	1.24	3.05E-07	1.24	2.23E-07	1.24
1949	4.18E-07	1.22	5.025E-07	1.23	3.43E-07	1.21	5.02E-07	1.23	3.74E-07	1.21
1950	6.21E-07	1.19	7.626E-07	1.19	5.12E-07	1.18	7.69E-07	1.19	5.56E-07	1.18
1951	6.83E-07	1.17	8.364E-07	1.18	5.61E-07	1.17	8.43E-07	1.18	6.09E-07	1.17
1952	7.93E-07	1.19	9.594E-07	1.20	6.52E-07	1.19	9.59E-07	1.20	7.07E-07	1.19
1953	1.34E-06	1.21	1.587E-06	1.23	1.10E-06	1.20	1.57E-06	1.23	1.21E-06	1.20
1954	1.34E-06	1.21	1.587E-06	1.23	1.10E-06	1.20	1.57E-06	1.23	1.21E-06	1.20
1955	2.10E-06	1.16	2.417E-06	1.18	1.71E-06	1.16	2.37E-06	1.18	1.86E-06	1.16
1956	2.26E-06	1.16	2.589E-06	1.17	1.85E-06	1.16	2.54E-06	1.18	2.00E-06	1.16
1957	2.27E-06	1.16	2.601E-06	1.18	1.85E-06	1.16	2.55E-06	1.18	2.00E-06	1.16
1958	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1959	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1960	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1961	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1962	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1963	2.29E-06	1.16	2.632E-06	1.17	1.88E-06	1.16	2.58E-06	1.18	2.03E-06	1.16
1964	2.78E-06	1.13	3.204E-06	1.14	2.27E-06	1.13	3.12E-06	1.15	2.46E-06	1.13
1965	2.50E-06	1.15	2.847E-06	1.16	2.04E-06	1.15	2.76E-06	1.16	2.21E-06	1.14
1966	2.38E-06	1.15	2.700E-06	1.17	1.94E-06	1.15	2.61E-06	1.17	2.10E-06	1.15
1967	2.34E-06	1.15	2.651E-06	1.17	1.91E-06	1.15	2.56E-06	1.18	2.07E-06	1.15
1968	2.12E-06	1.16	2.399E-06	1.18	1.73E-06	1.16	2.31E-06	1.18	1.87E-06	1.16
1969	1.64E-06	1.17	1.845E-06	1.18	1.33E-06	1.17	1.78E-06	1.19	1.43E-06	1.17
1970	9.96E-07	1.19	1.132E-06	1.19	8.06E-07	1.19	1.08E-06	1.20	8.67E-07	1.18
1971	5.19E-07	1.17	6.039E-07	1.16	4.19E-07	1.16	5.76E-07	1.17	4.54E-07	1.16
1972	3.68E-07	1.16	4.311E-07	1.15	2.98E-07	1.15	4.11E-07	1.16	3.23E-07	1.15
1973	3.68E-07	1.16	4.311E-07	1.15	2.98E-07	1.15	4.11E-07	1.16	3.23E-07	1.15
1974	1.85E-07	1.16	2.153E-07	1.15	1.49E-07	1.15	2.05E-07	1.16	1.62E-07	1.15
1975	1.14E-07	1.16	1.335E-07	1.15	9.16E-08	1.15	1.27E-07	1.16	9.96E-08	1.15
1976	1.30E-07	1.16	1.525E-07	1.15	1.05E-07	1.15	1.45E-07	1.16	1.14E-07	1.15
1977	4.83E-07	1.16	5.646E-07	1.15	3.90E-07	1.15	5.38E-07	1.16	4.23E-07	1.15
1978	4.05E-07	1.16	4.742E-07	1.15	3.27E-07	1.15	4.52E-07	1.16	3.55E-07	1.15
1979	3.17E-07	1.16	3.708E-07	1.15	2.56E-07	1.15	3.53E-07	1.16	2.78E-07	1.15
1980	8.49E-08	1.16	9.902E-08	1.15	6.83E-08	1.15	9.47E-08	1.16	7.44E-08	1.15
1981	2.40E-07	1.16	2.804E-07	1.15	1.93E-07	1.15	2.67E-07	1.16	2.10E-07	1.15
1982	4.20E-07	1.16	4.914E-07	1.15	3.39E-07	1.15	4.68E-07	1.16	3.68E-07	1.15
1983	4.46E-07	1.16	5.215E-07	1.15	3.60E-07	1.15	4.97E-07	1.16	3.91E-07	1.15
1984	2.84E-07	1.16	3.321E-07	1.15	2.29E-07	1.15	3.16E-07	1.16	2.48E-07	1.15
1985	2.55E-07	1.16	2.977E-07	1.15	2.05E-07	1.15	2.84E-07	1.16	2.23E-07	1.15
1986	4.42E-07	1.16	5.172E-07	1.15	3.57E-07	1.15	4.93E-07	1.16	3.87E-07	1.15
1987	1.66E-08	1.16	1.937E-08	1.15	1.34E-08	1.15	1.85E-08	1.16	1.45E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.156E-06	1.71	1.16E-07	1.61	1.16E-07	1.66	1.59E-07	2.01	9.840E-08	1.70
1945	5.277E-06	1.34	8.30E-07	1.21	1.24E-06	1.21	2.15E-06	1.42	1.328E-06	1.20
1946	1.384E-06	1.60	5.20E-07	1.23	1.05E-06	1.24	1.99E-06	1.45	1.199E-06	1.22
1947	2.165E-07	1.24	4.13E-07	1.24	9.72E-07	1.26	1.93E-06	1.47	1.138E-06	1.23
1948	2.675E-06	1.45	6.27E-07	1.22	1.12E-06	1.23	2.06E-06	1.44	1.255E-06	1.21
1949	5.381E-06	1.33	1.01E-06	1.20	1.56E-06	1.21	2.60E-06	1.36	2.663E-06	1.42
1950	5.695E-06	1.31	1.56E-06	1.18	2.61E-06	1.19	4.26E-06	1.28	6.888E-06	1.41
1951	5.793E-06	1.31	1.75E-06	1.17	3.13E-06	1.17	5.47E-06	1.31	7.442E-06	1.38
1952	8.426E-06	1.34	1.97E-06	1.18	3.28E-06	1.17	5.60E-06	1.30	7.565E-06	1.38
1953	2.196E-05	1.28	3.10E-06	1.18	4.07E-06	1.15	6.27E-06	1.27	8.180E-06	1.35
1954	2.196E-05	1.28	3.10E-06	1.18	4.07E-06	1.15	6.27E-06	1.27	8.180E-06	1.35
1955	2.331E-05	1.26	2.65E-05	1.47	5.93E-06	1.13	7.75E-06	1.22	9.717E-06	1.30
1956	2.276E-05	1.26	3.27E-05	1.46	6.40E-06	1.13	8.12E-06	1.22	1.009E-05	1.29
1957	2.362E-05	1.26	3.27E-05	1.46	6.27E-06	1.13	7.87E-06	1.21	9.594E-06	1.28
1958	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1959	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1960	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1961	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1962	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1963	2.362E-05	1.26	3.28E-05	1.46	6.40E-06	1.13	8.18E-06	1.21	1.015E-05	1.28
1964	2.442E-05	1.25	3.47E-05	1.44	1.80E-05	1.39	1.12E-05	1.16	1.242E-05	1.23
1965	2.399E-05	1.25	3.38E-05	1.45	1.64E-05	1.43	8.24E-06	1.14	7.811E-06	1.18
1966	2.380E-05	1.26	3.35E-05	1.45	1.57E-05	1.44	7.50E-06	1.15	5.744E-06	1.11
1967	2.374E-05	1.26	3.34E-05	1.45	1.54E-05	1.45	6.70E-06	1.13	5.406E-06	1.12
1968	1.925E-05	1.29	3.29E-05	1.46	1.48E-05	1.47	5.64E-06	1.13	4.877E-06	1.13
1969	7.503E-06	1.41	3.19E-05	1.48	1.40E-05	1.50	5.09E-06	1.14	4.360E-06	1.13
1970	1.630E-06	1.19	1.80E-05	1.51	1.26E-05	1.55	4.00E-06	1.15	3.284E-06	1.14
1971	8.057E-07	1.16	2.84E-06	1.59	1.13E-05	1.61	3.03E-06	1.17	2.325E-06	1.14
1972	5.664E-07	1.15	1.35E-06	1.18	8.61E-06	1.61	2.27E-06	1.18	1.722E-06	1.14
1973	5.664E-07	1.15	1.35E-06	1.18	8.61E-06	1.61	2.27E-06	1.18	1.722E-06	1.14
1974	2.829E-07	1.15	6.77E-07	1.18	4.31E-06	1.61	1.14E-06	1.18	8.610E-07	1.14
1975	1.753E-07	1.15	4.18E-07	1.18	2.66E-06	1.61	7.01E-07	1.18	5.332E-07	1.14
1976	2.005E-07	1.15	4.79E-07	1.18	3.05E-06	1.61	8.06E-07	1.18	6.107E-07	1.14
1977	7.442E-07	1.15	1.77E-06	1.18	1.13E-05	1.61	2.98E-06	1.18	2.257E-06	1.14
1978	6.212E-07	1.15	1.49E-06	1.18	9.47E-06	1.61	2.50E-06	1.18	1.900E-06	1.14
1979	4.871E-07	1.15	1.16E-06	1.18	7.44E-06	1.61	1.96E-06	1.18	1.482E-06	1.14
1980	1.304E-07	1.15	3.11E-07	1.18	1.98E-06	1.61	5.23E-07	1.18	3.967E-07	1.14
1981	3.678E-07	1.15	8.79E-07	1.18	5.60E-06	1.61	1.48E-06	1.18	1.119E-06	1.14
1982	6.458E-07	1.15	1.54E-06	1.18	9.84E-06	1.61	2.59E-06	1.18	1.968E-06	1.14
1983	6.827E-07	1.15	1.64E-06	1.18	1.05E-05	1.61	2.75E-06	1.18	2.085E-06	1.14
1984	4.360E-07	1.15	1.04E-06	1.18	6.64E-06	1.61	1.75E-06	1.18	1.328E-06	1.14
1985	3.905E-07	1.15	9.35E-07	1.18	5.95E-06	1.61	1.57E-06	1.18	1.193E-06	1.14
1986	6.765E-07	1.15	1.62E-06	1.18	1.03E-05	1.61	2.72E-06	1.18	2.073E-06	1.14
1987	2.546E-08	1.15	6.09E-08	1.18	3.88E-07	1.61	1.02E-07	1.18	7.749E-08	1.14
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	9.78E-08	1.63	1.16E-07	1.71	5.94E-08	1.64	7.811E-08	1.63	6.09E-08	1.65
1945	3.70E-06	1.36	6.83E-07	1.30	3.63E-07	1.23	8.180E-07	1.20	7.56E-07	1.20
1946	3.77E-06	1.37	3.30E-07	1.29	1.87E-07	1.26	6.765E-07	1.24	6.58E-07	1.22
1947	3.70E-06	1.38	2.13E-07	1.24	1.28E-07	1.23	6.212E-07	1.25	6.21E-07	1.23
1948	3.84E-06	1.36	4.49E-07	1.30	2.47E-07	1.25	7.319E-07	1.22	7.01E-07	1.21
1949	4.35E-06	1.33	7.75E-07	1.27	4.21E-07	1.21	1.095E-06	1.22	1.23E-06	1.27
1950	5.55E-06	1.26	1.07E-06	1.22	5.98E-07	1.18	1.962E-06	1.20	2.71E-06	1.24
1951	5.93E-06	1.25	1.16E-06	1.20	6.52E-07	1.17	2.263E-06	1.18	2.98E-06	1.22
1952	6.08E-06	1.24	1.41E-06	1.24	7.75E-07	1.19	2.380E-06	1.18	3.06E-06	1.21
1953	6.83E-06	1.22	2.66E-06	1.27	1.41E-06	1.20	2.952E-06	1.16	3.49E-06	1.19
1954	6.83E-06	1.22	2.66E-06	1.27	1.41E-06	1.20	2.952E-06	1.16	3.49E-06	1.19
1955	8.86E-06	1.18	3.93E-06	1.20	2.09E-06	1.16	4.342E-06	1.14	4.50E-06	1.16
1956	9.35E-06	1.18	4.19E-06	1.19	2.23E-06	1.15	4.674E-06	1.14	4.74E-06	1.16
1957	9.23E-06	1.18	4.23E-06	1.19	2.25E-06	1.15	4.588E-06	1.14	4.58E-06	1.16
1958	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1959	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1960	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1961	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1962	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1963	9.41E-06	1.18	4.27E-06	1.19	2.28E-06	1.15	4.711E-06	1.13	4.77E-06	1.16
1964	1.21E-05	1.14	5.02E-06	1.16	2.72E-06	1.13	6.765E-06	1.10	6.15E-06	1.13
1965	8.98E-06	1.14	4.62E-06	1.18	2.47E-06	1.14	5.572E-06	1.11	4.43E-06	1.13
1966	6.89E-06	1.13	4.45E-06	1.18	2.37E-06	1.14	5.105E-06	1.12	3.67E-06	1.12
1967	6.64E-06	1.14	4.39E-06	1.19	2.33E-06	1.15	4.908E-06	1.12	3.49E-06	1.13
1968	6.13E-06	1.14	3.92E-06	1.19	2.09E-06	1.16	4.520E-06	1.13	3.19E-06	1.14
1969	5.51E-06	1.15	2.83E-06	1.18	1.54E-06	1.17	4.028E-06	1.14	2.82E-06	1.15
1970	4.09E-06	1.16	1.61E-06	1.19	9.04E-07	1.18	3.014E-06	1.15	2.09E-06	1.16
1971	2.80E-06	1.15	8.06E-07	1.17	4.71E-07	1.16	2.116E-06	1.16	1.44E-06	1.17
1972	2.07E-06	1.15	5.71E-07	1.16	3.35E-07	1.15	1.574E-06	1.16	1.06E-06	1.18
1973	2.07E-06	1.15	5.71E-07	1.16	3.35E-07	1.15	1.574E-06	1.16	1.06E-06	1.18
1974	1.03E-06	1.15	2.85E-07	1.16	1.67E-07	1.15	7.872E-07	1.16	5.33E-07	1.18
1975	6.40E-07	1.15	1.77E-07	1.16	1.03E-07	1.15	4.859E-07	1.16	3.30E-07	1.18
1976	7.32E-07	1.15	2.02E-07	1.16	1.19E-07	1.15	5.566E-07	1.16	3.78E-07	1.18
1977	2.71E-06	1.15	7.50E-07	1.16	4.38E-07	1.15	2.060E-06	1.16	1.40E-06	1.18
1978	2.28E-06	1.15	6.27E-07	1.16	3.68E-07	1.15	1.728E-06	1.16	1.17E-06	1.18
1979	1.78E-06	1.15	4.91E-07	1.16	2.88E-07	1.15	1.353E-06	1.16	9.16E-07	1.18
1980	4.75E-07	1.15	1.31E-07	1.16	7.69E-08	1.15	3.616E-07	1.16	2.45E-07	1.18
1981	1.34E-06	1.15	3.71E-07	1.16	2.18E-07	1.15	1.021E-06	1.16	6.95E-07	1.18
1982	2.36E-06	1.15	6.52E-07	1.16	3.81E-07	1.15	1.790E-06	1.16	1.22E-06	1.18
1983	2.50E-06	1.15	6.89E-07	1.16	4.05E-07	1.15	1.900E-06	1.16	1.29E-06	1.18
1984	1.59E-06	1.15	4.39E-07	1.16	2.58E-07	1.15	1.212E-06	1.16	8.24E-07	1.18
1985	1.43E-06	1.15	3.94E-07	1.16	2.31E-07	1.15	1.082E-06	1.16	7.38E-07	1.18
1986	2.48E-06	1.15	6.83E-07	1.16	4.02E-07	1.15	1.888E-06	1.16	1.28E-06	1.18
1987	9.29E-08	1.15	2.56E-08	1.16	1.51E-08	1.15	7.073E-08	1.16	4.80E-08	1.18
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	7.56E-08	1.67	3.33E-08	1.64	2.688E-08	1.64	4.73E-08	1.64	5.01E-08	1.64
1945	9.59E-07	1.20	2.13E-07	1.23	2.140E-07	1.22	3.65E-07	1.22	3.43E-07	1.22
1946	8.49E-07	1.22	1.16E-07	1.25	1.427E-07	1.23	2.39E-07	1.23	2.02E-07	1.24
1947	8.00E-07	1.23	8.30E-08	1.24	1.175E-07	1.24	1.93E-07	1.24	1.53E-07	1.24
1948	8.98E-07	1.21	1.49E-07	1.24	1.685E-07	1.22	2.84E-07	1.22	2.50E-07	1.23
1949	1.62E-06	1.28	2.51E-07	1.21	2.700E-07	1.21	4.59E-07	1.21	4.13E-07	1.21
1950	3.71E-06	1.23	3.67E-07	1.18	4.360E-07	1.19	7.38E-07	1.18	6.27E-07	1.18
1951	4.07E-06	1.21	4.01E-07	1.17	4.766E-07	1.18	8.06E-07	1.17	6.89E-07	1.17
1952	4.17E-06	1.21	4.70E-07	1.19	5.301E-07	1.18	8.98E-07	1.18	7.93E-07	1.18
1953	4.66E-06	1.19	8.18E-07	1.20	7.995E-07	1.19	1.37E-06	1.19	1.30E-06	1.19
1954	4.66E-06	1.19	8.18E-07	1.20	7.995E-07	1.19	1.37E-06	1.19	1.30E-06	1.19
1955	6.03E-06	1.16	1.21E-06	1.16	1.193E-06	1.16	2.07E-06	1.17	2.02E-06	1.16
1956	6.33E-06	1.16	1.29E-06	1.15	1.279E-06	1.16	2.23E-06	1.17	2.17E-06	1.16
1957	6.13E-06	1.16	1.29E-06	1.15	1.273E-06	1.16	2.22E-06	1.17	2.18E-06	1.16
1958	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1959	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1960	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1961	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1962	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1963	6.40E-06	1.16	1.31E-06	1.15	1.298E-06	1.16	2.26E-06	1.16	2.20E-06	1.15
1964	8.30E-06	1.12	1.58E-06	1.13	1.581E-06	1.13	2.75E-06	1.14	2.69E-06	1.13
1965	5.86E-06	1.13	1.42E-06	1.14	1.359E-06	1.15	2.37E-06	1.15	2.39E-06	1.14
1966	4.82E-06	1.12	1.35E-06	1.14	1.255E-06	1.15	2.21E-06	1.16	2.27E-06	1.15
1967	4.58E-06	1.13	1.33E-06	1.15	1.230E-06	1.16	2.16E-06	1.17	2.23E-06	1.15
1968	4.18E-06	1.14	1.19E-06	1.16	1.113E-06	1.17	1.96E-06	1.18	2.02E-06	1.16
1969	3.76E-06	1.15	8.92E-07	1.16	8.856E-07	1.18	1.55E-06	1.19	1.57E-06	1.17
1970	2.80E-06	1.14	5.34E-07	1.17	5.541E-07	1.19	9.66E-07	1.20	9.66E-07	1.18
1971	1.93E-06	1.13	2.87E-07	1.16	3.026E-07	1.18	5.17E-07	1.17	5.15E-07	1.16
1972	1.43E-06	1.13	2.05E-07	1.15	2.171E-07	1.18	3.68E-07	1.17	3.67E-07	1.15
1973	1.43E-06	1.13	2.05E-07	1.15	2.171E-07	1.18	3.68E-07	1.17	3.67E-07	1.15
1974	7.13E-07	1.13	1.03E-07	1.15	1.082E-07	1.18	1.85E-07	1.17	1.83E-07	1.15
1975	4.42E-07	1.13	6.33E-08	1.15	6.704E-08	1.18	1.14E-07	1.17	1.13E-07	1.15
1976	5.06E-07	1.13	7.26E-08	1.15	7.688E-08	1.18	1.30E-07	1.17	1.30E-07	1.15
1977	1.87E-06	1.13	2.69E-07	1.15	2.841E-07	1.18	4.83E-07	1.17	4.81E-07	1.15
1978	1.57E-06	1.13	2.26E-07	1.15	2.386E-07	1.18	4.05E-07	1.17	4.03E-07	1.15
1979	1.23E-06	1.13	1.77E-07	1.15	1.863E-07	1.18	3.17E-07	1.17	3.15E-07	1.15
1980	3.28E-07	1.13	4.72E-08	1.15	4.988E-08	1.18	8.49E-08	1.17	8.43E-08	1.15
1981	9.29E-07	1.13	1.33E-07	1.15	1.408E-07	1.18	2.40E-07	1.17	2.39E-07	1.15
1982	1.63E-06	1.13	2.34E-07	1.15	2.472E-07	1.18	4.20E-07	1.17	4.18E-07	1.15
1983	1.73E-06	1.13	2.48E-07	1.15	2.626E-07	1.18	4.46E-07	1.17	4.44E-07	1.15
1984	1.10E-06	1.13	1.58E-07	1.15	1.667E-07	1.18	2.84E-07	1.17	2.82E-07	1.15
1985	9.84E-07	1.13	1.41E-07	1.15	1.494E-07	1.18	2.55E-07	1.17	2.53E-07	1.15
1986	1.72E-06	1.13	2.46E-07	1.15	2.601E-07	1.18	4.42E-07	1.17	4.40E-07	1.15
1987	6.46E-08	1.13	9.23E-09	1.15	9.779E-09	1.18	1.66E-08	1.17	1.65E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.05E-07	1.61	5.37E-08	1.65	2.18E-08	1.63	3.05E-08	1.61	3.20E-08	1.61
1945	8.36E-07	1.20	3.62E-07	1.23	1.74E-07	1.21	2.74E-07	1.20	2.98E-07	1.19
1946	5.76E-07	1.22	2.10E-07	1.24	1.16E-07	1.23	1.99E-07	1.22	2.22E-07	1.22
1947	4.84E-07	1.24	1.58E-07	1.24	9.59E-08	1.24	1.72E-07	1.24	1.94E-07	1.24
1948	6.70E-07	1.21	2.63E-07	1.24	1.37E-07	1.22	2.27E-07	1.21	2.51E-07	1.21
1949	1.04E-06	1.20	4.35E-07	1.21	2.20E-07	1.21	3.55E-07	1.20	3.91E-07	1.20
1950	1.68E-06	1.18	6.58E-07	1.18	3.55E-07	1.19	5.93E-07	1.19	6.64E-07	1.19
1951	1.89E-06	1.17	7.26E-07	1.17	3.88E-07	1.18	6.52E-07	1.17	7.26E-07	1.17
1952	2.08E-06	1.17	8.30E-07	1.19	4.31E-07	1.18	7.07E-07	1.17	7.87E-07	1.17
1953	3.05E-06	1.17	1.38E-06	1.20	6.46E-07	1.18	9.96E-07	1.17	1.08E-06	1.16
1954	3.05E-06	1.17	1.38E-06	1.20	6.46E-07	1.18	9.96E-07	1.17	1.08E-06	1.16
1955	8.12E-06	1.21	2.15E-06	1.16	9.66E-07	1.15	1.52E-06	1.15	1.65E-06	1.15
1956	9.41E-06	1.21	2.32E-06	1.16	1.04E-06	1.15	1.64E-06	1.15	1.78E-06	1.15
1957	9.41E-06	1.21	2.32E-06	1.16	1.03E-06	1.15	1.63E-06	1.15	1.77E-06	1.15
1958	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1959	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1960	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1961	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1962	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1963	9.47E-06	1.20	2.36E-06	1.15	1.05E-06	1.15	1.66E-06	1.15	1.80E-06	1.15
1964	1.14E-05	1.17	2.87E-06	1.13	1.29E-06	1.12	2.05E-06	1.13	2.24E-06	1.12
1965	1.05E-05	1.18	2.56E-06	1.14	1.11E-06	1.14	1.73E-06	1.14	1.88E-06	1.14
1966	1.01E-05	1.19	2.44E-06	1.15	1.02E-06	1.15	1.58E-06	1.15	1.70E-06	1.15
1967	1.00E-05	1.19	2.39E-06	1.15	1.00E-06	1.15	1.54E-06	1.15	1.66E-06	1.15
1968	9.53E-06	1.20	2.17E-06	1.16	9.10E-07	1.16	1.41E-06	1.17	1.52E-06	1.16
1969	8.67E-06	1.22	1.69E-06	1.17	7.20E-07	1.17	1.16E-06	1.18	1.26E-06	1.18
1970	5.41E-06	1.24	1.04E-06	1.18	4.53E-07	1.18	7.50E-07	1.19	8.24E-07	1.19
1971	2.15E-06	1.19	5.48E-07	1.16	2.50E-07	1.18	4.14E-07	1.18	4.62E-07	1.18
1972	1.45E-06	1.15	3.91E-07	1.15	1.79E-07	1.18	2.97E-07	1.17	3.32E-07	1.17
1973	1.45E-06	1.15	3.91E-07	1.15	1.79E-07	1.18	2.97E-07	1.17	3.32E-07	1.17
1974	7.26E-07	1.15	1.95E-07	1.15	8.92E-08	1.18	1.48E-07	1.17	1.66E-07	1.17
1975	4.48E-07	1.15	1.21E-07	1.15	5.53E-08	1.18	9.16E-08	1.17	1.03E-07	1.17
1976	5.14E-07	1.15	1.38E-07	1.15	6.33E-08	1.18	1.05E-07	1.17	1.17E-07	1.17
1977	1.90E-06	1.15	5.12E-07	1.15	2.34E-07	1.18	3.89E-07	1.17	4.35E-07	1.17
1978	1.59E-06	1.15	4.29E-07	1.15	1.97E-07	1.18	3.27E-07	1.17	3.65E-07	1.17
1979	1.25E-06	1.15	3.36E-07	1.15	1.54E-07	1.18	2.55E-07	1.17	2.85E-07	1.17
1980	3.33E-07	1.15	8.98E-08	1.15	4.11E-08	1.18	6.83E-08	1.17	7.63E-08	1.17
1981	9.41E-07	1.15	2.54E-07	1.15	1.16E-07	1.18	1.93E-07	1.17	2.16E-07	1.17
1982	1.65E-06	1.15	4.45E-07	1.15	2.04E-07	1.18	3.39E-07	1.17	3.78E-07	1.17
1983	1.75E-06	1.15	4.72E-07	1.15	2.16E-07	1.18	3.59E-07	1.17	4.02E-07	1.17
1984	1.12E-06	1.15	3.01E-07	1.15	1.38E-07	1.18	2.29E-07	1.17	2.56E-07	1.17
1985	1.00E-06	1.15	2.69E-07	1.15	1.24E-07	1.18	2.05E-07	1.17	2.29E-07	1.17
1986	1.74E-06	1.15	4.69E-07	1.15	2.15E-07	1.18	3.57E-07	1.17	3.99E-07	1.17
1987	6.52E-08	1.15	1.76E-08	1.15	8.06E-09	1.18	1.33E-08	1.17	1.49E-08	1.17
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	2.811E-08	1.63	1.15E-08	1.61	6.15E-08	1.60	4.40E-08	1.67	5.523E-08	1.60
1945	2.349E-07	1.21	9.23E-08	1.20	6.70E-07	1.19	3.34E-07	1.23	4.951E-07	1.18
1946	1.630E-07	1.22	6.21E-08	1.22	5.45E-07	1.22	2.14E-07	1.23	3.610E-07	1.21
1947	1.365E-07	1.24	5.17E-08	1.23	4.94E-07	1.24	1.72E-07	1.24	3.112E-07	1.23
1948	1.894E-07	1.21	7.32E-08	1.21	5.96E-07	1.21	2.56E-07	1.23	4.108E-07	1.20
1949	2.989E-07	1.20	1.17E-07	1.20	8.73E-07	1.20	4.15E-07	1.22	6.458E-07	1.19
1950	4.859E-07	1.19	1.92E-07	1.18	1.46E-06	1.18	6.52E-07	1.19	1.082E-06	1.18
1951	5.320E-07	1.17	2.11E-07	1.17	1.62E-06	1.16	7.13E-07	1.17	1.193E-06	1.17
1952	5.867E-07	1.18	2.33E-07	1.17	1.72E-06	1.16	8.00E-07	1.19	1.292E-06	1.16
1953	8.610E-07	1.18	3.45E-07	1.17	2.25E-06	1.15	1.25E-06	1.21	1.814E-06	1.15
1954	8.610E-07	1.18	3.45E-07	1.17	2.25E-06	1.15	1.25E-06	1.21	1.814E-06	1.15
1955	1.316E-06	1.16	5.18E-07	1.14	3.78E-06	1.15	1.85E-06	1.17	2.823E-06	1.14
1956	1.415E-06	1.16	5.57E-07	1.14	4.15E-06	1.15	1.98E-06	1.17	3.057E-06	1.14
1957	1.408E-06	1.16	5.54E-07	1.14	4.11E-06	1.15	1.98E-06	1.17	3.038E-06	1.14
1958	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1959	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1960	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1961	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1962	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1963	1.433E-06	1.16	5.63E-07	1.14	4.19E-06	1.15	2.01E-06	1.17	3.093E-06	1.14
1964	1.759E-06	1.13	7.01E-07	1.11	5.49E-06	1.11	2.44E-06	1.14	3.831E-06	1.11
1965	1.501E-06	1.15	5.98E-07	1.12	4.64E-06	1.13	2.12E-06	1.16	3.235E-06	1.13
1966	1.384E-06	1.16	5.54E-07	1.13	4.26E-06	1.14	1.97E-06	1.17	2.970E-06	1.13
1967	1.353E-06	1.16	5.41E-07	1.13	4.15E-06	1.14	1.93E-06	1.17	2.897E-06	1.14
1968	1.236E-06	1.17	4.93E-07	1.14	3.87E-06	1.15	1.75E-06	1.18	2.657E-06	1.15
1969	9.902E-07	1.19	3.95E-07	1.15	3.41E-06	1.16	1.35E-06	1.19	2.208E-06	1.16
1970	6.273E-07	1.20	2.53E-07	1.17	2.34E-06	1.17	8.36E-07	1.20	1.433E-06	1.18
1971	3.413E-07	1.18	1.43E-07	1.16	1.36E-06	1.14	4.51E-07	1.18	7.811E-07	1.16
1972	2.442E-07	1.17	1.03E-07	1.16	9.84E-07	1.13	3.23E-07	1.17	5.609E-07	1.15
1973	2.442E-07	1.17	1.03E-07	1.16	9.84E-07	1.13	3.23E-07	1.17	5.609E-07	1.15
1974	1.224E-07	1.17	5.14E-08	1.16	4.93E-07	1.13	1.61E-07	1.17	2.804E-07	1.15
1975	7.565E-08	1.17	3.17E-08	1.16	3.04E-07	1.13	9.96E-08	1.17	1.734E-07	1.15
1976	8.672E-08	1.17	3.64E-08	1.16	3.49E-07	1.13	1.14E-07	1.17	1.986E-07	1.15
1977	3.198E-07	1.17	1.35E-07	1.16	1.29E-06	1.13	4.23E-07	1.17	7.319E-07	1.15
1978	2.688E-07	1.17	1.13E-07	1.16	1.08E-06	1.13	3.55E-07	1.17	6.150E-07	1.15
1979	2.103E-07	1.17	8.86E-08	1.16	8.49E-07	1.13	2.77E-07	1.17	4.822E-07	1.15
1980	5.615E-08	1.17	2.36E-08	1.16	2.26E-07	1.13	7.44E-08	1.17	1.292E-07	1.15
1981	1.587E-07	1.17	6.70E-08	1.16	6.40E-07	1.13	2.10E-07	1.17	3.647E-07	1.15
1982	2.786E-07	1.17	1.17E-07	1.16	1.13E-06	1.13	3.68E-07	1.17	6.396E-07	1.15
1983	2.952E-07	1.17	1.24E-07	1.16	1.19E-06	1.13	3.91E-07	1.17	6.765E-07	1.15
1984	1.882E-07	1.17	7.93E-08	1.16	7.56E-07	1.13	2.48E-07	1.17	4.317E-07	1.15
1985	1.685E-07	1.17	7.07E-08	1.16	6.83E-07	1.13	2.23E-07	1.17	3.868E-07	1.15
1986	2.934E-07	1.17	1.24E-07	1.16	1.18E-06	1.13	3.87E-07	1.17	6.704E-07	1.15
1987	1.101E-08	1.17	4.62E-09	1.16	4.43E-08	1.13	1.45E-08	1.17	2.522E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	3.53E-08	1.64	5.48E-08	1.64	3.12E-08	1.63	3.106E-08	1.63	5.23E-08	1.66
1945	2.88E-07	1.21	3.39E-07	1.23	2.03E-07	1.22	2.282E-07	1.21	3.71E-07	1.23
1946	1.97E-07	1.22	1.77E-07	1.26	1.14E-07	1.24	1.433E-07	1.22	2.26E-07	1.23
1947	1.64E-07	1.23	1.22E-07	1.24	8.30E-08	1.24	1.138E-07	1.23	1.75E-07	1.23
1948	2.30E-07	1.22	2.32E-07	1.25	1.45E-07	1.23	1.728E-07	1.22	2.77E-07	1.23
1949	3.67E-07	1.21	3.95E-07	1.21	2.42E-07	1.21	2.811E-07	1.20	4.54E-07	1.22
1950	6.01E-07	1.19	5.66E-07	1.18	3.59E-07	1.18	4.397E-07	1.18	7.01E-07	1.19
1951	6.58E-07	1.17	6.15E-07	1.17	3.93E-07	1.17	4.828E-07	1.17	7.69E-07	1.17
1952	7.26E-07	1.18	7.32E-07	1.19	4.57E-07	1.18	5.449E-07	1.17	8.73E-07	1.19
1953	1.07E-06	1.18	1.31E-06	1.20	7.81E-07	1.19	8.549E-07	1.18	1.41E-06	1.21
1954	1.07E-06	1.18	1.31E-06	1.20	7.81E-07	1.19	8.549E-07	1.18	1.41E-06	1.21
1955	1.62E-06	1.16	1.92E-06	1.16	1.18E-06	1.15	1.298E-06	1.15	2.11E-06	1.17
1956	1.74E-06	1.16	2.04E-06	1.15	1.27E-06	1.15	1.390E-06	1.15	2.26E-06	1.17
1957	1.73E-06	1.16	2.05E-06	1.15	1.27E-06	1.15	1.390E-06	1.15	2.26E-06	1.17
1958	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1959	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1960	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1961	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1962	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1963	1.77E-06	1.15	2.08E-06	1.15	1.29E-06	1.15	1.415E-06	1.15	2.29E-06	1.17
1964	2.16E-06	1.13	2.48E-06	1.13	1.56E-06	1.13	1.734E-06	1.12	2.79E-06	1.14
1965	1.85E-06	1.14	2.24E-06	1.14	1.40E-06	1.14	1.519E-06	1.13	2.46E-06	1.15
1966	1.70E-06	1.15	2.15E-06	1.15	1.33E-06	1.14	1.421E-06	1.14	2.31E-06	1.16
1967	1.67E-06	1.16	2.11E-06	1.15	1.31E-06	1.15	1.396E-06	1.14	2.27E-06	1.16
1968	1.51E-06	1.17	1.89E-06	1.16	1.18E-06	1.16	1.261E-06	1.15	2.05E-06	1.17
1969	1.21E-06	1.18	1.38E-06	1.17	8.98E-07	1.17	9.902E-07	1.16	1.58E-06	1.18
1970	7.69E-07	1.19	8.06E-07	1.18	5.42E-07	1.18	6.212E-07	1.18	9.72E-07	1.18
1971	4.21E-07	1.17	4.23E-07	1.17	2.88E-07	1.17	3.389E-07	1.16	5.28E-07	1.16
1972	3.01E-07	1.16	3.01E-07	1.16	2.05E-07	1.16	2.429E-07	1.15	3.77E-07	1.15
1973	3.01E-07	1.16	3.01E-07	1.16	2.05E-07	1.16	2.429E-07	1.15	3.77E-07	1.15
1974	1.51E-07	1.16	1.51E-07	1.16	1.03E-07	1.16	1.212E-07	1.15	1.89E-07	1.15
1975	9.29E-08	1.16	9.29E-08	1.16	6.33E-08	1.16	7.503E-08	1.15	1.17E-07	1.15
1976	1.06E-07	1.16	1.06E-07	1.16	7.26E-08	1.16	8.610E-08	1.15	1.33E-07	1.15
1977	3.94E-07	1.16	3.95E-07	1.16	2.69E-07	1.16	3.180E-07	1.15	4.94E-07	1.15
1978	3.31E-07	1.16	3.31E-07	1.16	2.26E-07	1.16	2.669E-07	1.15	4.15E-07	1.15
1979	2.59E-07	1.16	2.59E-07	1.16	1.77E-07	1.16	2.091E-07	1.15	3.25E-07	1.15
1980	6.95E-08	1.16	6.95E-08	1.16	4.72E-08	1.16	5.584E-08	1.15	8.67E-08	1.15
1981	1.96E-07	1.16	1.96E-07	1.16	1.33E-07	1.16	1.581E-07	1.15	2.45E-07	1.15
1982	3.43E-07	1.16	3.43E-07	1.16	2.34E-07	1.16	2.768E-07	1.15	4.30E-07	1.15
1983	3.65E-07	1.16	3.65E-07	1.16	2.48E-07	1.16	2.940E-07	1.15	4.56E-07	1.15
1984	2.32E-07	1.16	2.32E-07	1.16	1.58E-07	1.16	1.870E-07	1.15	2.90E-07	1.15
1985	2.08E-07	1.16	2.08E-07	1.16	1.41E-07	1.16	1.673E-07	1.15	2.60E-07	1.15
1986	3.62E-07	1.16	3.62E-07	1.16	2.46E-07	1.16	2.915E-07	1.15	4.53E-07	1.15
1987	1.35E-08	1.16	1.35E-08	1.16	9.23E-09	1.16	1.095E-08	1.15	1.70E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-11. Ar-41 Submersion Gamma Dose, Sv (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM	GSD	GM	GSD	GM	GSD				
1944	3.65E-08	1.64	5.01E-08	1.67	5.289E-08	1.65				
1945	2.35E-07	1.23	3.54E-07	1.24	3.499E-07	1.23				
1946	1.30E-07	1.25	2.14E-07	1.24	1.986E-07	1.25				
1947	9.41E-08	1.24	1.65E-07	1.23	1.470E-07	1.24				
1948	1.66E-07	1.24	2.63E-07	1.24	2.509E-07	1.24				
1949	2.78E-07	1.21	4.31E-07	1.22	4.176E-07	1.22				
1950	4.10E-07	1.18	6.64E-07	1.19	6.212E-07	1.19				
1951	4.50E-07	1.17	7.32E-07	1.18	6.827E-07	1.17				
1952	5.24E-07	1.19	8.30E-07	1.19	7.934E-07	1.19				
1953	9.04E-07	1.19	1.34E-06	1.22	1.341E-06	1.21				
1954	9.04E-07	1.19	1.34E-06	1.22	1.341E-06	1.21				
1955	1.36E-06	1.16	2.02E-06	1.17	2.097E-06	1.16				
1956	1.46E-06	1.15	2.16E-06	1.17	2.257E-06	1.16				
1957	1.46E-06	1.15	2.16E-06	1.17	2.269E-06	1.16				
1958	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1959	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1960	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1961	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1962	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1963	1.48E-06	1.15	2.20E-06	1.17	2.294E-06	1.16				
1964	1.79E-06	1.13	2.68E-06	1.14	2.780E-06	1.13				
1965	1.61E-06	1.14	2.36E-06	1.15	2.497E-06	1.15				
1966	1.54E-06	1.15	2.23E-06	1.16	2.380E-06	1.15				
1967	1.51E-06	1.15	2.18E-06	1.17	2.337E-06	1.15				
1968	1.36E-06	1.16	1.97E-06	1.17	2.122E-06	1.16				
1969	1.03E-06	1.17	1.53E-06	1.17	1.642E-06	1.17				
1970	6.21E-07	1.18	9.41E-07	1.18	9.963E-07	1.19				
1971	3.27E-07	1.17	5.09E-07	1.15	5.191E-07	1.17				
1972	2.33E-07	1.16	3.64E-07	1.14	3.684E-07	1.16				
1973	2.33E-07	1.16	3.64E-07	1.14	3.684E-07	1.16				
1974	1.17E-07	1.16	1.82E-07	1.14	1.845E-07	1.16				
1975	7.20E-08	1.16	1.13E-07	1.14	1.138E-07	1.16				
1976	8.24E-08	1.16	1.29E-07	1.14	1.304E-07	1.16				
1977	3.06E-07	1.16	4.77E-07	1.14	4.828E-07	1.16				
1978	2.56E-07	1.16	4.00E-07	1.14	4.053E-07	1.16				
1979	2.00E-07	1.16	3.13E-07	1.14	3.167E-07	1.16				
1980	5.36E-08	1.16	8.36E-08	1.14	8.487E-08	1.16				
1981	1.51E-07	1.16	2.37E-07	1.14	2.399E-07	1.16				
1982	2.66E-07	1.16	4.15E-07	1.14	4.200E-07	1.16				
1983	2.82E-07	1.16	4.40E-07	1.14	4.459E-07	1.16				
1984	1.80E-07	1.16	2.80E-07	1.14	2.841E-07	1.16				
1985	1.61E-07	1.16	2.52E-07	1.14	2.546E-07	1.16				
1986	2.80E-07	1.16	4.37E-07	1.14	4.422E-07	1.16				
1987	1.05E-08	1.16	1.64E-08	1.14	1.661E-08	1.16				
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv.

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	8.69E-08	1.65	1.00E-07	1.68	7.15E-08	1.65	9.73E-08	1.68	7.91E-08	1.65
1945	5.75E-07	1.23	6.84E-07	1.25	4.72E-07	1.23	6.79E-07	1.25	5.16E-07	1.23
1946	3.26E-07	1.25	4.01E-07	1.24	2.68E-07	1.24	4.05E-07	1.24	2.89E-07	1.25
1947	2.41E-07	1.24	3.03E-07	1.23	1.97E-07	1.24	3.10E-07	1.23	2.11E-07	1.24
1948	4.12E-07	1.24	5.00E-07	1.25	3.38E-07	1.24	5.01E-07	1.24	3.67E-07	1.24
1949	6.86E-07	1.22	8.25E-07	1.23	5.63E-07	1.21	8.25E-07	1.23	6.14E-07	1.21
1950	1.02E-06	1.19	1.25E-06	1.19	8.40E-07	1.18	1.26E-06	1.19	9.13E-07	1.18
1951	1.12E-06	1.17	1.37E-06	1.18	9.22E-07	1.17	1.38E-06	1.18	1.00E-06	1.17
1952	1.30E-06	1.19	1.58E-06	1.20	1.07E-06	1.19	1.58E-06	1.20	1.16E-06	1.19
1953	2.20E-06	1.21	2.61E-06	1.23	1.81E-06	1.20	2.58E-06	1.23	1.99E-06	1.20
1954	2.20E-06	1.21	2.61E-06	1.23	1.81E-06	1.20	2.58E-06	1.23	1.99E-06	1.20
1955	3.44E-06	1.16	3.97E-06	1.18	2.81E-06	1.16	3.89E-06	1.18	3.05E-06	1.16
1956	3.71E-06	1.16	4.25E-06	1.17	3.03E-06	1.16	4.17E-06	1.18	3.28E-06	1.16
1957	3.73E-06	1.16	4.27E-06	1.18	3.04E-06	1.16	4.18E-06	1.18	3.29E-06	1.16
1958	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1959	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1960	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1961	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1962	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1963	3.77E-06	1.16	4.32E-06	1.17	3.08E-06	1.16	4.24E-06	1.18	3.33E-06	1.16
1964	4.57E-06	1.13	5.26E-06	1.14	3.73E-06	1.13	5.13E-06	1.15	4.04E-06	1.13
1965	4.10E-06	1.15	4.68E-06	1.16	3.34E-06	1.15	4.53E-06	1.16	3.63E-06	1.14
1966	3.91E-06	1.15	4.43E-06	1.17	3.18E-06	1.15	4.28E-06	1.17	3.45E-06	1.15
1967	3.84E-06	1.15	4.35E-06	1.17	3.13E-06	1.15	4.20E-06	1.18	3.40E-06	1.15
1968	3.48E-06	1.16	3.94E-06	1.18	2.84E-06	1.16	3.79E-06	1.18	3.07E-06	1.16
1969	2.70E-06	1.17	3.03E-06	1.18	2.18E-06	1.17	2.92E-06	1.19	2.35E-06	1.17
1970	1.64E-06	1.19	1.86E-06	1.19	1.32E-06	1.19	1.78E-06	1.20	1.42E-06	1.18
1971	8.52E-07	1.17	9.92E-07	1.16	6.88E-07	1.16	9.46E-07	1.17	7.45E-07	1.16
1972	6.05E-07	1.16	7.08E-07	1.15	4.89E-07	1.15	6.75E-07	1.16	5.30E-07	1.15
1973	6.05E-07	1.16	7.08E-07	1.15	4.89E-07	1.15	6.75E-07	1.16	5.30E-07	1.15
1974	3.03E-07	1.16	3.54E-07	1.15	2.44E-07	1.15	3.37E-07	1.16	2.66E-07	1.15
1975	1.87E-07	1.16	2.19E-07	1.15	1.50E-07	1.15	2.08E-07	1.16	1.64E-07	1.15
1976	2.14E-07	1.16	2.50E-07	1.15	1.73E-07	1.15	2.38E-07	1.16	1.88E-07	1.15
1977	7.93E-07	1.16	9.27E-07	1.15	6.40E-07	1.15	8.84E-07	1.16	6.95E-07	1.15
1978	6.66E-07	1.16	7.79E-07	1.15	5.37E-07	1.15	7.42E-07	1.16	5.84E-07	1.15
1979	5.20E-07	1.16	6.09E-07	1.15	4.20E-07	1.15	5.80E-07	1.16	4.57E-07	1.15
1980	1.39E-07	1.16	1.63E-07	1.15	1.12E-07	1.15	1.56E-07	1.16	1.22E-07	1.15
1981	3.94E-07	1.16	4.61E-07	1.15	3.17E-07	1.15	4.38E-07	1.16	3.44E-07	1.15
1982	6.90E-07	1.16	8.07E-07	1.15	5.57E-07	1.15	7.69E-07	1.16	6.05E-07	1.15
1983	7.32E-07	1.16	8.56E-07	1.15	5.91E-07	1.15	8.16E-07	1.16	6.41E-07	1.15
1984	4.67E-07	1.16	5.45E-07	1.15	3.76E-07	1.15	5.19E-07	1.16	4.08E-07	1.15
1985	4.18E-07	1.16	4.89E-07	1.15	3.37E-07	1.15	4.66E-07	1.16	3.66E-07	1.15
1986	7.26E-07	1.16	8.49E-07	1.15	5.86E-07	1.15	8.09E-07	1.16	6.36E-07	1.15
1987	2.73E-08	1.16	3.18E-08	1.15	2.20E-08	1.15	3.04E-08	1.16	2.38E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.90E-06	1.71	1.90E-07	1.61	1.91E-07	1.66	2.61E-07	2.01	1.62E-07	1.70
1945	8.67E-06	1.34	1.36E-06	1.21	2.04E-06	1.21	3.54E-06	1.42	2.18E-06	1.20
1946	2.27E-06	1.60	8.54E-07	1.23	1.72E-06	1.24	3.27E-06	1.45	1.97E-06	1.22
1947	3.56E-07	1.24	6.79E-07	1.24	1.60E-06	1.26	3.17E-06	1.47	1.87E-06	1.23
1948	4.39E-06	1.45	1.03E-06	1.22	1.84E-06	1.23	3.38E-06	1.44	2.06E-06	1.21
1949	8.84E-06	1.33	1.66E-06	1.20	2.57E-06	1.21	4.27E-06	1.36	4.37E-06	1.42
1950	9.35E-06	1.31	2.57E-06	1.18	4.29E-06	1.19	6.99E-06	1.28	1.13E-05	1.41
1951	9.51E-06	1.31	2.88E-06	1.17	5.14E-06	1.17	8.98E-06	1.31	1.22E-05	1.38
1952	1.38E-05	1.34	3.24E-06	1.18	5.39E-06	1.17	9.19E-06	1.30	1.24E-05	1.38
1953	3.61E-05	1.28	5.09E-06	1.18	6.69E-06	1.15	1.03E-05	1.27	1.34E-05	1.35
1954	3.61E-05	1.28	5.09E-06	1.18	6.69E-06	1.15	1.03E-05	1.27	1.34E-05	1.35
1955	3.83E-05	1.26	4.35E-05	1.47	9.74E-06	1.13	1.27E-05	1.22	1.60E-05	1.30
1956	3.74E-05	1.26	5.37E-05	1.46	1.05E-05	1.13	1.33E-05	1.22	1.66E-05	1.29
1957	3.88E-05	1.26	5.37E-05	1.46	1.03E-05	1.13	1.29E-05	1.21	1.58E-05	1.28
1958	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1959	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1960	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1961	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1962	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1963	3.88E-05	1.26	5.38E-05	1.46	1.05E-05	1.13	1.34E-05	1.21	1.67E-05	1.28
1964	4.01E-05	1.25	5.70E-05	1.44	2.96E-05	1.39	1.84E-05	1.16	2.04E-05	1.23
1965	3.94E-05	1.25	5.56E-05	1.45	2.69E-05	1.43	1.35E-05	1.14	1.28E-05	1.18
1966	3.91E-05	1.26	5.50E-05	1.45	2.59E-05	1.44	1.23E-05	1.15	9.43E-06	1.11
1967	3.90E-05	1.26	5.48E-05	1.45	2.53E-05	1.45	1.10E-05	1.13	8.88E-06	1.12
1968	3.16E-05	1.29	5.40E-05	1.46	2.42E-05	1.47	9.26E-06	1.13	8.01E-06	1.13
1969	1.23E-05	1.41	5.23E-05	1.48	2.30E-05	1.50	8.36E-06	1.14	7.16E-06	1.13
1970	2.68E-06	1.19	2.95E-05	1.51	2.07E-05	1.55	6.57E-06	1.15	5.39E-06	1.14
1971	1.32E-06	1.16	4.66E-06	1.59	1.86E-05	1.61	4.98E-06	1.17	3.82E-06	1.14
1972	9.30E-07	1.15	2.22E-06	1.18	1.41E-05	1.61	3.73E-06	1.18	2.83E-06	1.14
1973	9.30E-07	1.15	2.22E-06	1.18	1.41E-05	1.61	3.73E-06	1.18	2.83E-06	1.14
1974	4.65E-07	1.15	1.11E-06	1.18	7.08E-06	1.61	1.87E-06	1.18	1.41E-06	1.14
1975	2.88E-07	1.15	6.87E-07	1.18	4.37E-06	1.61	1.15E-06	1.18	8.76E-07	1.14
1976	3.29E-07	1.15	7.87E-07	1.18	5.01E-06	1.61	1.32E-06	1.18	1.00E-06	1.14
1977	1.22E-06	1.15	2.91E-06	1.18	1.86E-05	1.61	4.89E-06	1.18	3.71E-06	1.14
1978	1.02E-06	1.15	2.44E-06	1.18	1.56E-05	1.61	4.10E-06	1.18	3.12E-06	1.14
1979	8.00E-07	1.15	1.91E-06	1.18	1.22E-05	1.61	3.21E-06	1.18	2.43E-06	1.14
1980	2.14E-07	1.15	5.11E-07	1.18	3.25E-06	1.61	8.59E-07	1.18	6.51E-07	1.14
1981	6.04E-07	1.15	1.44E-06	1.18	9.20E-06	1.61	2.42E-06	1.18	1.84E-06	1.14
1982	1.06E-06	1.15	2.54E-06	1.18	1.62E-05	1.61	4.25E-06	1.18	3.23E-06	1.14
1983	1.12E-06	1.15	2.69E-06	1.18	1.72E-05	1.61	4.51E-06	1.18	3.42E-06	1.14
1984	7.16E-07	1.15	1.71E-06	1.18	1.09E-05	1.61	2.87E-06	1.18	2.18E-06	1.14
1985	6.41E-07	1.15	1.54E-06	1.18	9.77E-06	1.61	2.58E-06	1.18	1.96E-06	1.14
1986	1.11E-06	1.15	2.67E-06	1.18	1.70E-05	1.61	4.47E-06	1.18	3.40E-06	1.14
1987	4.18E-08	1.15	1.00E-07	1.18	6.37E-07	1.61	1.68E-07	1.18	1.27E-07	1.14
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.61E-07	1.63	1.90E-07	1.71	9.76E-08	1.64	1.28E-07	1.63	1.00E-07	1.65
1945	6.08E-06	1.36	1.12E-06	1.30	5.96E-07	1.23	1.34E-06	1.20	1.24E-06	1.20
1946	6.19E-06	1.37	5.41E-07	1.29	3.07E-07	1.26	1.11E-06	1.24	1.08E-06	1.22
1947	6.08E-06	1.38	3.49E-07	1.24	2.10E-07	1.23	1.02E-06	1.25	1.02E-06	1.23
1948	6.31E-06	1.36	7.37E-07	1.30	4.06E-07	1.25	1.20E-06	1.22	1.15E-06	1.21
1949	7.14E-06	1.33	1.27E-06	1.27	6.92E-07	1.21	1.80E-06	1.22	2.02E-06	1.27
1950	9.11E-06	1.26	1.76E-06	1.22	9.83E-07	1.18	3.22E-06	1.20	4.45E-06	1.24
1951	9.74E-06	1.25	1.91E-06	1.20	1.07E-06	1.17	3.72E-06	1.18	4.89E-06	1.22
1952	9.98E-06	1.24	2.31E-06	1.24	1.27E-06	1.19	3.91E-06	1.18	5.03E-06	1.21
1953	1.12E-05	1.22	4.36E-06	1.27	2.31E-06	1.20	4.85E-06	1.16	5.73E-06	1.19
1954	1.12E-05	1.22	4.36E-06	1.27	2.31E-06	1.20	4.85E-06	1.16	5.73E-06	1.19
1955	1.45E-05	1.18	6.45E-06	1.20	3.43E-06	1.16	7.13E-06	1.14	7.39E-06	1.16
1956	1.54E-05	1.18	6.88E-06	1.19	3.67E-06	1.15	7.68E-06	1.14	7.79E-06	1.16
1957	1.52E-05	1.18	6.95E-06	1.19	3.70E-06	1.15	7.53E-06	1.14	7.52E-06	1.16
1958	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1959	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1960	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1961	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1962	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1963	1.55E-05	1.18	7.01E-06	1.19	3.74E-06	1.15	7.74E-06	1.13	7.83E-06	1.16
1964	1.99E-05	1.14	8.25E-06	1.16	4.46E-06	1.13	1.11E-05	1.10	1.01E-05	1.13
1965	1.47E-05	1.14	7.59E-06	1.18	4.06E-06	1.14	9.15E-06	1.11	7.28E-06	1.13
1966	1.13E-05	1.13	7.31E-06	1.18	3.89E-06	1.14	8.38E-06	1.12	6.03E-06	1.12
1967	1.09E-05	1.14	7.21E-06	1.19	3.83E-06	1.15	8.06E-06	1.12	5.74E-06	1.13
1968	1.01E-05	1.14	6.44E-06	1.19	3.43E-06	1.16	7.42E-06	1.13	5.23E-06	1.14
1969	9.05E-06	1.15	4.65E-06	1.18	2.54E-06	1.17	6.62E-06	1.14	4.64E-06	1.15
1970	6.72E-06	1.16	2.65E-06	1.19	1.48E-06	1.18	4.95E-06	1.15	3.43E-06	1.16
1971	4.60E-06	1.15	1.32E-06	1.17	7.74E-07	1.16	3.47E-06	1.16	2.36E-06	1.17
1972	3.39E-06	1.15	9.37E-07	1.16	5.49E-07	1.15	2.59E-06	1.16	1.75E-06	1.18
1973	3.39E-06	1.15	9.37E-07	1.16	5.49E-07	1.15	2.59E-06	1.16	1.75E-06	1.18
1974	1.70E-06	1.15	4.69E-07	1.16	2.75E-07	1.15	1.29E-06	1.16	8.76E-07	1.18
1975	1.05E-06	1.15	2.90E-07	1.16	1.70E-07	1.15	7.98E-07	1.16	5.41E-07	1.18
1976	1.20E-06	1.15	3.31E-07	1.16	1.95E-07	1.15	9.14E-07	1.16	6.20E-07	1.18
1977	4.44E-06	1.15	1.23E-06	1.16	7.20E-07	1.15	3.38E-06	1.16	2.29E-06	1.18
1978	3.74E-06	1.15	1.03E-06	1.16	6.04E-07	1.15	2.84E-06	1.16	1.93E-06	1.18
1979	2.92E-06	1.15	8.06E-07	1.16	4.73E-07	1.15	2.22E-06	1.16	1.50E-06	1.18
1980	7.81E-07	1.15	2.15E-07	1.16	1.26E-07	1.15	5.94E-07	1.16	4.03E-07	1.18
1981	2.20E-06	1.15	6.09E-07	1.16	3.58E-07	1.15	1.68E-06	1.16	1.14E-06	1.18
1982	3.87E-06	1.15	1.07E-06	1.16	6.26E-07	1.15	2.94E-06	1.16	2.00E-06	1.18
1983	4.11E-06	1.15	1.13E-06	1.16	6.65E-07	1.15	3.12E-06	1.16	2.12E-06	1.18
1984	2.62E-06	1.15	7.21E-07	1.16	4.23E-07	1.15	1.99E-06	1.16	1.35E-06	1.18
1985	2.34E-06	1.15	6.46E-07	1.16	3.79E-07	1.15	1.78E-06	1.16	1.21E-06	1.18
1986	4.07E-06	1.15	1.12E-06	1.16	6.60E-07	1.15	3.10E-06	1.16	2.10E-06	1.18
1987	1.53E-07	1.15	4.21E-08	1.16	2.47E-08	1.15	1.16E-07	1.16	7.88E-08	1.18
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.24E-07	1.67	5.47E-08	1.64	4.41E-08	1.64	7.77E-08	1.64	8.23E-08	1.64
1945	1.58E-06	1.20	3.49E-07	1.23	3.51E-07	1.22	6.00E-07	1.22	5.63E-07	1.22
1946	1.39E-06	1.22	1.91E-07	1.25	2.34E-07	1.23	3.92E-07	1.23	3.31E-07	1.24
1947	1.31E-06	1.23	1.36E-07	1.24	1.93E-07	1.24	3.17E-07	1.24	2.51E-07	1.24
1948	1.47E-06	1.21	2.45E-07	1.24	2.77E-07	1.22	4.67E-07	1.22	4.11E-07	1.23
1949	2.67E-06	1.28	4.12E-07	1.21	4.43E-07	1.21	7.53E-07	1.21	6.78E-07	1.21
1950	6.09E-06	1.23	6.02E-07	1.18	7.16E-07	1.19	1.21E-06	1.18	1.03E-06	1.18
1951	6.68E-06	1.21	6.59E-07	1.17	7.83E-07	1.18	1.32E-06	1.17	1.13E-06	1.17
1952	6.85E-06	1.21	7.72E-07	1.19	8.71E-07	1.18	1.47E-06	1.18	1.30E-06	1.18
1953	7.66E-06	1.19	1.34E-06	1.20	1.31E-06	1.19	2.25E-06	1.19	2.14E-06	1.19
1954	7.66E-06	1.19	1.34E-06	1.20	1.31E-06	1.19	2.25E-06	1.19	2.14E-06	1.19
1955	9.91E-06	1.16	1.98E-06	1.16	1.96E-06	1.16	3.40E-06	1.17	3.1E-06	1.16
1956	1.04E-05	1.16	2.11E-06	1.15	2.10E-06	1.16	3.66E-06	1.17	3.57E-06	1.16
1957	1.01E-05	1.16	2.12E-06	1.15	2.09E-06	1.16	3.65E-06	1.17	3.58E-06	1.16
1958	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1959	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1960	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1961	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1962	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1963	1.05E-05	1.16	2.15E-06	1.15	2.13E-06	1.16	3.71E-06	1.16	3.62E-06	1.15
1964	1.36E-05	1.12	2.60E-06	1.13	2.60E-06	1.13	4.51E-06	1.14	4.41E-06	1.13
1965	9.63E-06	1.13	2.33E-06	1.14	2.23E-06	1.15	3.90E-06	1.15	3.93E-06	1.14
1966	7.91E-06	1.12	2.22E-06	1.14	2.06E-06	1.15	3.63E-06	1.16	3.73E-06	1.15
1967	7.51E-06	1.13	2.19E-06	1.15	2.02E-06	1.16	3.55E-06	1.17	3.66E-06	1.15
1968	6.87E-06	1.14	1.96E-06	1.16	1.83E-06	1.17	3.22E-06	1.18	3.32E-06	1.16
1969	6.17E-06	1.15	1.46E-06	1.16	1.45E-06	1.18	2.55E-06	1.19	2.59E-06	1.17
1970	4.60E-06	1.14	8.77E-07	1.17	9.10E-07	1.19	1.59E-06	1.20	1.59E-06	1.18
1971	3.17E-06	1.13	4.72E-07	1.16	4.97E-07	1.18	8.48E-07	1.17	8.45E-07	1.16
1972	2.34E-06	1.13	3.37E-07	1.15	3.57E-07	1.18	6.05E-07	1.17	6.03E-07	1.15
1973	2.34E-06	1.13	3.37E-07	1.15	3.57E-07	1.18	6.05E-07	1.17	6.03E-07	1.15
1974	1.17E-06	1.13	1.69E-07	1.15	1.78E-07	1.18	3.03E-07	1.17	3.01E-07	1.15
1975	7.25E-07	1.13	1.04E-07	1.15	1.10E-07	1.18	1.87E-07	1.17	1.86E-07	1.15
1976	8.30E-07	1.13	1.19E-07	1.15	1.26E-07	1.18	2.14E-07	1.17	2.13E-07	1.15
1977	3.07E-06	1.13	4.41E-07	1.15	4.67E-07	1.18	7.93E-07	1.17	7.90E-07	1.15
1978	2.58E-06	1.13	3.71E-07	1.15	3.92E-07	1.18	6.66E-07	1.17	6.63E-07	1.15
1979	2.02E-06	1.13	2.90E-07	1.15	3.06E-07	1.18	5.20E-07	1.17	5.18E-07	1.15
1980	5.39E-07	1.13	7.76E-08	1.15	8.19E-08	1.18	1.39E-07	1.17	1.38E-07	1.15
1981	1.53E-06	1.13	2.19E-07	1.15	2.31E-07	1.18	3.94E-07	1.17	3.92E-07	1.15
1982	2.68E-06	1.13	3.84E-07	1.15	4.06E-07	1.18	6.90E-07	1.17	6.87E-07	1.15
1983	2.84E-06	1.13	4.08E-07	1.15	4.31E-07	1.18	7.32E-07	1.17	7.29E-07	1.15
1984	1.81E-06	1.13	2.60E-07	1.15	2.74E-07	1.18	4.67E-07	1.17	4.64E-07	1.15
1985	1.62E-06	1.13	2.32E-07	1.15	2.45E-07	1.18	4.18E-07	1.17	4.16E-07	1.15
1986	2.82E-06	1.13	4.04E-07	1.15	4.27E-07	1.18	7.26E-07	1.17	7.23E-07	1.15
1987	1.06E-07	1.13	1.52E-08	1.15	1.61E-08	1.18	2.73E-08	1.17	2.72E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	1.72E-07	1.61	8.82E-08	1.65	3.58E-08	1.63	5.01E-08	1.61	5.25E-08	1.61
1945	1.37E-06	1.20	5.95E-07	1.23	2.86E-07	1.21	4.50E-07	1.20	4.90E-07	1.19
1946	9.46E-07	1.22	3.45E-07	1.24	1.91E-07	1.23	3.27E-07	1.22	3.65E-07	1.22
1947	7.95E-07	1.24	2.60E-07	1.24	1.58E-07	1.24	2.82E-07	1.24	3.18E-07	1.24
1948	1.10E-06	1.21	4.32E-07	1.24	2.25E-07	1.22	3.73E-07	1.21	4.12E-07	1.21
1949	1.71E-06	1.20	7.15E-07	1.21	3.61E-07	1.21	5.83E-07	1.20	6.41E-07	1.20
1950	2.76E-06	1.18	1.08E-06	1.18	5.83E-07	1.19	9.74E-07	1.19	1.09E-06	1.19
1951	3.11E-06	1.17	1.19E-06	1.17	6.37E-07	1.18	1.07E-06	1.17	1.19E-06	1.17
1952	3.42E-06	1.17	1.36E-06	1.19	7.08E-07	1.18	1.16E-06	1.17	1.29E-06	1.17
1953	5.01E-06	1.17	2.27E-06	1.20	1.06E-06	1.18	1.64E-06	1.17	1.78E-06	1.16
1954	5.01E-06	1.17	2.27E-06	1.20	1.06E-06	1.18	1.64E-06	1.17	1.78E-06	1.16
1955	1.33E-05	1.21	3.54E-06	1.16	1.59E-06	1.15	2.49E-06	1.15	2.72E-06	1.15
1956	1.55E-05	1.21	3.81E-06	1.16	1.71E-06	1.15	2.70E-06	1.15	2.93E-06	1.15
1957	1.55E-05	1.21	3.82E-06	1.16	1.70E-06	1.15	2.68E-06	1.15	2.90E-06	1.15
1958	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1959	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1960	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1961	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1962	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1963	1.56E-05	1.20	3.87E-06	1.15	1.73E-06	1.15	2.73E-06	1.15	2.96E-06	1.15
1964	1.88E-05	1.17	4.72E-06	1.13	2.11E-06	1.12	3.37E-06	1.13	3.69E-06	1.12
1965	1.73E-05	1.18	4.21E-06	1.14	1.82E-06	1.14	2.84E-06	1.14	3.08E-06	1.14
1966	1.67E-05	1.19	4.01E-06	1.15	1.68E-06	1.15	2.60E-06	1.15	2.80E-06	1.15
1967	1.65E-05	1.19	3.93E-06	1.15	1.65E-06	1.15	2.54E-06	1.15	2.73E-06	1.15
1968	1.57E-05	1.20	3.57E-06	1.16	1.49E-06	1.16	2.31E-06	1.17	2.49E-06	1.16
1969	1.42E-05	1.22	2.78E-06	1.17	1.18E-06	1.17	1.90E-06	1.18	2.07E-06	1.18
1970	8.89E-06	1.24	1.71E-06	1.18	7.44E-07	1.18	1.23E-06	1.19	1.35E-06	1.19
1971	3.54E-06	1.19	9.00E-07	1.16	4.10E-07	1.18	6.80E-07	1.18	7.59E-07	1.18
1972	2.38E-06	1.15	6.41E-07	1.15	2.94E-07	1.18	4.88E-07	1.17	5.45E-07	1.17
1973	2.38E-06	1.15	6.41E-07	1.15	2.94E-07	1.18	4.88E-07	1.17	5.45E-07	1.17
1974	1.19E-06	1.15	3.20E-07	1.15	1.46E-07	1.18	2.43E-07	1.17	2.73E-07	1.17
1975	7.36E-07	1.15	1.98E-07	1.15	9.08E-08	1.18	1.50E-07	1.17	1.69E-07	1.17
1976	8.43E-07	1.15	2.27E-07	1.15	1.04E-07	1.18	1.73E-07	1.17	1.93E-07	1.17
1977	3.12E-06	1.15	8.40E-07	1.15	3.85E-07	1.18	6.39E-07	1.17	7.14E-07	1.17
1978	2.62E-06	1.15	7.05E-07	1.15	3.23E-07	1.18	5.36E-07	1.17	6.00E-07	1.17
1979	2.05E-06	1.15	5.51E-07	1.15	2.53E-07	1.18	4.19E-07	1.17	4.69E-07	1.17
1980	5.47E-07	1.15	1.47E-07	1.15	6.76E-08	1.18	1.12E-07	1.17	1.25E-07	1.17
1981	1.55E-06	1.15	4.17E-07	1.15	1.91E-07	1.18	3.17E-07	1.17	3.55E-07	1.17
1982	2.72E-06	1.15	7.31E-07	1.15	3.35E-07	1.18	5.57E-07	1.17	6.21E-07	1.17
1983	2.88E-06	1.15	7.76E-07	1.15	3.56E-07	1.18	5.90E-07	1.17	6.60E-07	1.17
1984	1.84E-06	1.15	4.94E-07	1.15	2.26E-07	1.18	3.76E-07	1.17	4.20E-07	1.17
1985	1.65E-06	1.15	4.42E-07	1.15	2.03E-07	1.18	3.36E-07	1.17	3.76E-07	1.17
1986	2.86E-06	1.15	7.70E-07	1.15	3.52E-07	1.18	5.86E-07	1.17	6.54E-07	1.17
1987	1.07E-07	1.15	2.89E-08	1.15	1.32E-08	1.18	2.19E-08	1.17	2.45E-08	1.17
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	4.62E-08	1.63	1.89E-08	1.61	1.01E-07	1.60	7.22E-08	1.67	9.07E-08	1.60
1945	3.86E-07	1.21	1.52E-07	1.20	1.10E-06	1.19	5.48E-07	1.23	8.13E-07	1.18
1946	2.68E-07	1.22	1.02E-07	1.22	8.95E-07	1.22	3.51E-07	1.23	5.93E-07	1.21
1947	2.24E-07	1.24	8.49E-08	1.23	8.11E-07	1.24	2.82E-07	1.24	5.11E-07	1.23
1948	3.11E-07	1.21	1.20E-07	1.21	9.79E-07	1.21	4.21E-07	1.23	6.75E-07	1.20
1949	4.91E-07	1.20	1.92E-07	1.20	1.43E-06	1.20	6.81E-07	1.22	1.06E-06	1.19
1950	7.98E-07	1.19	3.15E-07	1.18	2.39E-06	1.18	1.07E-06	1.19	1.78E-06	1.18
1951	8.74E-07	1.17	3.46E-07	1.17	2.66E-06	1.16	1.17E-06	1.17	1.96E-06	1.17
1952	9.64E-07	1.18	3.83E-07	1.17	2.83E-06	1.16	1.31E-06	1.19	2.12E-06	1.16
1953	1.41E-06	1.18	5.67E-07	1.17	3.70E-06	1.15	2.05E-06	1.21	2.98E-06	1.15
1954	1.41E-06	1.18	5.67E-07	1.17	3.70E-06	1.15	2.05E-06	1.21	2.98E-06	1.15
1955	2.16E-06	1.16	8.50E-07	1.14	6.21E-06	1.15	3.04E-06	1.17	4.64E-06	1.14
1956	2.32E-06	1.16	9.14E-07	1.14	6.82E-06	1.15	3.25E-06	1.17	5.02E-06	1.14
1957	2.31E-06	1.16	9.09E-07	1.14	6.75E-06	1.15	3.25E-06	1.17	4.99E-06	1.14
1958	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1959	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1960	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1961	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1962	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1963	2.35E-06	1.16	9.25E-07	1.14	6.88E-06	1.15	3.30E-06	1.17	5.08E-06	1.14
1964	2.89E-06	1.13	1.15E-06	1.11	9.01E-06	1.11	4.01E-06	1.14	6.29E-06	1.11
1965	2.46E-06	1.15	9.83E-07	1.12	7.63E-06	1.13	3.47E-06	1.16	5.31E-06	1.13
1966	2.27E-06	1.16	9.10E-07	1.13	7.00E-06	1.14	3.23E-06	1.17	4.88E-06	1.13
1967	2.22E-06	1.16	8.89E-07	1.13	6.82E-06	1.14	3.17E-06	1.17	4.76E-06	1.14
1968	2.03E-06	1.17	8.09E-07	1.14	6.36E-06	1.15	2.87E-06	1.18	4.36E-06	1.15
1969	1.63E-06	1.19	6.49E-07	1.15	5.61E-06	1.16	2.22E-06	1.19	3.63E-06	1.16
1970	1.03E-06	1.20	4.16E-07	1.17	3.85E-06	1.17	1.37E-06	1.20	2.35E-06	1.18
1971	5.61E-07	1.18	2.34E-07	1.16	2.23E-06	1.14	7.41E-07	1.18	1.28E-06	1.16
1972	4.01E-07	1.17	1.69E-07	1.16	1.62E-06	1.13	5.30E-07	1.17	9.21E-07	1.15
1973	4.01E-07	1.17	1.69E-07	1.16	1.62E-06	1.13	5.30E-07	1.17	9.21E-07	1.15
1974	2.01E-07	1.17	8.44E-08	1.16	8.09E-07	1.13	2.65E-07	1.17	4.61E-07	1.15
1975	1.24E-07	1.17	5.21E-08	1.16	5.00E-07	1.13	1.64E-07	1.17	2.85E-07	1.15
1976	1.42E-07	1.17	5.98E-08	1.16	5.73E-07	1.13	1.88E-07	1.17	3.26E-07	1.15
1977	5.25E-07	1.17	2.21E-07	1.16	2.12E-06	1.13	6.94E-07	1.17	1.20E-06	1.15
1978	4.41E-07	1.17	1.86E-07	1.16	1.78E-06	1.13	5.83E-07	1.17	1.01E-06	1.15
1979	3.45E-07	1.17	1.45E-07	1.16	1.39E-06	1.13	4.56E-07	1.17	7.92E-07	1.15
1980	9.22E-08	1.17	3.88E-08	1.16	3.72E-07	1.13	1.22E-07	1.17	2.12E-07	1.15
1981	2.61E-07	1.17	1.10E-07	1.16	1.05E-06	1.13	3.44E-07	1.17	5.99E-07	1.15
1982	4.58E-07	1.17	1.93E-07	1.16	1.85E-06	1.13	6.04E-07	1.17	1.05E-06	1.15
1983	4.85E-07	1.17	2.04E-07	1.16	1.96E-06	1.13	6.41E-07	1.17	1.11E-06	1.15
1984	3.09E-07	1.17	1.30E-07	1.16	1.24E-06	1.13	4.08E-07	1.17	7.09E-07	1.15
1985	2.77E-07	1.17	1.16E-07	1.16	1.12E-06	1.13	3.66E-07	1.17	6.35E-07	1.15
1986	4.82E-07	1.17	2.03E-07	1.16	1.94E-06	1.13	6.35E-07	1.17	1.10E-06	1.15
1987	1.81E-08	1.17	7.60E-09	1.16	7.28E-08	1.13	2.38E-08	1.17	4.14E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM	GSD	GM	GSD	GM	GSD	GM	GSD	GM	GSD
1944	5.80E-08	1.64	9.00E-08	1.64	5.13E-08	1.63	5.10E-08	1.63	8.59E-08	1.66
1945	4.74E-07	1.21	5.57E-07	1.23	3.33E-07	1.22	3.75E-07	1.21	6.10E-07	1.23
1946	3.23E-07	1.22	2.91E-07	1.26	1.87E-07	1.24	2.35E-07	1.22	3.71E-07	1.23
1947	2.69E-07	1.23	2.01E-07	1.24	1.36E-07	1.24	1.87E-07	1.23	2.88E-07	1.23
1948	3.78E-07	1.22	3.82E-07	1.25	2.37E-07	1.23	2.84E-07	1.22	4.56E-07	1.23
1949	6.03E-07	1.21	6.48E-07	1.21	3.97E-07	1.21	4.62E-07	1.20	7.45E-07	1.22
1950	9.87E-07	1.19	9.29E-07	1.18	5.89E-07	1.18	7.22E-07	1.18	1.15E-06	1.19
1951	1.08E-06	1.17	1.01E-06	1.17	6.45E-07	1.17	7.93E-07	1.17	1.26E-06	1.17
1952	1.19E-06	1.18	1.20E-06	1.19	7.50E-07	1.18	8.95E-07	1.17	1.43E-06	1.19
1953	1.76E-06	1.18	2.15E-06	1.20	1.28E-06	1.19	1.40E-06	1.18	2.31E-06	1.21
1954	1.76E-06	1.18	2.15E-06	1.20	1.28E-06	1.19	1.40E-06	1.18	2.31E-06	1.21
1955	2.66E-06	1.16	3.15E-06	1.16	1.94E-06	1.15	2.13E-06	1.15	3.46E-06	1.17
1956	2.86E-06	1.16	3.35E-06	1.15	2.08E-06	1.15	2.28E-06	1.15	3.72E-06	1.17
1957	2.85E-06	1.16	3.37E-06	1.15	2.09E-06	1.15	2.28E-06	1.15	3.72E-06	1.17
1958	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1959	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1960	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1961	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1962	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1963	2.90E-06	1.15	3.41E-06	1.15	2.11E-06	1.15	2.32E-06	1.15	3.77E-06	1.17
1964	3.56E-06	1.13	4.07E-06	1.13	2.56E-06	1.13	2.85E-06	1.12	4.59E-06	1.14
1965	3.03E-06	1.14	3.68E-06	1.14	2.29E-06	1.14	2.49E-06	1.13	4.04E-06	1.15
1966	2.80E-06	1.15	3.52E-06	1.15	2.18E-06	1.14	2.33E-06	1.14	3.80E-06	1.16
1967	2.74E-06	1.16	3.46E-06	1.15	2.15E-06	1.15	2.29E-06	1.14	3.73E-06	1.16
1968	2.48E-06	1.17	3.10E-06	1.16	1.94E-06	1.16	2.07E-06	1.15	3.36E-06	1.17
1969	1.99E-06	1.18	2.27E-06	1.17	1.47E-06	1.17	1.63E-06	1.16	2.60E-06	1.18
1970	1.26E-06	1.19	1.32E-06	1.18	8.90E-07	1.18	1.02E-06	1.18	1.60E-06	1.18
1971	6.91E-07	1.17	6.95E-07	1.17	4.73E-07	1.17	5.57E-07	1.16	8.67E-07	1.16
1972	4.95E-07	1.16	4.95E-07	1.16	3.36E-07	1.16	3.99E-07	1.15	6.19E-07	1.15
1973	4.95E-07	1.16	4.95E-07	1.16	3.36E-07	1.16	3.99E-07	1.15	6.19E-07	1.15
1974	2.47E-07	1.16	2.47E-07	1.16	1.69E-07	1.16	1.99E-07	1.15	3.10E-07	1.15
1975	1.53E-07	1.16	1.53E-07	1.16	1.04E-07	1.16	1.23E-07	1.15	1.92E-07	1.15
1976	1.75E-07	1.16	1.75E-07	1.16	1.19E-07	1.16	1.41E-07	1.15	2.19E-07	1.15
1977	6.47E-07	1.16	6.48E-07	1.16	4.41E-07	1.16	5.22E-07	1.15	8.12E-07	1.15
1978	5.44E-07	1.16	5.44E-07	1.16	3.71E-07	1.16	4.38E-07	1.15	6.82E-07	1.15
1979	4.25E-07	1.16	4.25E-07	1.16	2.90E-07	1.16	3.43E-07	1.15	5.33E-07	1.15
1980	1.14E-07	1.16	1.14E-07	1.16	7.75E-08	1.16	9.17E-08	1.15	1.42E-07	1.15
1981	3.21E-07	1.16	3.21E-07	1.16	2.19E-07	1.16	2.60E-07	1.15	4.03E-07	1.15
1982	5.64E-07	1.16	5.64E-07	1.16	3.84E-07	1.16	4.55E-07	1.15	7.06E-07	1.15
1983	5.99E-07	1.16	5.99E-07	1.16	4.07E-07	1.16	4.83E-07	1.15	7.49E-07	1.15
1984	3.81E-07	1.16	3.81E-07	1.16	2.60E-07	1.16	3.07E-07	1.15	4.77E-07	1.15
1985	3.41E-07	1.16	3.41E-07	1.16	2.32E-07	1.16	2.75E-07	1.15	4.27E-07	1.15
1986	5.94E-07	1.16	5.94E-07	1.16	4.04E-07	1.16	4.79E-07	1.15	7.43E-07	1.15
1987	2.22E-08	1.16	2.22E-08	1.16	1.52E-08	1.16	1.80E-08	1.15	2.79E-08	1.15
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-12. Ar-41 Skin Beta-Gamma Dose, Sv (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM	GSD	GM	GSD	GM	GSD				
1944	5.99E-08	1.64	8.22E-08	1.67	8.69E-08	1.65				
1945	3.86E-07	1.23	5.81E-07	1.24	5.75E-07	1.23				
1946	2.13E-07	1.25	3.51E-07	1.24	3.26E-07	1.25				
1947	1.55E-07	1.24	2.72E-07	1.23	2.41E-07	1.24				
1948	2.73E-07	1.24	4.32E-07	1.24	4.12E-07	1.24				
1949	4.57E-07	1.21	7.08E-07	1.22	6.86E-07	1.22				
1950	6.74E-07	1.18	1.09E-06	1.19	1.02E-06	1.19				
1951	7.38E-07	1.17	1.20E-06	1.18	1.12E-06	1.17				
1952	8.61E-07	1.19	1.36E-06	1.19	1.30E-06	1.19				
1953	1.48E-06	1.19	2.20E-06	1.22	2.20E-06	1.21				
1954	1.48E-06	1.19	2.20E-06	1.22	2.20E-06	1.21				
1955	2.23E-06	1.16	3.31E-06	1.17	3.44E-06	1.16				
1956	2.39E-06	1.15	3.56E-06	1.17	3.71E-06	1.16				
1957	2.40E-06	1.15	3.56E-06	1.17	3.73E-06	1.16				
1958	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1959	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1960	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1961	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1962	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1963	2.43E-06	1.15	3.61E-06	1.17	3.77E-06	1.16				
1964	2.94E-06	1.13	4.40E-06	1.14	4.57E-06	1.13				
1965	2.65E-06	1.14	3.88E-06	1.15	4.10E-06	1.15				
1966	2.53E-06	1.15	3.66E-06	1.16	3.91E-06	1.15				
1967	2.47E-06	1.15	3.59E-06	1.17	3.84E-06	1.15				
1968	2.23E-06	1.16	3.24E-06	1.17	3.48E-06	1.16				
1969	1.69E-06	1.17	2.50E-06	1.17	2.70E-06	1.17				
1970	1.02E-06	1.18	1.55E-06	1.18	1.64E-06	1.19				
1971	5.37E-07	1.17	8.36E-07	1.15	8.52E-07	1.17				
1972	3.83E-07	1.16	5.98E-07	1.14	6.05E-07	1.16				
1973	3.83E-07	1.16	5.98E-07	1.14	6.05E-07	1.16				
1974	1.92E-07	1.16	2.99E-07	1.14	3.03E-07	1.16				
1975	1.18E-07	1.16	1.85E-07	1.14	1.87E-07	1.16				
1976	1.35E-07	1.16	2.12E-07	1.14	2.14E-07	1.16				
1977	5.02E-07	1.16	7.84E-07	1.14	7.93E-07	1.16				
1978	4.21E-07	1.16	6.58E-07	1.14	6.66E-07	1.16				
1979	3.29E-07	1.16	5.14E-07	1.14	5.20E-07	1.16				
1980	8.81E-08	1.16	1.37E-07	1.14	1.39E-07	1.16				
1981	2.48E-07	1.16	3.89E-07	1.14	3.94E-07	1.16				
1982	4.36E-07	1.16	6.82E-07	1.14	6.90E-07	1.16				
1983	4.64E-07	1.16	7.23E-07	1.14	7.32E-07	1.16				
1984	2.95E-07	1.16	4.61E-07	1.14	4.67E-07	1.16				
1985	2.65E-07	1.16	4.13E-07	1.14	4.18E-07	1.16				
1986	4.60E-07	1.16	7.17E-07	1.14	7.26E-07	1.16				
1987	1.73E-08	1.16	2.69E-08	1.14	2.73E-08	1.16				
1988 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr.

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.45E-01	2.46	3.260E-02	2.28	7.07E-02	2.31	3.11E-02	2.28	8.81E-02	2.34
1945	3.26E+01	1.71	3.790E+01	1.59	1.70E+01	1.56	2.58E+01	1.56	2.06E+01	1.59
1946	3.65E+01	1.65	6.640E+01	1.56	1.99E+01	1.51	4.34E+01	1.54	2.38E+01	1.54
1947	3.01E+01	1.66	4.050E+01	1.55	1.59E+01	1.51	2.71E+01	1.52	1.92E+01	1.54
1948	9.68E+00	1.79	1.320E+01	1.69	5.15E+00	1.63	8.87E+00	1.66	6.21E+00	1.67
1949	3.01E-01	1.68	3.420E-01	1.55	1.57E-01	1.52	2.32E-01	1.52	1.90E-01	1.56
1950	4.76E-01	1.67	6.200E-01	1.55	2.51E-01	1.51	4.16E-01	1.53	3.03E-01	1.55
1951	8.23E-01	1.68	9.560E-01	1.54	4.30E-01	1.52	6.49E-01	1.52	5.21E-01	1.55
1952	8.42E-01	1.56	5.290E-01	1.51	3.53E+00	1.54	4.44E-01	1.48	1.04E+00	1.50
1953	1.62E+00	1.74	8.180E-01	1.79	1.20E+01	1.86	8.22E-01	1.80	2.87E+00	1.82
1954	1.48E+00	1.54	5.870E-01	1.47	7.05E+00	1.54	5.84E-01	1.48	1.97E+00	1.50
1955	1.62E+00	1.55	6.280E-01	1.48	7.34E+00	1.54	6.24E-01	1.48	2.09E+00	1.50
1956	1.17E+00	1.49	2.240E+00	1.52	6.85E+00	1.54	4.07E+00	1.59	1.85E+00	1.51
1957	1.69E+00	1.47	4.110E+00	1.50	8.21E+00	1.52	7.77E+00	1.58	2.44E+00	1.48
1958	1.71E+00	1.48	4.790E+00	1.52	6.64E+00	1.53	9.26E+00	1.59	2.22E+00	1.48
1959	1.77E+00	1.49	5.670E+00	1.53	5.15E+00	1.49	1.11E+01	1.59	2.04E+00	1.47
1960	1.91E+00	1.50	6.440E+00	1.54	4.74E+00	1.50	1.27E+01	1.60	2.07E+00	1.48
1961	2.17E+00	1.48	6.500E+00	1.52	7.45E+00	1.50	1.27E+01	1.59	2.67E+00	1.47
1962	6.62E+00	1.49	2.020E+01	1.53	2.16E+01	1.52	3.95E+01	1.60	7.98E+00	1.48
1963	6.36E+00	1.50	1.820E+01	1.55	2.38E+01	1.53	3.52E+01	1.62	8.13E+00	1.49
1964	7.49E+00	1.49	2.060E+01	1.54	3.02E+01	1.53	3.96E+01	1.61	9.89E+00	1.49
1965	7.35E+00	1.49	1.940E+01	1.53	3.16E+01	1.54	3.71E+01	1.60	1.00E+01	1.49
1966	6.76E+00	1.54	1.400E+01	1.56	3.85E+01	1.64	2.57E+01	1.64	1.06E+01	1.58
1967	3.94E+00	1.55	1.610E+01	1.54	3.21E+00	1.55	3.23E+01	1.61	3.28E+00	1.55
1968	3.79E+00	1.55	1.550E+01	1.55	3.08E+00	1.55	3.11E+01	1.61	3.16E+00	1.55
1969	2.69E+00	1.55	1.090E+01	1.54	2.18E+00	1.54	2.20E+01	1.61	2.24E+00	1.55
1970	5.92E-01	1.77	2.410E+00	1.77	4.81E-01	1.77	4.84E+00	1.83	4.93E-01	1.78
1971	1.08E+00	1.65	4.420E+00	1.65	8.82E-01	1.65	8.88E+00	1.71	9.03E-01	1.65
1972	1.10E-01	2.07	4.490E-01	2.07	8.97E-02	2.07	9.03E-01	2.12	9.19E-02	2.08
1973 through 1983 all values are 0.00 Reactors Shut Down										
1984	3.80E-03	1.44	1.550E-02	1.43	3.09E-03	1.43	3.11E-02	1.51	3.16E-03	1.44
1985	3.80E-03	1.44	1.550E-02	1.43	3.09E-03	1.43	3.11E-02	1.51	3.16E-03	1.44
1986	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1987	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1988	3.80E-06	1.44	1.550E-05	1.43	3.09E-06	1.43	3.11E-05	1.51	3.16E-06	1.44
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.880E-02	2.27	2.15E-02	2.27	2.20E-02	2.29	1.80E-02	2.29	1.600E-02	2.28
1945	6.800E+00	1.49	8.49E+00	1.49	9.03E+00	1.50	7.29E+00	1.50	6.520E+00	1.49
1946	9.560E+00	1.47	1.23E+01	1.46	1.32E+01	1.47	1.06E+01	1.47	9.520E+00	1.47
1947	6.710E+00	1.46	8.45E+00	1.46	9.03E+00	1.46	7.28E+00	1.46	6.510E+00	1.46
1948	2.210E+00	1.56	2.78E+00	1.56	2.97E+00	1.57	2.39E+00	1.57	2.140E+00	1.57
1949	6.190E-02	1.46	7.72E-02	1.46	8.20E-02	1.47	6.62E-02	1.47	5.920E-02	1.47
1950	1.050E-01	1.46	1.31E-01	1.46	1.40E-01	1.47	1.13E-01	1.47	1.010E-01	1.46
1951	1.710E-01	1.46	2.14E-01	1.46	2.27E-01	1.47	1.83E-01	1.46	1.640E-01	1.46
1952	2.000E-01	1.47	2.48E-01	1.47	2.69E-01	1.48	2.20E-01	1.48	1.960E-01	1.47
1953	4.720E-01	1.79	5.92E-01	1.80	6.49E-01	1.81	5.33E-01	1.81	4.760E-01	1.81
1954	3.390E-01	1.48	4.17E-01	1.48	4.52E-01	1.49	3.71E-01	1.49	3.310E-01	1.49
1955	3.630E-01	1.48	4.45E-01	1.48	4.82E-01	1.49	3.95E-01	1.49	3.520E-01	1.49
1956	5.950E-01	1.48	8.53E-01	1.49	9.57E-01	1.49	7.66E-01	1.49	6.790E-01	1.48
1957	9.790E-01	1.47	1.44E+00	1.48	1.62E+00	1.48	1.29E+00	1.48	1.140E+00	1.48
1958	1.070E+00	1.49	1.60E+00	1.50	1.80E+00	1.50	1.43E+00	1.50	1.270E+00	1.50
1959	1.200E+00	1.50	1.81E+00	1.51	2.04E+00	1.51	1.62E+00	1.50	1.430E+00	1.51
1960	1.330E+00	1.51	2.02E+00	1.52	2.29E+00	1.52	1.81E+00	1.52	1.600E+00	1.52
1961	1.410E+00	1.49	2.12E+00	1.50	2.39E+00	1.50	1.89E+00	1.50	1.680E+00	1.50
1962	4.360E+00	1.50	6.55E+00	1.51	7.39E+00	1.51	5.86E+00	1.51	5.190E+00	1.51
1963	4.030E+00	1.51	6.02E+00	1.52	6.79E+00	1.52	5.39E+00	1.52	4.770E+00	1.52
1964	4.640E+00	1.51	6.90E+00	1.51	7.77E+00	1.52	6.17E+00	1.51	5.470E+00	1.51
1965	4.450E+00	1.49	6.59E+00	1.50	7.42E+00	1.50	5.90E+00	1.50	5.230E+00	1.50
1966	3.610E+00	1.52	5.21E+00	1.53	5.85E+00	1.53	4.68E+00	1.53	4.150E+00	1.52
1967	3.100E+00	1.54	4.80E+00	1.54	5.44E+00	1.54	4.29E+00	1.54	3.790E+00	1.54
1968	2.990E+00	1.54	4.62E+00	1.54	5.23E+00	1.54	4.12E+00	1.54	3.650E+00	1.54
1969	2.110E+00	1.53	3.27E+00	1.54	3.70E+00	1.54	2.92E+00	1.54	2.580E+00	1.54
1970	4.660E-01	1.76	7.21E-01	1.77	8.16E-01	1.77	6.43E-01	1.76	5.690E-01	1.76
1971	8.540E-01	1.64	1.32E+00	1.64	1.49E+00	1.64	1.18E+00	1.64	1.040E+00	1.64
1972	8.690E-02	2.06	1.34E-01	2.07	1.52E-01	2.07	1.20E-01	2.07	1.060E-01	2.07
All years from 1973 through 1983 have values of 0.00										
1984	2.990E-03	1.42	4.62E-03	1.43	5.23E-03	1.43	4.13E-03	1.42	3.650E-03	1.43
1985	2.990E-03	1.42	4.62E-03	1.43	5.23E-03	1.43	4.13E-03	1.42	3.650E-03	1.43
1986	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1987	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1988	2.990E-06	1.42	4.62E-06	1.43	5.23E-06	1.43	4.13E-06	1.42	3.650E-06	1.43
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.96E-02	2.28	2.82E-02	2.28	1.01E-02	2.27	1.500E-02	2.28	1.07E-02	2.28
1945	7.86E+00	1.50	9.74E+00	1.49	3.62E+00	1.49	6.140E+00	1.49	4.35E+00	1.49
1946	1.14E+01	1.48	1.35E+01	1.46	5.08E+00	1.47	8.990E+00	1.47	6.35E+00	1.47
1947	7.84E+00	1.47	9.56E+00	1.46	3.57E+00	1.46	6.140E+00	1.46	4.34E+00	1.46
1948	2.58E+00	1.57	3.14E+00	1.56	1.17E+00	1.56	2.020E+00	1.57	1.43E+00	1.57
1949	7.14E-02	1.47	8.87E-02	1.46	3.30E-02	1.46	5.580E-02	1.47	3.95E-02	1.47
1950	1.22E-01	1.47	1.49E-01	1.46	5.56E-02	1.46	9.530E-02	1.46	6.74E-02	1.46
1951	1.98E-01	1.47	2.45E-01	1.46	9.12E-02	1.46	1.540E-01	1.46	1.09E-01	1.46
1952	2.40E-01	1.48	2.83E-01	1.46	1.17E-01	1.47	1.800E-01	1.47	1.32E-01	1.47
1953	5.86E-01	1.81	6.59E-01	1.79	2.89E-01	1.80	4.310E-01	1.81	3.22E-01	1.81
1954	4.07E-01	1.49	4.81E-01	1.48	2.02E-01	1.48	3.010E-01	1.48	2.23E-01	1.49
1955	4.33E-01	1.49	5.15E-01	1.48	2.16E-01	1.48	3.210E-01	1.48	2.37E-01	1.49
1956	8.14E-01	1.49	7.83E-01	1.48	3.45E-01	1.48	6.360E-01	1.49	4.55E-01	1.48
1957	1.36E+00	1.48	1.27E+00	1.47	5.59E-01	1.47	1.080E+00	1.48	7.64E-01	1.48
1958	1.50E+00	1.50	1.38E+00	1.49	6.06E-01	1.49	1.200E+00	1.50	8.46E-01	1.50
1959	1.69E+00	1.51	1.53E+00	1.50	6.71E-01	1.50	1.360E+00	1.51	9.56E-01	1.50
1960	1.89E+00	1.53	1.70E+00	1.51	7.45E-01	1.51	1.520E+00	1.52	1.07E+00	1.52
1961	1.99E+00	1.51	1.81E+00	1.49	7.95E-01	1.49	1.590E+00	1.51	1.12E+00	1.50
1962	6.15E+00	1.52	5.59E+00	1.50	2.45E+00	1.50	4.920E+00	1.51	3.47E+00	1.51
1963	5.66E+00	1.53	5.19E+00	1.51	2.28E+00	1.51	4.520E+00	1.53	3.19E+00	1.52
1964	6.50E+00	1.52	5.99E+00	1.50	2.63E+00	1.50	5.170E+00	1.52	3.66E+00	1.51
1965	6.22E+00	1.51	5.75E+00	1.49	2.53E+00	1.49	4.940E+00	1.51	3.50E+00	1.50
1966	4.97E+00	1.53	4.73E+00	1.52	2.09E+00	1.52	3.890E+00	1.53	2.78E+00	1.52
1967	4.46E+00	1.55	3.93E+00	1.53	1.71E+00	1.54	3.620E+00	1.54	2.53E+00	1.54
1968	4.29E+00	1.55	3.78E+00	1.54	1.65E+00	1.54	3.480E+00	1.54	2.43E+00	1.54
1969	3.04E+00	1.55	2.68E+00	1.53	1.17E+00	1.53	2.460E+00	1.54	1.72E+00	1.53
1970	6.70E-01	1.77	5.90E-01	1.76	2.57E-01	1.76	5.430E-01	1.77	3.79E-01	1.76
1971	1.23E+00	1.65	1.08E+00	1.64	4.72E-01	1.64	9.960E-01	1.64	6.95E-01	1.64
1972	1.25E-01	2.07	1.10E-01	2.06	4.80E-02	2.06	1.010E-01	2.07	7.07E-02	2.06
All years from 1973 through 1983 have values of 0.00										
1984	4.30E-03	1.44	3.78E-03	1.42	1.65E-03	1.42	3.490E-03	1.43	2.43E-03	1.42
1985	4.30E-03	1.44	3.78E-03	1.42	1.65E-03	1.42	3.490E-03	1.43	2.43E-03	1.42
1986	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1987	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1988	4.30E-06	1.44	3.78E-06	1.42	1.65E-06	1.42	3.490E-06	1.43	2.43E-06	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.21E-02	2.28	1.14E-02	2.27	1.900E-02	2.28	2.43E-02	2.27	9.10E-02	2.28
1945	4.89E+00	1.50	3.63E+00	1.49	6.440E+00	1.50	1.01E+01	1.49	2.60E+01	1.51
1946	7.11E+00	1.48	4.87E+00	1.46	8.830E+00	1.47	1.49E+01	1.47	3.32E+01	1.48
1947	4.88E+00	1.47	3.53E+00	1.46	6.300E+00	1.46	1.01E+01	1.46	2.49E+01	1.47
1948	1.60E+00	1.57	1.16E+00	1.56	2.070E+00	1.57	3.33E+00	1.57	8.14E+00	1.58
1949	4.44E-02	1.47	3.31E-02	1.46	5.870E-02	1.47	9.19E-02	1.46	2.38E-01	1.48
1950	7.57E-02	1.47	5.51E-02	1.46	9.830E-02	1.47	1.57E-01	1.46	3.90E-01	1.47
1951	1.23E-01	1.47	9.14E-02	1.46	1.620E-01	1.47	2.54E-01	1.46	6.54E-01	1.47
1952	1.48E-01	1.47	1.48E-01	1.48	2.860E-01	1.48	3.12E-01	1.47	6.74E-01	1.47
1953	3.58E-01	1.81	3.95E-01	1.81	7.900E-01	1.82	7.68E-01	1.80	1.41E+00	1.76
1954	2.49E-01	1.49	2.67E-01	1.49	5.190E-01	1.49	5.27E-01	1.48	1.14E+00	1.47
1955	2.66E-01	1.49	2.84E-01	1.49	5.500E-01	1.49	5.61E-01	1.48	1.24E+00	1.47
1956	5.05E-01	1.49	3.71E-01	1.47	7.690E-01	1.48	1.13E+00	1.49	1.38E+00	1.48
1957	8.46E-01	1.48	5.63E-01	1.46	1.180E+00	1.46	1.90E+00	1.48	2.15E+00	1.47
1958	9.37E-01	1.50	5.81E-01	1.47	1.220E+00	1.48	2.11E+00	1.50	2.28E+00	1.48
1959	1.06E+00	1.51	6.14E-01	1.48	1.300E+00	1.49	2.39E+00	1.51	2.48E+00	1.49
1960	1.18E+00	1.52	6.68E-01	1.50	1.420E+00	1.50	2.68E+00	1.52	2.73E+00	1.51
1961	1.24E+00	1.51	7.45E-01	1.48	1.570E+00	1.48	2.80E+00	1.51	2.97E+00	1.49
1962	3.84E+00	1.51	2.28E+00	1.48	4.810E+00	1.49	8.67E+00	1.51	9.12E+00	1.50
1963	3.53E+00	1.53	2.17E+00	1.49	4.570E+00	1.50	7.96E+00	1.53	8.56E+00	1.51
1964	4.05E+00	1.52	2.54E+00	1.48	5.340E+00	1.49	9.12E+00	1.52	9.94E+00	1.50
1965	3.87E+00	1.51	2.47E+00	1.48	5.190E+00	1.48	8.71E+00	1.51	9.61E+00	1.49
1966	3.08E+00	1.53	2.21E+00	1.52	4.590E+00	1.52	6.88E+00	1.53	8.21E+00	1.52
1967	2.80E+00	1.55	1.44E+00	1.53	3.070E+00	1.54	6.36E+00	1.54	6.12E+00	1.54
1968	2.69E+00	1.55	1.38E+00	1.54	2.960E+00	1.54	6.12E+00	1.55	5.89E+00	1.54
1969	1.90E+00	1.54	9.77E-01	1.53	2.090E+00	1.54	4.33E+00	1.54	4.17E+00	1.54
1970	4.19E-01	1.77	2.15E-01	1.76	4.610E-01	1.77	9.55E-01	1.77	9.19E-01	1.77
1971	7.69E-01	1.65	3.95E-01	1.63	8.450E-01	1.64	1.75E+00	1.64	1.68E+00	1.64
1972	7.82E-02	2.07	4.02E-02	2.06	8.600E-02	2.07	1.78E-01	2.07	1.71E-01	2.07
All years from 1973 through 1983 have values of 0.00										
1984	2.69E-03	1.43	1.38E-03	1.42	2.960E-03	1.43	6.12E-03	1.43	5.90E-03	1.43
1985	2.69E-03	1.43	1.38E-03	1.42	2.960E-03	1.43	6.12E-03	1.43	5.90E-03	1.43
1986	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1987	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1988	2.69E-06	1.43	1.38E-06	1.42	2.960E-06	1.43	6.12E-06	1.43	5.90E-06	1.43
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.21E-02	2.29	7.150E-02	2.34	1.57E-02	2.27	1.19E-02	2.27	1.11E-02	2.27
1945	8.70E+00	1.51	2.030E+01	1.55	5.19E+00	1.49	4.84E+00	1.49	4.61E+00	1.49
1946	1.25E+01	1.49	2.590E+01	1.50	7.07E+00	1.46	7.06E+00	1.47	6.77E+00	1.47
1947	8.65E+00	1.48	1.950E+01	1.51	5.07E+00	1.46	4.83E+00	1.46	4.61E+00	1.46
1948	2.84E+00	1.58	6.350E+00	1.61	1.66E+00	1.56	1.59E+00	1.57	1.52E+00	1.57
1949	7.91E-02	1.48	1.860E-01	1.52	4.73E-02	1.46	4.39E-02	1.46	4.19E-02	1.46
1950	1.34E-01	1.48	3.050E-01	1.51	7.91E-02	1.46	7.50E-02	1.46	7.16E-02	1.46
1951	2.19E-01	1.48	5.120E-01	1.52	1.31E-01	1.46	1.22E-01	1.46	1.16E-01	1.46
1952	2.63E-01	1.48	5.760E-01	1.48	2.51E-01	1.48	1.59E-01	1.47	1.47E-01	1.47
1953	6.37E-01	1.81	1.270E+00	1.77	7.08E-01	1.82	4.02E-01	1.81	3.70E-01	1.81
1954	4.45E-01	1.49	9.940E-01	1.48	4.60E-01	1.49	2.73E-01	1.49	2.51E-01	1.48
1955	4.75E-01	1.49	1.070E+00	1.49	4.86E-01	1.49	2.90E-01	1.49	2.67E-01	1.48
1956	9.20E-01	1.50	1.210E+00	1.48	6.52E-01	1.47	5.46E-01	1.48	5.26E-01	1.48
1957	1.55E+00	1.49	1.870E+00	1.47	9.80E-01	1.46	9.08E-01	1.47	8.82E-01	1.47
1958	1.72E+00	1.51	1.970E+00	1.49	1.00E+00	1.47	9.99E-01	1.49	9.76E-01	1.49
1959	1.95E+00	1.52	2.120E+00	1.50	1.05E+00	1.48	1.12E+00	1.50	1.10E+00	1.50
1960	2.18E+00	1.54	2.330E+00	1.51	1.14E+00	1.50	1.25E+00	1.52	1.23E+00	1.51
1961	2.28E+00	1.52	2.550E+00	1.49	1.28E+00	1.48	1.32E+00	1.50	1.29E+00	1.50
1962	7.05E+00	1.53	7.820E+00	1.50	3.91E+00	1.48	4.08E+00	1.51	4.00E+00	1.50
1963	6.48E+00	1.54	7.370E+00	1.51	3.74E+00	1.49	3.76E+00	1.52	3.68E+00	1.52
1964	7.42E+00	1.53	8.580E+00	1.50	4.39E+00	1.48	4.32E+00	1.51	4.22E+00	1.51
1965	7.09E+00	1.52	8.320E+00	1.49	4.29E+00	1.48	4.14E+00	1.50	4.03E+00	1.50
1966	5.62E+00	1.54	7.200E+00	1.52	3.87E+00	1.52	3.33E+00	1.52	3.21E+00	1.52
1967	5.16E+00	1.56	5.150E+00	1.55	2.41E+00	1.54	2.94E+00	1.54	2.92E+00	1.53
1968	4.96E+00	1.56	4.960E+00	1.55	2.32E+00	1.54	2.83E+00	1.54	2.81E+00	1.53
1969	3.51E+00	1.56	3.510E+00	1.54	1.64E+00	1.54	2.00E+00	1.54	1.98E+00	1.53
1970	7.74E-01	1.78	7.730E-01	1.77	3.62E-01	1.76	4.41E-01	1.76	4.38E-01	1.76
1971	1.42E+00	1.66	1.420E+00	1.65	6.64E-01	1.64	8.08E-01	1.64	8.02E-01	1.63
1972	1.44E-01	2.08	1.440E-01	2.07	6.75E-02	2.07	8.22E-02	2.07	8.16E-02	2.06
All years from 1973 through 1983 have values of 0.00										
1984	4.97E-03	1.45	4.960E-03	1.43	2.32E-03	1.42	2.83E-03	1.42	2.81E-03	1.42
1985	4.97E-03	1.45	4.960E-03	1.43	2.32E-03	1.42	2.83E-03	1.42	2.81E-03	1.42
1986	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1987	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1988	4.97E-06	1.45	4.960E-06	1.43	2.32E-06	1.42	2.83E-06	1.42	2.81E-06	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.340E-02	2.28	6.42E-03	2.27	1.62E-02	2.28	3.43E-02	2.28	1.540E-02	2.27
1945	5.200E+00	1.49	2.15E+00	1.49	6.67E+00	1.49	1.25E+01	1.50	6.850E+00	1.49
1946	7.490E+00	1.47	2.95E+00	1.46	9.78E+00	1.47	1.77E+01	1.48	1.030E+01	1.47
1947	5.170E+00	1.46	2.11E+00	1.45	6.67E+00	1.46	1.24E+01	1.47	6.900E+00	1.46
1948	1.700E+00	1.57	6.91E-01	1.56	2.19E+00	1.57	4.07E+00	1.57	2.270E+00	1.57
1949	4.730E-02	1.47	1.96E-02	1.46	6.06E-02	1.46	1.14E-01	1.47	6.220E-02	1.46
1950	8.040E-02	1.47	3.29E-02	1.46	1.04E-01	1.46	1.93E-01	1.47	1.070E-01	1.46
1951	1.310E-01	1.46	5.42E-02	1.46	1.68E-01	1.46	3.16E-01	1.47	1.720E-01	1.46
1952	1.830E-01	1.48	9.57E-02	1.48	2.07E-01	1.47	4.59E-01	1.47	2.010E-01	1.47
1953	4.740E-01	1.82	2.64E-01	1.82	5.10E-01	1.81	1.20E+00	1.81	4.880E-01	1.80
1954	3.190E-01	1.49	1.74E-01	1.49	3.50E-01	1.48	8.08E-01	1.49	3.350E-01	1.48
1955	3.390E-01	1.49	1.84E-01	1.49	3.73E-01	1.48	8.58E-01	1.49	3.560E-01	1.48
1956	5.960E-01	1.48	2.54E-01	1.47	7.33E-01	1.48	1.39E+00	1.49	7.680E-01	1.48
1957	9.750E-01	1.48	3.87E-01	1.46	1.23E+00	1.47	2.23E+00	1.48	1.310E+00	1.47
1958	1.060E+00	1.50	4.01E-01	1.47	1.37E+00	1.50	2.40E+00	1.51	1.470E+00	1.50
1959	1.180E+00	1.51	4.25E-01	1.48	1.55E+00	1.50	2.63E+00	1.52	1.680E+00	1.50
1960	1.310E+00	1.52	4.63E-01	1.49	1.73E+00	1.51	2.91E+00	1.54	1.890E+00	1.51
1961	1.400E+00	1.50	5.15E-01	1.47	1.81E+00	1.50	3.13E+00	1.51	1.960E+00	1.50
1962	4.310E+00	1.51	1.58E+00	1.48	5.60E+00	1.51	9.64E+00	1.52	6.070E+00	1.50
1963	3.990E+00	1.52	1.50E+00	1.49	5.15E+00	1.52	9.00E+00	1.53	5.550E+00	1.52
1964	4.600E+00	1.51	1.75E+00	1.48	5.90E+00	1.51	1.04E+01	1.52	6.350E+00	1.51
1965	4.420E+00	1.50	1.70E+00	1.48	5.64E+00	1.50	1.00E+01	1.51	6.050E+00	1.50
1966	3.620E+00	1.52	1.51E+00	1.52	4.48E+00	1.52	8.39E+00	1.53	4.710E+00	1.52
1967	3.040E+00	1.55	1.00E+00	1.53	4.10E+00	1.53	6.64E+00	1.57	4.510E+00	1.53
1968	2.930E+00	1.55	9.62E-01	1.53	3.94E+00	1.54	6.39E+00	1.57	4.340E+00	1.53
1969	2.070E+00	1.54	6.80E-01	1.53	2.79E+00	1.53	4.52E+00	1.57	3.070E+00	1.53
1970	4.570E-01	1.77	1.50E-01	1.76	6.15E-01	1.76	9.97E-01	1.79	6.770E-01	1.76
1971	8.370E-01	1.65	2.75E-01	1.63	1.13E+00	1.64	1.83E+00	1.67	1.240E+00	1.63
1972	8.510E-02	2.07	2.80E-02	2.06	1.15E-01	2.06	1.86E-01	2.09	1.260E-01	2.06
All years from 1973 through 1983 have values of 0.00										
1984	2.930E-03	1.43	9.62E-04	1.41	3.94E-03	1.42	6.40E-03	1.46	4.350E-03	1.42
1985	2.930E-03	1.43	9.62E-04	1.41	3.94E-03	1.42	6.40E-03	1.46	4.350E-03	1.42
1986	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1987	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1988	2.930E-06	1.43	9.62E-07	1.41	3.94E-06	1.42	6.40E-06	1.46	4.350E-06	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.83E-02	2.28	2.67E-02	2.27	1.91E-02	2.29	2.610E-02	2.28	3.99E-02	2.29
1945	6.91E+00	1.49	7.51E+00	1.50	5.57E+00	1.51	8.320E+00	1.49	2.95E+01	1.51
1946	9.86E+00	1.47	9.57E+00	1.46	7.20E+00	1.48	1.120E+01	1.46	4.90E+01	1.49
1947	6.85E+00	1.46	7.19E+00	1.46	5.36E+00	1.47	8.100E+00	1.46	3.09E+01	1.48
1948	2.25E+00	1.57	2.35E+00	1.57	1.75E+00	1.58	2.650E+00	1.56	1.01E+01	1.61
1949	6.29E-02	1.47	6.88E-02	1.47	5.10E-02	1.48	7.600E-02	1.47	2.67E-01	1.48
1950	1.07E-01	1.46	1.13E-01	1.47	8.39E-02	1.48	1.260E-01	1.46	4.75E-01	1.48
1951	1.74E-01	1.46	1.89E-01	1.47	1.40E-01	1.48	2.100E-01	1.46	7.44E-01	1.48
1952	2.50E-01	1.47	2.78E-01	1.48	3.04E-01	1.50	4.780E-01	1.50	5.18E-01	1.47
1953	6.51E-01	1.81	7.01E-01	1.81	8.76E-01	1.84	1.400E+00	1.83	9.60E-01	1.79
1954	4.38E-01	1.48	4.99E-01	1.49	5.69E-01	1.51	8.940E-01	1.50	6.96E-01	1.47
1955	4.65E-01	1.48	5.33E-01	1.49	6.01E-01	1.51	9.410E-01	1.50	7.46E-01	1.47
1956	7.77E-01	1.48	6.26E-01	1.48	6.78E-01	1.49	1.160E+00	1.48	6.40E+00	1.54
1957	1.26E+00	1.47	9.40E-01	1.46	9.59E-01	1.47	1.670E+00	1.46	1.24E+01	1.51
1958	1.36E+00	1.49	9.65E-01	1.47	9.33E-01	1.48	1.660E+00	1.47	1.49E+01	1.53
1959	1.50E+00	1.50	1.01E+00	1.48	9.25E-01	1.48	1.680E+00	1.47	1.80E+01	1.52
1960	1.66E+00	1.52	1.10E+00	1.49	9.79E-01	1.49	1.790E+00	1.49	2.06E+01	1.53
1961	1.78E+00	1.50	1.23E+00	1.47	1.16E+00	1.47	2.090E+00	1.47	2.04E+01	1.53
1962	5.48E+00	1.51	3.77E+00	1.48	3.52E+00	1.48	6.340E+00	1.48	6.36E+01	1.53
1963	5.10E+00	1.52	3.60E+00	1.49	3.45E+00	1.49	6.160E+00	1.48	5.66E+01	1.56
1964	5.88E+00	1.51	4.22E+00	1.48	4.12E+00	1.48	7.290E+00	1.48	6.35E+01	1.55
1965	5.66E+00	1.50	4.12E+00	1.47	4.08E+00	1.48	7.190E+00	1.47	5.94E+01	1.54
1966	4.70E+00	1.52	3.71E+00	1.52	3.97E+00	1.55	6.820E+00	1.53	4.05E+01	1.58
1967	3.81E+00	1.55	2.34E+00	1.52	1.87E+00	1.55	3.570E+00	1.53	5.25E+01	1.54
1968	3.66E+00	1.55	2.25E+00	1.53	1.80E+00	1.55	3.440E+00	1.54	5.05E+01	1.54
1969	2.59E+00	1.54	1.59E+00	1.52	1.28E+00	1.55	2.430E+00	1.53	3.57E+01	1.53
1970	5.72E-01	1.77	3.51E-01	1.75	2.81E-01	1.77	5.360E-01	1.76	7.87E+00	1.76
1971	1.05E+00	1.65	6.44E-01	1.63	5.15E-01	1.65	9.830E-01	1.63	1.44E+01	1.64
1972	1.07E-01	2.07	6.55E-02	2.05	5.24E-02	2.07	1.000E-01	2.06	1.47E+00	2.06
All years from 1973 through 1983 have values of 0.00										
1984	3.67E-03	1.43	2.25E-03	1.41	1.80E-03	1.44	3.440E-03	1.42	5.05E-02	1.42
1985	3.67E-03	1.43	2.25E-03	1.41	1.80E-03	1.44	3.440E-03	1.42	5.05E-02	1.42
1986	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1987	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1988	3.67E-06	1.43	2.25E-06	1.41	1.80E-06	1.44	3.440E-06	1.42	5.05E-05	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-13. Nuclide Ce/Pr144, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	1.96E-02	2.29	4.13E-02	2.28	1.450E-01	2.46				
1945	5.82E+00	1.51	2.58E+01	1.51	3.260E+01	1.71				
1946	7.57E+00	1.47	4.17E+01	1.49	3.650E+01	1.65				
1947	5.61E+00	1.47	2.67E+01	1.48	3.010E+01	1.66				
1948	1.83E+00	1.58	8.78E+00	1.60	9.680E+00	1.79				
1949	5.32E-02	1.48	2.34E-01	1.48	3.010E-01	1.68				
1950	8.77E-02	1.47	4.12E-01	1.48	4.760E-01	1.67				
1951	1.47E-01	1.48	6.50E-01	1.48	8.230E-01	1.68				
1952	3.36E-01	1.49	5.04E-01	1.47	8.420E-01	1.56				
1953	9.82E-01	1.83	9.94E-01	1.79	1.620E+00	1.74				
1954	6.30E-01	1.50	7.20E-01	1.48	1.480E+00	1.54				
1955	6.65E-01	1.50	7.72E-01	1.48	1.620E+00	1.55				
1956	7.53E-01	1.49	4.37E+00	1.54	1.170E+00	1.49				
1957	1.06E+00	1.46	8.29E+00	1.52	1.690E+00	1.47				
1958	1.03E+00	1.47	9.85E+00	1.54	1.710E+00	1.48				
1959	1.01E+00	1.47	1.18E+01	1.54	1.770E+00	1.49				
1960	1.07E+00	1.49	1.35E+01	1.55	1.910E+00	1.50				
1961	1.28E+00	1.47	1.34E+01	1.54	2.170E+00	1.48				
1962	3.86E+00	1.48	4.20E+01	1.55	6.620E+00	1.49				
1963	3.80E+00	1.49	3.75E+01	1.57	6.360E+00	1.50				
1964	4.53E+00	1.48	4.21E+01	1.56	7.490E+00	1.49				
1965	4.50E+00	1.48	3.95E+01	1.55	7.350E+00	1.49				
1966	4.40E+00	1.54	2.75E+01	1.59	6.760E+00	1.54				
1967	2.03E+00	1.54	3.42E+01	1.55	3.940E+00	1.55				
1968	1.95E+00	1.55	3.29E+01	1.56	3.790E+00	1.55				
1969	1.38E+00	1.54	2.33E+01	1.55	2.690E+00	1.55				
1970	3.04E-01	1.77	5.13E+00	1.78	5.920E-01	1.77				
1971	5.57E-01	1.64	9.40E+00	1.65	1.080E+00	1.65				
1972	5.67E-02	2.07	9.56E-01	2.08	1.100E-01	2.07				
All years from 1973 through 1983 have values of 0.00										
1984	1.95E-03	1.43	3.29E-02	1.44	3.800E-03	1.44				
1985	1.95E-03	1.43	3.29E-02	1.44	3.800E-03	1.44				
1986	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1987	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1988	1.95E-06	1.43	3.29E-05	1.44	3.800E-06	1.44				
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-14. Nuclide Cs/Ba137, Bq/yr.

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	4.18E-03	2.46	9.380E-04	2.28	2.03E-03	2.31	8.95E-04	2.28	2.53E-03	2.34
1945	1.10E+00	1.72	1.280E+00	1.59	5.74E-01	1.56	8.67E-01	1.56	6.96E-01	1.60
1946	1.36E+00	1.66	2.350E+00	1.56	7.37E-01	1.52	1.54E+00	1.54	8.82E-01	1.55
1947	1.11E+00	1.66	1.480E+00	1.55	5.85E-01	1.51	9.89E-01	1.52	7.07E-01	1.54
1948	3.81E-01	1.79	5.200E-01	1.69	2.03E-01	1.63	3.49E-01	1.66	2.44E-01	1.67
1949	1.25E-02	1.69	1.320E-02	1.55	6.45E-03	1.53	9.03E-03	1.52	7.86E-03	1.56
1950	2.00E-02	1.67	2.610E-02	1.55	1.06E-02	1.52	1.75E-02	1.52	1.28E-02	1.55
1951	3.03E-02	1.67	3.570E-02	1.55	1.58E-02	1.52	2.42E-02	1.52	1.92E-02	1.55
1952	3.20E-02	1.56	2.000E-02	1.51	1.37E-01	1.54	1.69E-02	1.48	4.02E-02	1.50
1953	3.57E-02	1.52	1.620E-02	1.49	2.21E-01	1.54	1.62E-02	1.50	5.59E-02	1.52
1954	5.24E-02	1.54	2.150E-02	1.48	2.68E-01	1.54	2.14E-02	1.48	7.26E-02	1.51
1955	6.20E-02	1.55	2.510E-02	1.49	3.08E-01	1.55	2.50E-02	1.49	8.45E-02	1.52
1956	4.41E-02	1.49	8.510E-02	1.52	2.56E-01	1.55	1.55E-01	1.60	6.94E-02	1.51
1957	6.03E-02	1.47	1.470E-01	1.50	2.93E-01	1.52	2.77E-01	1.58	8.69E-02	1.48
1958	5.84E-02	1.48	1.620E-01	1.52	2.33E-01	1.53	3.12E-01	1.59	7.67E-02	1.48
1959	6.50E-02	1.48	1.970E-01	1.52	2.18E-01	1.50	3.84E-01	1.59	7.91E-02	1.47
1960	6.93E-02	1.50	2.260E-01	1.53	1.92E-01	1.50	4.44E-01	1.60	7.84E-02	1.48
1961	8.00E-02	1.48	2.280E-01	1.52	3.04E-01	1.51	4.40E-01	1.59	1.03E-01	1.47
1962	2.68E-02	1.49	8.440E-02	1.53	8.16E-02	1.51	1.65E-01	1.60	3.14E-02	1.48
1963	2.63E-02	1.50	7.810E-02	1.54	9.13E-02	1.53	1.52E-01	1.61	3.25E-02	1.49
1964	3.17E-02	1.49	8.310E-02	1.54	1.38E-01	1.53	1.59E-01	1.61	4.34E-02	1.49
1965	3.04E-02	1.49	8.510E-02	1.54	1.19E-01	1.53	1.64E-01	1.61	3.96E-02	1.49
1966	2.34E-02	1.51	6.020E-02	1.57	1.03E-01	1.58	1.15E-01	1.65	3.23E-02	1.53
1967	1.58E-02	1.55	6.430E-02	1.55	1.28E-02	1.55	1.29E-01	1.61	1.32E-02	1.55
1968	1.36E-02	1.55	5.540E-02	1.55	1.11E-02	1.55	1.11E-01	1.61	1.13E-02	1.55
1969	9.90E-03	1.55	4.030E-02	1.55	8.05E-03	1.55	8.10E-02	1.61	8.25E-03	1.55
1970	2.14E-03	1.78	8.710E-03	1.78	1.74E-03	1.78	1.75E-02	1.84	1.78E-03	1.79
1971	9.94E-03	1.63	4.050E-02	1.63	8.07E-03	1.63	8.13E-02	1.69	8.27E-03	1.63
1972	1.67E-03	2.04	6.810E-03	2.04	1.36E-03	2.04	1.37E-02	2.09	1.39E-03	2.04
All years from 1973 through 1982 have values of 0.00										
1983	1.10E-03	1.44	4.480E-03	1.43	8.95E-04	1.43	9.01E-03	1.51	9.17E-04	1.44
1984	1.52E-03	1.44	6.190E-03	1.43	1.23E-03	1.43	1.24E-02	1.51	1.27E-03	1.44
1985	3.80E-04	1.44	1.550E-03	1.43	3.09E-04	1.43	3.11E-03	1.51	3.16E-04	1.44
1986	3.30E-04	1.44	1.350E-03	1.43	2.69E-04	1.43	2.70E-03	1.51	2.75E-04	1.44
1987	1.52E-06	1.44	6.190E-06	1.43	1.23E-06	1.43	1.24E-05	1.51	1.27E-06	1.44
1988	3.04E-05	1.44	1.240E-04	1.43	2.47E-05	1.43	2.49E-04	1.51	2.53E-05	1.44
1989	4.94E-05	1.44	2.010E-04	1.43	4.01E-05	1.43	4.04E-04	1.51	4.11E-05	1.44
1990	2.62E-05	1.44	1.070E-04	1.43	2.13E-05	1.43	2.14E-04	1.51	2.18E-05	1.44
1991	1.56E-04	1.44	6.340E-04	1.43	1.27E-04	1.43	1.27E-03	1.51	1.30E-04	1.44
1992	8.74E-04	1.44	3.560E-03	1.43	7.10E-04	1.43	7.15E-03	1.51	7.27E-04	1.44
1993	6.84E-04	1.44	2.780E-03	1.43	5.56E-04	1.43	5.59E-03	1.51	5.69E-04	1.44
1994	2.51E-05	1.44	1.020E-04	1.43	2.04E-05	1.43	2.05E-04	1.51	2.09E-05	1.44
1995	2.47E-05	1.44	1.010E-04	1.43	2.01E-05	1.43	2.02E-04	1.51	2.06E-05	1.44
1996	2.28E-05	1.44	9.280E-05	1.43	1.85E-05	1.43	1.86E-04	1.51	1.90E-05	1.44
1997	3.65E-05	1.44	1.480E-04	1.43	2.96E-05	1.43	2.98E-04	1.51	3.04E-05	1.44
1998	8.36E-06	1.44	3.400E-05	1.43	6.79E-06	1.43	6.84E-05	1.51	6.96E-06	1.44
1999	3.23E-06	1.44	1.310E-05	1.43	2.62E-06	1.43	2.64E-05	1.51	2.69E-06	1.44
2000	6.84E-06	1.44	2.780E-05	1.43	5.56E-06	1.43	5.59E-05	1.51	5.69E-06	1.44
2001	5.70E-06	1.44	2.320E-05	1.43	4.63E-06	1.43	4.66E-05	1.51	4.74E-06	1.44

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	5.420E-04	2.28	6.19E-04	2.27	6.34E-04	2.29	5.17E-04	2.29	4.610E-04	2.28
1945	2.290E-01	1.49	2.86E-01	1.49	3.04E-01	1.50	2.46E-01	1.50	2.200E-01	1.50
1946	3.460E-01	1.47	4.43E-01	1.46	4.76E-01	1.47	3.83E-01	1.47	3.430E-01	1.47
1947	2.460E-01	1.46	3.10E-01	1.45	3.30E-01	1.46	2.66E-01	1.46	2.380E-01	1.46
1948	8.670E-02	1.56	1.09E-01	1.56	1.17E-01	1.57	9.41E-02	1.57	8.420E-02	1.57
1949	2.480E-03	1.47	3.08E-03	1.46	3.27E-03	1.47	2.64E-03	1.47	2.360E-03	1.47
1950	4.400E-03	1.46	5.54E-03	1.46	5.91E-03	1.47	4.76E-03	1.47	4.260E-03	1.46
1951	6.340E-03	1.46	7.92E-03	1.46	8.43E-03	1.47	6.80E-03	1.46	6.090E-03	1.46
1952	7.650E-03	1.47	9.51E-03	1.47	1.03E-02	1.48	8.42E-03	1.48	7.520E-03	1.47
1953	9.370E-03	1.50	1.17E-02	1.50	1.27E-02	1.51	1.05E-02	1.51	9.330E-03	1.51
1954	1.240E-02	1.48	1.53E-02	1.49	1.67E-02	1.50	1.37E-02	1.50	1.220E-02	1.49
1955	1.450E-02	1.49	1.79E-02	1.50	1.94E-02	1.51	1.59E-02	1.51	1.420E-02	1.50
1956	2.250E-02	1.48	3.23E-02	1.49	3.62E-02	1.49	2.90E-02	1.49	2.570E-02	1.49
1957	3.490E-02	1.47	5.13E-02	1.48	5.77E-02	1.48	4.60E-02	1.48	4.080E-02	1.48
1958	3.630E-02	1.49	5.41E-02	1.50	6.10E-02	1.50	4.84E-02	1.50	4.290E-02	1.50
1959	4.250E-02	1.49	6.39E-02	1.50	7.21E-02	1.50	5.72E-02	1.50	5.060E-02	1.50
1960	4.740E-02	1.51	7.17E-02	1.52	8.10E-02	1.52	6.41E-02	1.51	5.680E-02	1.51
1961	5.050E-02	1.49	7.54E-02	1.50	8.50E-02	1.50	6.75E-02	1.50	5.980E-02	1.50
1962	1.800E-02	1.51	2.71E-02	1.51	3.06E-02	1.51	2.42E-02	1.51	2.150E-02	1.51
1963	1.700E-02	1.51	2.55E-02	1.52	2.88E-02	1.52	2.29E-02	1.52	2.020E-02	1.52
1964	1.910E-02	1.50	2.83E-02	1.51	3.19E-02	1.51	2.54E-02	1.51	2.250E-02	1.51
1965	1.900E-02	1.50	2.84E-02	1.51	3.20E-02	1.51	2.54E-02	1.51	2.250E-02	1.51
1966	1.400E-02	1.53	2.07E-02	1.54	2.33E-02	1.54	1.85E-02	1.54	1.640E-02	1.54
1967	1.240E-02	1.54	1.92E-02	1.54	2.18E-02	1.54	1.72E-02	1.54	1.520E-02	1.54
1968	1.070E-02	1.54	1.66E-02	1.54	1.87E-02	1.54	1.48E-02	1.54	1.310E-02	1.54
1969	7.790E-03	1.54	1.21E-02	1.55	1.36E-02	1.54	1.08E-02	1.54	9.510E-03	1.54
1970	1.680E-03	1.77	2.60E-03	1.78	2.95E-03	1.78	2.32E-03	1.78	2.060E-03	1.78
1971	7.820E-03	1.62	1.21E-02	1.62	1.37E-02	1.62	1.08E-02	1.62	9.550E-03	1.62
1972	1.320E-03	2.03	2.03E-03	2.04	2.30E-03	2.04	1.82E-03	2.03	1.610E-03	2.04
All years from 1973 through 1982 have values of 0.00										
1983	8.670E-04	1.42	1.34E-03	1.43	1.52E-03	1.43	1.20E-03	1.42	1.060E-03	1.43
1984	1.200E-03	1.42	1.85E-03	1.43	2.09E-03	1.43	1.65E-03	1.42	1.460E-03	1.43
1985	2.990E-04	1.42	4.62E-04	1.43	5.23E-04	1.43	4.13E-04	1.42	3.650E-04	1.43
1986	2.600E-04	1.42	4.02E-04	1.43	4.55E-04	1.43	3.59E-04	1.42	3.170E-04	1.43
1987	1.200E-06	1.42	1.85E-06	1.43	2.09E-06	1.43	1.65E-06	1.42	1.460E-06	1.43
1988	2.390E-05	1.42	3.70E-05	1.43	4.19E-05	1.43	3.30E-05	1.42	2.920E-05	1.43
1989	3.890E-05	1.42	6.01E-05	1.43	6.80E-05	1.43	5.36E-05	1.42	4.740E-05	1.43
1990	2.060E-05	1.42	3.19E-05	1.43	3.61E-05	1.43	2.85E-05	1.42	2.520E-05	1.43
1991	1.230E-04	1.42	1.90E-04	1.43	2.15E-04	1.43	1.69E-04	1.42	1.500E-04	1.43
1992	6.880E-04	1.42	1.06E-03	1.43	1.20E-03	1.43	9.49E-04	1.42	8.390E-04	1.43
1993	5.380E-04	1.42	8.32E-04	1.43	9.42E-04	1.43	7.43E-04	1.42	6.570E-04	1.43
1994	1.970E-05	1.42	3.05E-05	1.43	3.45E-05	1.43	2.72E-05	1.42	2.410E-05	1.43
1995	1.940E-05	1.42	3.01E-05	1.43	3.40E-05	1.43	2.68E-05	1.42	2.370E-05	1.43
1996	1.790E-05	1.42	2.77E-05	1.43	3.14E-05	1.43	2.48E-05	1.42	2.190E-05	1.43
1997	2.870E-05	1.42	4.44E-05	1.43	5.02E-05	1.43	3.96E-05	1.42	3.500E-05	1.43
1998	6.580E-06	1.42	1.02E-05	1.43	1.15E-05	1.43	9.08E-06	1.42	8.030E-06	1.43
1999	2.540E-06	1.42	3.93E-06	1.43	4.45E-06	1.43	3.51E-06	1.42	3.100E-06	1.43
2000	5.380E-06	1.42	8.32E-06	1.43	9.42E-06	1.43	7.43E-06	1.42	6.570E-06	1.43
2001	4.480E-06	1.42	6.94E-06	1.43	7.85E-06	1.43	6.19E-06	1.42	5.470E-06	1.43

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	5.63E-04	2.29	8.12E-04	2.28	2.92E-04	2.28	4.300E-04	2.28	3.07E-04	2.28
1945	2.65E-01	1.50	3.28E-01	1.49	1.22E-01	1.49	2.070E-01	1.50	1.46E-01	1.49
1946	4.12E-01	1.48	4.89E-01	1.46	1.84E-01	1.47	3.240E-01	1.47	2.29E-01	1.47
1947	2.87E-01	1.47	3.50E-01	1.46	1.31E-01	1.46	2.250E-01	1.46	1.59E-01	1.46
1948	1.01E-01	1.57	1.23E-01	1.56	4.61E-02	1.56	7.940E-02	1.57	5.61E-02	1.57
1949	2.85E-03	1.47	3.57E-03	1.47	1.32E-03	1.47	2.220E-03	1.47	1.57E-03	1.47
1950	5.13E-03	1.47	6.28E-03	1.46	2.34E-03	1.46	4.020E-03	1.46	2.84E-03	1.46
1951	7.34E-03	1.47	9.08E-03	1.46	3.38E-03	1.46	5.730E-03	1.46	4.06E-03	1.46
1952	9.21E-03	1.48	1.08E-02	1.47	4.49E-03	1.47	6.880E-03	1.47	5.06E-03	1.47
1953	1.15E-02	1.51	1.32E-02	1.50	5.68E-03	1.50	8.460E-03	1.50	6.30E-03	1.51
1954	1.50E-02	1.50	1.76E-02	1.48	7.45E-03	1.49	1.110E-02	1.49	8.22E-03	1.49
1955	1.75E-02	1.51	2.05E-02	1.49	8.67E-03	1.50	1.290E-02	1.50	9.56E-03	1.50
1956	3.08E-02	1.49	2.96E-02	1.48	1.30E-02	1.48	2.410E-02	1.49	1.72E-02	1.49
1957	4.86E-02	1.48	4.54E-02	1.47	2.00E-02	1.47	3.840E-02	1.48	2.73E-02	1.48
1958	5.10E-02	1.50	4.69E-02	1.49	2.06E-02	1.49	4.060E-02	1.50	2.87E-02	1.50
1959	6.00E-02	1.51	5.46E-02	1.49	2.40E-02	1.49	4.800E-02	1.50	3.38E-02	1.50
1960	6.72E-02	1.52	6.06E-02	1.51	2.65E-02	1.51	5.390E-02	1.52	3.79E-02	1.51
1961	7.10E-02	1.50	6.51E-02	1.49	2.86E-02	1.49	5.660E-02	1.50	4.00E-02	1.50
1962	2.54E-02	1.52	2.30E-02	1.50	1.01E-02	1.50	2.040E-02	1.52	1.43E-02	1.51
1963	2.40E-02	1.53	2.19E-02	1.51	9.60E-03	1.51	1.920E-02	1.52	1.35E-02	1.52
1964	2.67E-02	1.51	2.48E-02	1.50	1.09E-02	1.50	2.120E-02	1.51	1.50E-02	1.50
1965	2.67E-02	1.52	2.46E-02	1.50	1.08E-02	1.50	2.130E-02	1.51	1.50E-02	1.51
1966	1.95E-02	1.54	1.81E-02	1.52	7.96E-03	1.52	1.550E-02	1.54	1.10E-02	1.54
1967	1.79E-02	1.55	1.57E-02	1.54	6.87E-03	1.54	1.450E-02	1.55	1.01E-02	1.54
1968	1.54E-02	1.55	1.35E-02	1.54	5.91E-03	1.54	1.250E-02	1.54	8.71E-03	1.54
1969	1.12E-02	1.55	9.87E-03	1.54	4.30E-03	1.54	9.090E-03	1.55	6.35E-03	1.54
1970	2.42E-03	1.79	2.13E-03	1.77	9.30E-04	1.77	1.960E-03	1.78	1.37E-03	1.77
1971	1.12E-02	1.63	9.90E-03	1.62	4.32E-03	1.62	9.120E-03	1.62	6.37E-03	1.62
1972	1.89E-03	2.04	1.67E-03	2.03	7.27E-04	2.03	1.530E-03	2.04	1.07E-03	2.03
All years from 1973 through 1982 have values of 0.00										
1983	1.25E-03	1.44	1.10E-03	1.42	4.79E-04	1.42	1.010E-03	1.43	7.06E-04	1.42
1984	1.72E-03	1.44	1.51E-03	1.42	6.60E-04	1.42	1.390E-03	1.43	9.73E-04	1.42
1985	4.30E-04	1.44	3.78E-04	1.42	1.65E-04	1.42	3.490E-04	1.43	2.43E-04	1.42
1986	3.74E-04	1.44	3.29E-04	1.42	1.44E-04	1.42	3.030E-04	1.43	2.12E-04	1.42
1987	1.72E-06	1.44	1.51E-06	1.42	6.60E-07	1.42	1.390E-06	1.43	9.73E-07	1.42
1988	3.44E-05	1.44	3.03E-05	1.42	1.32E-05	1.42	2.790E-05	1.43	1.95E-05	1.42
1989	5.59E-05	1.44	4.92E-05	1.42	2.15E-05	1.42	4.530E-05	1.43	3.16E-05	1.42
1990	2.96E-05	1.44	2.61E-05	1.42	1.14E-05	1.42	2.410E-05	1.43	1.68E-05	1.42
1991	1.76E-04	1.44	1.55E-04	1.42	6.77E-05	1.42	1.430E-04	1.43	9.98E-05	1.42
1992	9.88E-04	1.44	8.70E-04	1.42	3.80E-04	1.42	8.020E-04	1.43	5.60E-04	1.42
1993	7.73E-04	1.44	6.81E-04	1.42	2.97E-04	1.42	6.280E-04	1.43	4.38E-04	1.42
1994	2.84E-05	1.44	2.50E-05	1.42	1.09E-05	1.42	2.300E-05	1.43	1.61E-05	1.42
1995	2.79E-05	1.44	2.46E-05	1.42	1.07E-05	1.42	2.270E-05	1.43	1.58E-05	1.42
1996	2.58E-05	1.44	2.27E-05	1.42	9.91E-06	1.42	2.090E-05	1.43	1.46E-05	1.42
1997	4.12E-05	1.44	3.63E-05	1.42	1.58E-05	1.42	3.350E-05	1.43	2.34E-05	1.42
1998	9.45E-06	1.44	8.33E-06	1.42	3.63E-06	1.42	7.670E-06	1.43	5.35E-06	1.42
1999	3.65E-06	1.44	3.22E-06	1.42	1.40E-06	1.42	2.960E-06	1.43	2.07E-06	1.42
2000	7.73E-06	1.44	6.81E-06	1.42	2.97E-06	1.42	6.280E-06	1.43	4.38E-06	1.42
2001	6.45E-06	1.44	5.68E-06	1.42	2.48E-06	1.42	5.230E-06	1.43	3.65E-06	1.42

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	3.49E-04	2.29	3.29E-04	2.27	5.480E-04	2.28	7.00E-04	2.27	2.62E-03	2.28
1945	1.65E-01	1.50	1.22E-01	1.49	2.170E-01	1.50	3.41E-01	1.49	8.76E-01	1.51
1946	2.56E-01	1.48	1.77E-01	1.46	3.210E-01	1.47	5.35E-01	1.47	1.22E+00	1.48
1947	1.79E-01	1.47	1.29E-01	1.46	2.310E-01	1.46	3.71E-01	1.46	9.14E-01	1.47
1948	6.30E-02	1.57	4.55E-02	1.56	8.130E-02	1.56	1.31E-01	1.56	3.20E-01	1.58
1949	1.77E-03	1.47	1.34E-03	1.47	2.360E-03	1.47	3.66E-03	1.46	9.68E-03	1.48
1950	3.19E-03	1.47	2.32E-03	1.46	4.140E-03	1.47	6.62E-03	1.46	1.64E-02	1.47
1951	4.56E-03	1.47	3.38E-03	1.46	6.000E-03	1.47	9.45E-03	1.46	2.42E-02	1.47
1952	5.66E-03	1.47	5.70E-03	1.48	1.100E-02	1.48	1.20E-02	1.47	2.57E-02	1.46
1953	7.02E-03	1.51	7.66E-03	1.51	1.510E-02	1.51	1.50E-02	1.50	2.95E-02	1.49
1954	9.18E-03	1.49	9.90E-03	1.49	1.930E-02	1.50	1.95E-02	1.48	4.12E-02	1.47
1955	1.07E-02	1.51	1.15E-02	1.50	2.240E-02	1.51	2.26E-02	1.50	4.84E-02	1.48
1956	1.91E-02	1.49	1.40E-02	1.48	2.900E-02	1.48	4.26E-02	1.49	5.20E-02	1.48
1957	3.02E-02	1.48	2.01E-02	1.46	4.200E-02	1.46	6.78E-02	1.48	7.68E-02	1.47
1958	3.18E-02	1.50	1.98E-02	1.47	4.170E-02	1.48	7.15E-02	1.50	7.77E-02	1.48
1959	3.75E-02	1.50	2.23E-02	1.48	4.720E-02	1.48	8.46E-02	1.50	8.93E-02	1.49
1960	4.20E-02	1.52	2.41E-02	1.49	5.110E-02	1.50	9.49E-02	1.52	9.79E-02	1.50
1961	4.42E-02	1.50	2.72E-02	1.47	5.740E-02	1.48	9.97E-02	1.50	1.07E-01	1.48
1962	1.59E-02	1.52	9.28E-03	1.49	1.960E-02	1.49	3.59E-02	1.52	3.74E-02	1.50
1963	1.50E-02	1.52	9.02E-03	1.49	1.900E-02	1.50	3.38E-02	1.52	3.59E-02	1.50
1964	1.67E-02	1.51	1.07E-02	1.48	2.240E-02	1.49	3.75E-02	1.51	4.14E-02	1.49
1965	1.67E-02	1.51	1.03E-02	1.48	2.170E-02	1.49	3.75E-02	1.52	4.06E-02	1.50
1966	1.22E-02	1.54	7.85E-03	1.51	1.650E-02	1.51	2.73E-02	1.54	3.04E-02	1.52
1967	1.12E-02	1.55	5.75E-03	1.54	1.230E-02	1.54	2.55E-02	1.55	2.45E-02	1.54
1968	9.64E-03	1.55	4.95E-03	1.53	1.060E-02	1.54	2.19E-02	1.55	2.11E-02	1.54
1969	7.02E-03	1.55	3.60E-03	1.54	7.720E-03	1.55	1.60E-02	1.55	1.54E-02	1.54
1970	1.52E-03	1.78	7.79E-04	1.77	1.670E-03	1.78	3.45E-03	1.78	3.32E-03	1.78
1971	7.04E-03	1.63	3.62E-03	1.62	7.740E-03	1.62	1.60E-02	1.63	1.54E-02	1.62
1972	1.18E-03	2.04	6.08E-04	2.03	1.300E-03	2.04	2.70E-03	2.04	2.59E-03	2.04
All years from 1973 through 1982 have values of 0.00										
1983	7.81E-04	1.43	4.01E-04	1.42	8.580E-04	1.43	1.78E-03	1.43	1.71E-03	1.43
1984	1.08E-03	1.43	5.53E-04	1.42	1.180E-03	1.43	2.45E-03	1.43	2.36E-03	1.43
1985	2.69E-04	1.43	1.38E-04	1.42	2.960E-04	1.43	6.12E-04	1.43	5.90E-04	1.43
1986	2.34E-04	1.43	1.20E-04	1.42	2.570E-04	1.43	5.33E-04	1.43	5.13E-04	1.43
1987	1.08E-06	1.43	5.53E-07	1.42	1.180E-06	1.43	2.45E-06	1.43	2.36E-06	1.43
1988	2.15E-05	1.43	1.11E-05	1.42	2.370E-05	1.43	4.90E-05	1.43	4.72E-05	1.43
1989	3.50E-05	1.43	1.80E-05	1.42	3.850E-05	1.43	7.96E-05	1.43	7.66E-05	1.43
1990	1.86E-05	1.43	9.54E-06	1.42	2.040E-05	1.43	4.23E-05	1.43	4.07E-05	1.43
1991	1.10E-04	1.43	5.67E-05	1.42	1.210E-04	1.43	2.51E-04	1.43	2.42E-04	1.43
1992	6.19E-04	1.43	3.18E-04	1.42	6.810E-04	1.43	1.41E-03	1.43	1.36E-03	1.43
1993	4.84E-04	1.43	2.49E-04	1.42	5.330E-04	1.43	1.10E-03	1.43	1.06E-03	1.43
1994	1.78E-05	1.43	9.12E-06	1.42	1.950E-05	1.43	4.04E-05	1.43	3.89E-05	1.43
1995	1.75E-05	1.43	8.98E-06	1.42	1.920E-05	1.43	3.98E-05	1.43	3.83E-05	1.43
1996	1.61E-05	1.43	8.29E-06	1.42	1.780E-05	1.43	3.67E-05	1.43	3.54E-05	1.43
1997	2.58E-05	1.43	1.33E-05	1.42	2.840E-05	1.43	5.88E-05	1.43	5.66E-05	1.43
1998	5.92E-06	1.43	3.04E-06	1.42	6.510E-06	1.43	1.35E-05	1.43	1.30E-05	1.43
1999	2.29E-06	1.43	1.17E-06	1.42	2.520E-06	1.43	5.21E-06	1.43	5.01E-06	1.43
2000	4.84E-06	1.43	2.49E-06	1.42	5.330E-06	1.43	1.10E-05	1.43	1.06E-05	1.43
2001	4.04E-06	1.43	2.07E-06	1.42	4.440E-06	1.43	9.19E-06	1.43	8.84E-06	1.43

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	6.37E-04	2.29	2.060E-03	2.35	4.51E-04	2.27	3.42E-04	2.28	3.19E-04	2.27
1945	2.93E-01	1.51	6.850E-01	1.55	1.75E-01	1.49	1.63E-01	1.49	1.55E-01	1.49
1946	4.53E-01	1.49	9.490E-01	1.51	2.57E-01	1.47	2.55E-01	1.47	2.44E-01	1.47
1947	3.17E-01	1.48	7.140E-01	1.51	1.86E-01	1.46	1.77E-01	1.46	1.69E-01	1.46
1948	1.12E-01	1.58	2.500E-01	1.61	6.54E-02	1.56	6.25E-02	1.57	5.97E-02	1.56
1949	3.16E-03	1.48	7.570E-03	1.53	1.91E-03	1.47	1.75E-03	1.47	1.67E-03	1.46
1950	5.67E-03	1.48	1.290E-02	1.51	3.33E-03	1.46	3.16E-03	1.46	3.02E-03	1.46
1951	8.12E-03	1.48	1.890E-02	1.52	4.84E-03	1.46	4.52E-03	1.46	4.30E-03	1.46
1952	1.01E-02	1.48	2.200E-02	1.48	9.66E-03	1.49	6.11E-03	1.47	5.66E-03	1.47
1953	1.25E-02	1.51	2.620E-02	1.50	1.35E-02	1.51	7.81E-03	1.51	7.18E-03	1.50
1954	1.64E-02	1.50	3.600E-02	1.49	1.71E-02	1.50	1.01E-02	1.49	9.30E-03	1.49
1955	1.91E-02	1.51	4.220E-02	1.49	1.99E-02	1.51	1.17E-02	1.50	1.08E-02	1.50
1956	3.48E-02	1.50	4.570E-02	1.48	2.46E-02	1.48	2.07E-02	1.48	1.99E-02	1.48
1957	5.53E-02	1.49	6.680E-02	1.47	3.50E-02	1.46	3.24E-02	1.47	3.15E-02	1.47
1958	5.82E-02	1.51	6.710E-02	1.49	3.42E-02	1.47	3.39E-02	1.49	3.31E-02	1.49
1959	6.88E-02	1.52	7.660E-02	1.49	3.84E-02	1.48	3.98E-02	1.50	3.90E-02	1.49
1960	7.72E-02	1.53	8.360E-02	1.51	4.13E-02	1.49	4.45E-02	1.51	4.37E-02	1.51
1961	8.12E-02	1.51	9.260E-02	1.49	4.70E-02	1.47	4.71E-02	1.49	4.61E-02	1.49
1962	2.92E-02	1.53	3.200E-02	1.50	1.59E-02	1.49	1.68E-02	1.51	1.65E-02	1.51
1963	2.75E-02	1.54	3.080E-02	1.51	1.55E-02	1.49	1.59E-02	1.51	1.56E-02	1.51
1964	3.05E-02	1.52	3.590E-02	1.49	1.85E-02	1.48	1.78E-02	1.50	1.74E-02	1.50
1965	3.05E-02	1.53	3.500E-02	1.50	1.78E-02	1.48	1.78E-02	1.51	1.74E-02	1.50
1966	2.23E-02	1.55	2.630E-02	1.52	1.36E-02	1.51	1.30E-02	1.53	1.27E-02	1.53
1967	2.07E-02	1.56	2.060E-02	1.55	9.67E-03	1.54	1.18E-02	1.54	1.17E-02	1.54
1968	1.78E-02	1.56	1.780E-02	1.55	8.32E-03	1.54	1.01E-02	1.54	1.01E-02	1.53
1969	1.30E-02	1.56	1.290E-02	1.55	6.06E-03	1.54	7.38E-03	1.54	7.32E-03	1.54
1970	2.80E-03	1.79	2.790E-03	1.78	1.31E-03	1.78	1.59E-03	1.78	1.58E-03	1.77
1971	1.30E-02	1.64	1.300E-02	1.63	6.08E-03	1.62	7.40E-03	1.62	7.34E-03	1.61
1972	2.19E-03	2.05	2.180E-03	2.04	1.02E-03	2.03	1.25E-03	2.03	1.24E-03	2.03
All years from 1973 through 1982 have values of 0.00										
1974	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1975	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1976	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1977	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1978	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1979	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1980	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1981	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1982	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1983	1.44E-03	1.45	1.440E-03	1.43	6.74E-04	1.42	8.21E-04	1.42	8.14E-04	1.42
1984	1.99E-03	1.45	1.980E-03	1.43	9.30E-04	1.42	1.13E-03	1.42	1.12E-03	1.42
1985	4.97E-04	1.45	4.960E-04	1.43	2.32E-04	1.42	2.83E-04	1.42	2.81E-04	1.42
1986	4.32E-04	1.45	4.320E-04	1.43	2.02E-04	1.42	2.46E-04	1.42	2.44E-04	1.42
1987	1.99E-06	1.45	1.980E-06	1.43	9.30E-07	1.42	1.13E-06	1.42	1.12E-06	1.42
1988	3.97E-05	1.45	3.970E-05	1.43	1.86E-05	1.42	2.26E-05	1.42	2.25E-05	1.42
1989	6.46E-05	1.45	6.450E-05	1.43	3.02E-05	1.42	3.68E-05	1.42	3.65E-05	1.42
1990	3.43E-05	1.45	3.420E-05	1.43	1.60E-05	1.42	1.95E-05	1.42	1.94E-05	1.42
1991	2.04E-04	1.45	2.030E-04	1.43	9.53E-05	1.42	1.16E-04	1.42	1.15E-04	1.42
1992	1.14E-03	1.45	1.140E-03	1.43	5.35E-04	1.42	6.51E-04	1.42	6.46E-04	1.42
1993	8.94E-04	1.45	8.930E-04	1.43	4.18E-04	1.42	5.09E-04	1.42	5.05E-04	1.42
1994	3.28E-05	1.45	3.270E-05	1.43	1.53E-05	1.42	1.87E-05	1.42	1.85E-05	1.42
1995	3.23E-05	1.45	3.220E-05	1.43	1.51E-05	1.42	1.84E-05	1.42	1.82E-05	1.42
1996	2.98E-05	1.45	2.980E-05	1.43	1.39E-05	1.42	1.70E-05	1.42	1.68E-05	1.42
1997	4.77E-05	1.45	4.760E-05	1.43	2.23E-05	1.42	2.72E-05	1.42	2.70E-05	1.42
1998	1.09E-05	1.45	1.090E-05	1.43	5.11E-06	1.42	6.23E-06	1.42	6.18E-06	1.42
1999	4.22E-06	1.45	4.220E-06	1.43	1.98E-06	1.42	2.41E-06	1.42	2.39E-06	1.42
2000	8.94E-06	1.45	8.930E-06	1.43	4.18E-06	1.42	5.09E-06	1.42	5.05E-06	1.42
2001	7.45E-06	1.45	7.440E-06	1.43	3.49E-06	1.42	4.25E-06	1.42	4.21E-06	1.42

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	3.850E-04	2.28	1.85E-04	2.27	4.65E-04	2.28	9.87E-04	2.28	4.430E-04	2.27
1945	1.750E-01	1.50	7.25E-02	1.49	2.25E-01	1.49	4.23E-01	1.50	2.310E-01	1.49
1946	2.700E-01	1.47	1.07E-01	1.46	3.52E-01	1.47	6.40E-01	1.48	3.690E-01	1.47
1947	1.890E-01	1.46	7.72E-02	1.45	2.44E-01	1.46	4.54E-01	1.47	2.530E-01	1.46
1948	6.690E-02	1.57	2.72E-02	1.56	8.63E-02	1.56	1.60E-01	1.57	8.930E-02	1.57
1949	1.890E-03	1.47	7.90E-04	1.46	2.41E-03	1.47	4.58E-03	1.47	2.470E-03	1.46
1950	3.390E-03	1.47	1.38E-03	1.46	4.36E-03	1.46	8.13E-03	1.47	4.510E-03	1.46
1951	4.850E-03	1.46	2.01E-03	1.46	6.23E-03	1.46	1.17E-02	1.47	6.400E-03	1.46
1952	7.040E-03	1.48	3.69E-03	1.48	7.93E-03	1.47	1.76E-02	1.47	7.710E-03	1.47
1953	9.170E-03	1.51	5.07E-03	1.51	9.95E-03	1.50	2.32E-02	1.50	9.520E-03	1.50
1954	1.180E-02	1.49	6.47E-03	1.50	1.29E-02	1.49	2.99E-02	1.49	1.240E-02	1.48
1955	1.370E-02	1.51	7.50E-03	1.51	1.50E-02	1.50	3.48E-02	1.50	1.440E-02	1.50
1956	2.250E-02	1.48	9.57E-03	1.47	2.77E-02	1.49	5.25E-02	1.49	2.910E-02	1.49
1957	3.480E-02	1.48	1.38E-02	1.46	4.40E-02	1.47	7.96E-02	1.48	4.690E-02	1.47
1958	3.600E-02	1.50	1.37E-02	1.47	4.63E-02	1.49	8.14E-02	1.51	4.980E-02	1.49
1959	4.210E-02	1.50	1.54E-02	1.47	5.47E-02	1.50	9.43E-02	1.51	5.920E-02	1.50
1960	4.680E-02	1.51	1.67E-02	1.49	6.13E-02	1.51	1.04E-01	1.53	6.670E-02	1.51
1961	5.010E-02	1.50	1.88E-02	1.47	6.45E-02	1.50	1.13E-01	1.51	6.950E-02	1.50
1962	1.770E-02	1.51	6.42E-03	1.49	2.32E-02	1.51	3.96E-02	1.53	2.510E-02	1.51
1963	1.690E-02	1.52	6.23E-03	1.49	2.18E-02	1.52	3.78E-02	1.53	2.360E-02	1.52
1964	1.900E-02	1.50	7.36E-03	1.48	2.43E-02	1.50	4.32E-02	1.51	2.600E-02	1.50
1965	1.890E-02	1.51	7.13E-03	1.48	2.43E-02	1.51	4.26E-02	1.52	2.610E-02	1.51
1966	1.390E-02	1.53	5.41E-03	1.51	1.77E-02	1.53	3.16E-02	1.54	1.890E-02	1.54
1967	1.220E-02	1.55	4.00E-03	1.53	1.64E-02	1.54	2.66E-02	1.57	1.810E-02	1.53
1968	1.050E-02	1.55	3.45E-03	1.53	1.41E-02	1.54	2.29E-02	1.57	1.560E-02	1.53
1969	7.640E-03	1.55	2.51E-03	1.53	1.03E-02	1.54	1.67E-02	1.57	1.130E-02	1.54
1970	1.650E-03	1.78	5.42E-04	1.77	2.22E-03	1.77	3.60E-03	1.80	2.450E-03	1.77
1971	7.660E-03	1.63	2.52E-03	1.61	1.03E-02	1.62	1.67E-02	1.65	1.140E-02	1.61
1972	1.290E-03	2.04	4.24E-04	2.03	1.74E-03	2.03	2.81E-03	2.06	1.910E-03	2.03
All years from 1973 through 1982 have values of 0.00										
1983	8.490E-04	1.43	2.79E-04	1.41	1.14E-03	1.42	1.85E-03	1.46	1.260E-03	1.42
1984	1.170E-03	1.43	3.85E-04	1.41	1.58E-03	1.42	2.56E-03	1.46	1.740E-03	1.42
1985	2.930E-04	1.43	9.62E-05	1.41	3.94E-04	1.42	6.40E-04	1.46	4.350E-04	1.42
1986	2.550E-04	1.43	8.37E-05	1.41	3.43E-04	1.42	5.56E-04	1.46	3.780E-04	1.42
1987	1.170E-06	1.43	3.85E-07	1.41	1.58E-06	1.42	2.56E-06	1.46	1.740E-06	1.42
1988	2.340E-05	1.43	7.70E-06	1.41	3.15E-05	1.42	5.12E-05	1.46	3.480E-05	1.42
1989	3.810E-05	1.43	1.25E-05	1.41	5.13E-05	1.42	8.31E-05	1.46	5.650E-05	1.42
1990	2.020E-05	1.43	6.64E-06	1.41	2.72E-05	1.42	4.41E-05	1.46	3.000E-05	1.42
1991	1.200E-04	1.43	3.95E-05	1.41	1.62E-04	1.42	2.62E-04	1.46	1.780E-04	1.42
1992	6.740E-04	1.43	2.21E-04	1.41	9.07E-04	1.42	1.47E-03	1.46	1.000E-03	1.42
1993	5.270E-04	1.43	1.73E-04	1.41	7.10E-04	1.42	1.15E-03	1.46	7.820E-04	1.42
1994	1.930E-05	1.43	6.35E-06	1.41	2.60E-05	1.42	4.22E-05	1.46	2.870E-05	1.42
1995	1.900E-05	1.43	6.26E-06	1.41	2.56E-05	1.42	4.16E-05	1.46	2.820E-05	1.42
1996	1.760E-05	1.43	5.77E-06	1.41	2.37E-05	1.42	3.84E-05	1.46	2.610E-05	1.42
1997	2.810E-05	1.43	9.24E-06	1.41	3.79E-05	1.42	6.14E-05	1.46	4.170E-05	1.42
1998	6.440E-06	1.43	2.12E-06	1.41	8.68E-06	1.42	1.41E-05	1.46	9.560E-06	1.42
1999	2.490E-06	1.43	8.18E-07	1.41	3.35E-06	1.42	5.44E-06	1.46	3.690E-06	1.42
2000	5.270E-06	1.43	1.73E-06	1.41	7.10E-06	1.42	1.15E-05	1.46	7.820E-06	1.42
2001	4.390E-06	1.43	1.44E-06	1.41	5.92E-06	1.42	9.59E-06	1.46	6.520E-06	1.42

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	5.26E-04	2.28	7.67E-04	2.28	5.50E-04	2.29	7.510E-04	2.28	1.15E-03	2.29
1945	2.33E-01	1.50	2.53E-01	1.50	1.88E-01	1.52	2.810E-01	1.50	9.95E-01	1.52
1946	3.56E-01	1.47	3.50E-01	1.47	2.63E-01	1.48	4.070E-01	1.47	1.74E+00	1.49
1947	2.51E-01	1.46	2.64E-01	1.46	1.97E-01	1.47	2.970E-01	1.46	1.13E+00	1.48
1948	8.86E-02	1.56	9.24E-02	1.57	6.89E-02	1.58	1.040E-01	1.56	3.98E-01	1.61
1949	2.52E-03	1.47	2.80E-03	1.48	2.07E-03	1.49	3.070E-03	1.47	1.04E-02	1.48
1950	4.49E-03	1.46	4.75E-03	1.47	3.53E-03	1.48	5.330E-03	1.46	2.00E-02	1.48
1951	6.45E-03	1.46	7.00E-03	1.47	5.19E-03	1.48	7.760E-03	1.46	2.77E-02	1.48
1952	9.60E-03	1.47	1.07E-02	1.48	1.17E-02	1.50	1.850E-02	1.50	1.97E-02	1.47
1953	1.26E-02	1.50	1.39E-02	1.51	1.67E-02	1.53	2.660E-02	1.52	1.91E-02	1.49
1954	1.62E-02	1.49	1.83E-02	1.49	2.12E-02	1.51	3.340E-02	1.51	2.55E-02	1.48
1955	1.88E-02	1.50	2.14E-02	1.50	2.46E-02	1.53	3.870E-02	1.52	2.98E-02	1.49
1956	2.94E-02	1.48	2.36E-02	1.48	2.55E-02	1.49	4.360E-02	1.48	2.44E-01	1.54
1957	4.48E-02	1.47	3.36E-02	1.46	3.42E-02	1.47	5.970E-02	1.46	4.42E-01	1.51
1958	4.61E-02	1.49	3.29E-02	1.47	3.20E-02	1.48	5.680E-02	1.47	5.00E-01	1.53
1959	5.35E-02	1.50	3.70E-02	1.47	3.47E-02	1.47	6.230E-02	1.47	6.18E-01	1.52
1960	5.92E-02	1.51	3.98E-02	1.48	3.60E-02	1.49	6.560E-02	1.48	7.18E-01	1.53
1961	6.39E-02	1.49	4.52E-02	1.47	4.35E-02	1.47	7.750E-02	1.47	7.07E-01	1.53
1962	2.25E-02	1.51	1.53E-02	1.48	1.41E-02	1.48	2.550E-02	1.48	2.67E-01	1.53
1963	2.15E-02	1.51	1.50E-02	1.49	1.41E-02	1.49	2.530E-02	1.48	2.45E-01	1.55
1964	2.44E-02	1.50	1.78E-02	1.48	1.77E-02	1.48	3.110E-02	1.48	2.54E-01	1.55
1965	2.41E-02	1.50	1.72E-02	1.48	1.66E-02	1.48	2.950E-02	1.48	2.64E-01	1.54
1966	1.79E-02	1.53	1.31E-02	1.51	1.31E-02	1.51	2.300E-02	1.50	1.84E-01	1.59
1967	1.53E-02	1.55	9.37E-03	1.53	7.50E-03	1.55	1.430E-02	1.54	2.10E-01	1.54
1968	1.31E-02	1.55	8.07E-03	1.53	6.46E-03	1.55	1.230E-02	1.53	1.81E-01	1.54
1969	9.56E-03	1.55	5.88E-03	1.53	4.70E-03	1.55	8.970E-03	1.54	1.32E-01	1.54
1970	2.07E-03	1.78	1.27E-03	1.76	1.02E-03	1.78	1.940E-03	1.77	2.85E-02	1.77
1971	9.59E-03	1.63	5.90E-03	1.61	4.72E-03	1.63	9.000E-03	1.62	1.32E-01	1.62
1972	1.61E-03	2.04	9.92E-04	2.02	7.94E-04	2.04	1.510E-03	2.03	2.22E-02	2.03
All years from 1973 through 1982 have values of 0.00										
1983	1.06E-03	1.43	6.54E-04	1.41	5.23E-04	1.44	9.980E-04	1.42	1.47E-02	1.42
1984	1.47E-03	1.43	9.02E-04	1.41	7.22E-04	1.44	1.380E-03	1.42	2.02E-02	1.42
1985	3.67E-04	1.43	2.25E-04	1.41	1.80E-04	1.44	3.440E-04	1.42	5.05E-03	1.42
1986	3.19E-04	1.43	1.96E-04	1.41	1.57E-04	1.44	2.990E-04	1.42	4.40E-03	1.42
1987	1.47E-06	1.43	9.02E-07	1.41	7.22E-07	1.44	1.380E-06	1.42	2.02E-05	1.42
1988	2.93E-05	1.43	1.80E-05	1.41	1.44E-05	1.44	2.750E-05	1.42	4.04E-04	1.42
1989	4.77E-05	1.43	2.93E-05	1.41	2.35E-05	1.44	4.470E-05	1.42	6.57E-04	1.42
1990	2.53E-05	1.43	1.56E-05	1.41	1.24E-05	1.44	2.370E-05	1.42	3.49E-04	1.42
1991	1.50E-04	1.43	9.24E-05	1.41	7.40E-05	1.44	1.410E-04	1.42	2.07E-03	1.42
1992	8.44E-04	1.43	5.18E-04	1.41	4.15E-04	1.44	7.920E-04	1.42	1.16E-02	1.42
1993	6.60E-04	1.43	4.06E-04	1.41	3.25E-04	1.44	6.200E-04	1.42	9.09E-03	1.42
1994	2.42E-05	1.43	1.49E-05	1.41	1.19E-05	1.44	2.270E-05	1.42	3.33E-04	1.42
1995	2.38E-05	1.43	1.46E-05	1.41	1.17E-05	1.44	2.240E-05	1.42	3.28E-04	1.42
1996	2.20E-05	1.43	1.35E-05	1.41	1.08E-05	1.44	2.070E-05	1.42	3.03E-04	1.42
1997	3.52E-05	1.43	2.16E-05	1.41	1.73E-05	1.44	3.300E-05	1.42	4.85E-04	1.42
1998	8.07E-06	1.43	4.96E-06	1.41	3.97E-06	1.44	7.570E-06	1.42	1.11E-04	1.42
1999	3.12E-06	1.43	1.92E-06	1.41	1.53E-06	1.44	2.930E-06	1.42	4.29E-05	1.42
2000	6.60E-06	1.43	4.06E-06	1.41	3.25E-06	1.44	6.200E-06	1.42	9.09E-05	1.42
2001	5.50E-06	1.43	3.38E-06	1.41	2.71E-06	1.44	5.160E-06	1.42	7.58E-05	1.42

Table A-14. Nuclide Cs/Ba137, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	5.65E-04	2.29	1.19E-03	2.28	4.180E-03	2.46				
1945	1.96E-01	1.51	8.70E-01	1.51	1.100E+00	1.72				
1946	2.77E-01	1.48	1.49E+00	1.49	1.360E+00	1.66				
1947	2.06E-01	1.47	9.76E-01	1.48	1.110E+00	1.66				
1948	7.21E-02	1.58	3.45E-01	1.60	3.810E-01	1.79				
1949	2.16E-03	1.49	9.14E-03	1.48	1.250E-02	1.69				
1950	3.70E-03	1.47	1.74E-02	1.48	2.000E-02	1.67				
1951	5.42E-03	1.48	2.42E-02	1.48	3.030E-02	1.67				
1952	1.30E-02	1.50	1.92E-02	1.47	3.200E-02	1.56				
1953	1.86E-02	1.52	1.98E-02	1.50	3.570E-02	1.52				
1954	2.35E-02	1.51	2.64E-02	1.48	5.240E-02	1.54				
1955	2.72E-02	1.52	3.08E-02	1.49	6.200E-02	1.55				
1956	2.83E-02	1.49	1.66E-01	1.55	4.410E-02	1.49				
1957	3.78E-02	1.46	2.96E-01	1.52	6.030E-02	1.47				
1958	3.52E-02	1.47	3.32E-01	1.54	5.840E-02	1.48				
1959	3.80E-02	1.47	4.08E-01	1.54	6.500E-02	1.48				
1960	3.94E-02	1.48	4.72E-01	1.55	6.930E-02	1.50				
1961	4.79E-02	1.47	4.68E-01	1.54	8.000E-02	1.48				
1962	1.55E-02	1.48	1.76E-01	1.55	2.680E-02	1.49				
1963	1.55E-02	1.48	1.62E-01	1.56	2.630E-02	1.50				
1964	1.95E-02	1.48	1.69E-01	1.56	3.170E-02	1.49				
1965	1.83E-02	1.48	1.75E-01	1.56	3.040E-02	1.49				
1966	1.44E-02	1.51	1.22E-01	1.59	2.340E-02	1.51				
1967	8.12E-03	1.55	1.37E-01	1.56	1.580E-02	1.55				
1968	6.99E-03	1.54	1.18E-01	1.56	1.360E-02	1.55				
1969	5.09E-03	1.55	8.58E-02	1.56	9.900E-03	1.55				
1970	1.10E-03	1.78	1.85E-02	1.79	2.140E-03	1.78				
1971	5.10E-03	1.63	8.61E-02	1.64	9.940E-03	1.63				
1972	8.59E-04	2.04	1.45E-02	2.05	1.670E-03	2.04				
All years from 1973 through 1982 have values of 0.00										
1983	5.66E-04	1.43	9.54E-03	1.44	1.100E-03	1.44				
1984	7.81E-04	1.43	1.32E-02	1.44	1.520E-03	1.44				
1985	1.95E-04	1.43	3.29E-03	1.44	3.800E-04	1.44				
1986	1.70E-04	1.43	2.86E-03	1.44	3.300E-04	1.44				
1987	7.81E-07	1.43	1.32E-05	1.44	1.520E-06	1.44				
1988	1.56E-05	1.43	2.63E-04	1.44	3.040E-05	1.44				
1989	2.54E-05	1.43	4.28E-04	1.44	4.940E-05	1.44				
1990	1.35E-05	1.43	2.27E-04	1.44	2.620E-05	1.44				
1991	8.00E-05	1.43	1.35E-03	1.44	1.560E-04	1.44				
1992	4.49E-04	1.43	7.57E-03	1.44	8.740E-04	1.44				
1993	3.51E-04	1.43	5.92E-03	1.44	6.840E-04	1.44				
1994	1.29E-05	1.43	2.17E-04	1.44	2.510E-05	1.44				
1995	1.27E-05	1.43	2.14E-04	1.44	2.470E-05	1.44				
1996	1.17E-05	1.43	1.97E-04	1.44	2.280E-05	1.44				
1997	1.87E-05	1.43	3.16E-04	1.44	3.650E-05	1.44				
1998	4.29E-06	1.43	7.24E-05	1.44	8.360E-06	1.44				
1999	1.66E-06	1.43	2.80E-05	1.44	3.230E-06	1.44				
2000	3.51E-06	1.43	5.92E-05	1.44	6.840E-06	1.44				
2001	2.93E-06	1.43	4.93E-05	1.44	5.700E-06	1.44				

Table A-15. Nuclide Ru/Rh106. Bq/yr

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.19E-02	2.87	2.680E-03	2.69	5.80E-03	2.72	2.55E-03	2.69	7.23E-03	2.75
1945	3.50E+00	1.81	4.090E+00	1.69	1.84E+00	1.65	2.78E+00	1.65	2.23E+00	1.69
1946	4.24E+00	1.74	7.280E+00	1.63	2.31E+00	1.59	4.79E+00	1.60	2.76E+00	1.62
1947	3.34E+00	1.72	4.480E+00	1.61	1.77E+00	1.57	3.00E+00	1.58	2.13E+00	1.60
1948	1.06E+00	1.94	1.440E+00	1.85	5.65E-01	1.77	9.71E-01	1.80	6.80E-01	1.81
1949	3.73E-02	1.75	4.300E-02	1.62	1.95E-02	1.59	2.93E-02	1.59	2.36E-02	1.63
1950	6.54E-02	1.73	8.500E-02	1.62	3.45E-02	1.58	5.71E-02	1.59	4.18E-02	1.61
1951	1.15E-01	1.74	1.350E-01	1.61	6.04E-02	1.58	9.19E-02	1.58	7.32E-02	1.62
1952	1.13E+00	1.89	6.800E-01	1.86	1.01E+01	1.92	6.71E-01	1.88	2.30E+00	1.92
1953	9.58E+00	2.51	5.720E+00	2.49	9.22E+01	2.51	5.78E+00	2.49	2.05E+01	2.51
1954	2.01E+01	2.47	1.200E+01	2.45	1.93E+02	2.47	1.21E+01	2.45	4.30E+01	2.47
1955	8.69E-01	1.64	4.780E-01	1.64	7.38E+00	1.68	4.82E-01	1.65	1.70E+00	1.67
1956	7.22E-01	1.66	6.760E-01	1.55	6.29E+00	1.69	9.61E-01	1.58	1.45E+00	1.68
1957	9.17E-01	1.59	1.010E+00	1.51	7.64E+00	1.62	1.54E+00	1.56	1.79E+00	1.61
1958	7.47E-01	1.59	9.850E-01	1.53	5.76E+00	1.66	1.61E+00	1.60	1.39E+00	1.63
1959	6.26E-01	1.54	1.080E+00	1.55	4.14E+00	1.62	1.90E+00	1.63	1.07E+00	1.58
1960	5.86E-01	1.55	1.150E+00	1.57	3.49E+00	1.65	2.08E+00	1.65	9.41E-01	1.59
1961	8.36E-01	1.55	1.300E+00	1.54	5.91E+00	1.62	2.24E+00	1.62	1.48E+00	1.59
1962	2.29E-01	1.56	7.170E-01	1.62	6.90E-01	1.59	1.40E+00	1.69	2.68E-01	1.53
1963	2.23E-01	1.57	6.500E-01	1.66	7.85E-01	1.61	1.26E+00	1.73	2.79E-01	1.55
1964	2.57E-01	1.56	7.290E-01	1.64	9.59E-01	1.61	1.41E+00	1.71	3.29E-01	1.55
1965	2.49E-01	1.55	6.690E-01	1.62	1.02E+00	1.62	1.28E+00	1.69	3.31E-01	1.55
1966	2.51E-01	1.67	4.780E-01	1.66	1.51E+00	1.84	8.59E-01	1.74	4.05E-01	1.75
1967	1.56E-01	1.64	6.350E-01	1.64	1.27E-01	1.64	1.28E+00	1.70	1.30E-01	1.64
1968	1.71E-01	1.64	6.980E-01	1.64	1.39E-01	1.64	1.40E+00	1.70	1.43E-01	1.65
1969	1.30E-01	1.63	5.280E-01	1.63	1.05E-01	1.63	1.06E+00	1.69	1.08E-01	1.64
1970	2.85E-02	1.98	1.160E-01	1.98	2.31E-02	1.98	2.33E-01	2.04	2.37E-02	1.99
1971	3.89E-02	1.80	1.580E-01	1.80	3.16E-02	1.80	3.18E-01	1.85	3.24E-02	1.80
1972	3.20E-03	2.43	1.300E-02	2.43	2.60E-03	2.43	2.62E-02	2.48	2.66E-03	2.43
All years from 1973 through 1983 have values of 0.00										
1984	7.60E-03	1.44	3.090E-02	1.43	6.17E-03	1.43	6.22E-02	1.51	6.33E-03	1.44
1985	2.28E-02	1.44	9.280E-02	1.43	1.85E-02	1.43	1.86E-01	1.51	1.90E-02	1.44
1986	1.52E-02	1.44	6.190E-02	1.43	1.23E-02	1.43	1.24E-01	1.51	1.27E-02	1.44
1987	7.60E-04	1.44	3.090E-03	1.43	6.17E-04	1.43	6.22E-03	1.51	6.33E-04	1.44
1988	6.84E-03	1.44	2.780E-02	1.43	5.56E-03	1.43	5.59E-02	1.51	5.69E-03	1.44
1989	8.36E-04	1.44	3.400E-03	1.43	6.79E-04	1.43	6.84E-03	1.51	6.96E-04	1.44
1990	1.06E-04	1.44	4.330E-04	1.43	8.64E-05	1.43	8.70E-04	1.51	8.86E-05	1.44
1991	1.10E-04	1.44	4.480E-04	1.43	8.95E-05	1.43	9.01E-04	1.51	9.17E-05	1.44
1992	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1993	1.52E-07	1.44	6.190E-07	1.43	1.23E-07	1.43	1.24E-06	1.51	1.27E-07	1.44
1994	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1995	6.84E-07	1.44	2.780E-06	1.43	5.56E-07	1.43	5.59E-06	1.51	5.69E-07	1.44
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.550E-03	2.69	1.77E-03	2.68	1.81E-03	2.70	1.47E-03	2.70	1.310E-03	2.69
1945	7.400E-01	1.57	9.23E-01	1.56	9.82E-01	1.57	7.93E-01	1.57	7.090E-01	1.57
1946	1.080E+00	1.52	1.39E+00	1.52	1.49E+00	1.53	1.20E+00	1.53	1.070E+00	1.53
1947	7.480E-01	1.51	9.42E-01	1.50	1.01E+00	1.51	8.11E-01	1.51	7.250E-01	1.51
1948	2.440E-01	1.68	3.08E-01	1.68	3.28E-01	1.69	2.65E-01	1.68	2.370E-01	1.68
1949	7.780E-03	1.52	9.71E-03	1.51	1.03E-02	1.52	8.33E-03	1.52	7.450E-03	1.52
1950	1.440E-02	1.51	1.81E-02	1.51	1.94E-02	1.52	1.56E-02	1.52	1.400E-02	1.51
1951	2.430E-02	1.51	3.03E-02	1.51	3.22E-02	1.52	2.60E-02	1.52	2.330E-02	1.51
1952	3.740E-01	1.89	4.73E-01	1.90	5.21E-01	1.90	4.28E-01	1.90	3.830E-01	1.90
1953	3.300E+00	2.49	4.19E+00	2.50	4.62E+00	2.50	3.80E+00	2.50	3.390E+00	2.50
1954	6.920E+00	2.45	8.77E+00	2.46	9.67E+00	2.47	7.95E+00	2.46	7.100E+00	2.46
1955	2.760E-01	1.65	3.48E-01	1.65	3.83E-01	1.66	3.14E-01	1.66	2.810E-01	1.66
1956	2.810E-01	1.60	3.72E-01	1.59	4.13E-01	1.60	3.36E-01	1.60	2.990E-01	1.60
1957	3.770E-01	1.53	5.07E-01	1.53	5.64E-01	1.53	4.57E-01	1.53	4.070E-01	1.53
1958	3.280E-01	1.54	4.51E-01	1.53	5.03E-01	1.54	4.06E-01	1.54	3.610E-01	1.53
1959	3.070E-01	1.51	4.34E-01	1.52	4.86E-01	1.52	3.90E-01	1.52	3.470E-01	1.52
1960	3.050E-01	1.53	4.38E-01	1.54	4.91E-01	1.54	3.93E-01	1.53	3.490E-01	1.53
1961	3.930E-01	1.51	5.49E-01	1.52	6.14E-01	1.52	4.94E-01	1.52	4.390E-01	1.52
1962	1.530E-01	1.58	2.31E-01	1.59	2.60E-01	1.59	2.06E-01	1.59	1.830E-01	1.59
1963	1.430E-01	1.61	2.14E-01	1.62	2.41E-01	1.62	1.91E-01	1.62	1.700E-01	1.62
1964	1.620E-01	1.59	2.42E-01	1.61	2.73E-01	1.61	2.17E-01	1.60	1.920E-01	1.60
1965	1.520E-01	1.57	2.26E-01	1.58	2.55E-01	1.58	2.02E-01	1.58	1.790E-01	1.58
1966	1.300E-01	1.62	1.86E-01	1.62	2.08E-01	1.62	1.67E-01	1.62	1.480E-01	1.62
1967	1.230E-01	1.63	1.90E-01	1.63	2.15E-01	1.63	1.70E-01	1.63	1.500E-01	1.63
1968	1.350E-01	1.63	2.09E-01	1.64	2.36E-01	1.64	1.86E-01	1.63	1.650E-01	1.63
1969	1.020E-01	1.62	1.58E-01	1.63	1.79E-01	1.63	1.41E-01	1.62	1.250E-01	1.63
1970	2.240E-02	1.97	3.46E-02	1.98	3.92E-02	1.98	3.09E-02	1.97	2.730E-02	1.98
1971	3.060E-02	1.79	4.74E-02	1.79	5.36E-02	1.79	4.23E-02	1.79	3.740E-02	1.79
1972	2.520E-03	2.42	3.89E-03	2.43	4.41E-03	2.42	3.47E-03	2.42	3.070E-03	2.42
All years from 1973 through 1983 have values of 0.00										
1984	5.980E-03	1.42	9.25E-03	1.43	1.05E-02	1.43	8.25E-03	1.42	7.300E-03	1.43
1985	1.790E-02	1.42	2.77E-02	1.43	3.14E-02	1.43	2.48E-02	1.42	2.190E-02	1.43
1986	1.200E-02	1.42	1.85E-02	1.43	2.09E-02	1.43	1.65E-02	1.42	1.460E-02	1.43
1987	5.980E-04	1.42	9.25E-04	1.43	1.05E-03	1.43	8.25E-04	1.42	7.300E-04	1.43
1988	5.380E-03	1.42	8.32E-03	1.43	9.42E-03	1.43	7.43E-03	1.42	6.570E-03	1.43
1989	6.580E-04	1.42	1.02E-03	1.43	1.15E-03	1.43	9.08E-04	1.42	8.030E-04	1.43
1990	8.370E-05	1.42	1.29E-04	1.43	1.47E-04	1.43	1.16E-04	1.42	1.020E-04	1.43
1991	8.670E-05	1.42	1.34E-04	1.43	1.52E-04	1.43	1.20E-04	1.42	1.060E-04	1.43
1992	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1993	1.200E-07	1.42	1.85E-07	1.43	2.09E-07	1.43	1.65E-07	1.42	1.460E-07	1.43
1994	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1995	5.380E-07	1.42	8.32E-07	1.43	9.42E-07	1.43	7.43E-07	1.42	6.570E-07	1.43
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.61E-03	2.70	2.32E-03	2.69	8.33E-04	2.69	1.230E-03	2.69	8.76E-04	2.69
1945	8.55E-01	1.57	1.06E+00	1.56	3.94E-01	1.57	6.680E-01	1.57	4.73E-01	1.57
1946	1.29E+00	1.53	1.53E+00	1.52	5.76E-01	1.52	1.010E+00	1.53	7.16E-01	1.53
1947	8.73E-01	1.52	1.07E+00	1.50	3.98E-01	1.51	6.840E-01	1.51	4.84E-01	1.51
1948	2.85E-01	1.69	3.48E-01	1.67	1.30E-01	1.67	2.230E-01	1.68	1.58E-01	1.68
1949	8.98E-03	1.52	1.11E-02	1.52	4.15E-03	1.52	7.020E-03	1.52	4.97E-03	1.52
1950	1.68E-02	1.52	2.06E-02	1.51	7.69E-03	1.51	1.320E-02	1.52	9.31E-03	1.51
1951	2.80E-02	1.52	3.47E-02	1.51	1.29E-02	1.51	2.190E-02	1.51	1.55E-02	1.51
1952	4.71E-01	1.90	5.19E-01	1.89	2.31E-01	1.89	3.460E-01	1.90	2.59E-01	1.90
1953	4.18E+00	2.50	4.57E+00	2.49	2.05E+00	2.49	3.060E+00	2.50	2.29E+00	2.50
1954	8.75E+00	2.46	9.58E+00	2.45	4.29E+00	2.45	6.400E+00	2.46	4.80E+00	2.46
1955	3.46E-01	1.66	3.83E-01	1.65	1.70E-01	1.65	2.540E-01	1.65	1.90E-01	1.66
1956	3.65E-01	1.60	3.82E-01	1.61	1.71E-01	1.61	2.740E-01	1.59	2.02E-01	1.60
1957	4.95E-01	1.53	5.09E-01	1.54	2.27E-01	1.54	3.740E-01	1.53	2.74E-01	1.53
1958	4.37E-01	1.54	4.40E-01	1.54	1.95E-01	1.54	3.340E-01	1.53	2.43E-01	1.53
1959	4.17E-01	1.52	4.06E-01	1.51	1.80E-01	1.51	3.230E-01	1.52	2.33E-01	1.52
1960	4.18E-01	1.54	4.01E-01	1.53	1.77E-01	1.53	3.260E-01	1.54	2.34E-01	1.53
1961	5.29E-01	1.52	5.22E-01	1.51	2.31E-01	1.52	4.080E-01	1.52	2.95E-01	1.51
1962	2.16E-01	1.60	1.96E-01	1.58	8.59E-02	1.58	1.730E-01	1.59	1.22E-01	1.59
1963	2.01E-01	1.62	1.84E-01	1.60	8.07E-02	1.60	1.610E-01	1.62	1.13E-01	1.62
1964	2.28E-01	1.61	2.09E-01	1.59	9.18E-02	1.59	1.820E-01	1.61	1.28E-01	1.60
1965	2.13E-01	1.59	1.97E-01	1.57	8.65E-02	1.57	1.690E-01	1.59	1.20E-01	1.58
1966	1.77E-01	1.62	1.71E-01	1.62	7.55E-02	1.62	1.380E-01	1.62	9.92E-02	1.62
1967	1.77E-01	1.64	1.56E-01	1.63	6.78E-02	1.63	1.430E-01	1.64	1.00E-01	1.63
1968	1.94E-01	1.64	1.71E-01	1.63	7.45E-02	1.63	1.570E-01	1.64	1.10E-01	1.63
1969	1.47E-01	1.64	1.29E-01	1.62	5.64E-02	1.62	1.190E-01	1.63	8.31E-02	1.62
1970	3.22E-02	1.98	2.84E-02	1.97	1.24E-02	1.97	2.610E-02	1.98	1.82E-02	1.97
1971	4.40E-02	1.80	3.88E-02	1.79	1.69E-02	1.79	3.570E-02	1.79	2.49E-02	1.79
1972	3.62E-03	2.43	3.19E-03	2.42	1.39E-03	2.42	2.940E-03	2.43	2.05E-03	2.42
All years from 1973 through 1983 have values of 0.00										
1984	8.59E-03	1.44	7.57E-03	1.42	3.30E-03	1.42	6.970E-03	1.43	4.87E-03	1.42
1985	2.58E-02	1.44	2.27E-02	1.42	9.91E-03	1.42	2.090E-02	1.43	1.46E-02	1.42
1986	1.72E-02	1.44	1.51E-02	1.42	6.60E-03	1.42	1.390E-02	1.43	9.73E-03	1.42
1987	8.59E-04	1.44	7.57E-04	1.42	3.30E-04	1.42	6.970E-04	1.43	4.87E-04	1.42
1988	7.73E-03	1.44	6.81E-03	1.42	2.97E-03	1.42	6.280E-03	1.43	4.38E-03	1.42
1989	9.45E-04	1.44	8.33E-04	1.42	3.63E-04	1.42	7.670E-04	1.43	5.35E-04	1.42
1990	1.20E-04	1.44	1.06E-04	1.42	4.62E-05	1.42	9.760E-05	1.43	6.81E-05	1.42
1991	1.25E-04	1.44	1.10E-04	1.42	4.79E-05	1.42	1.010E-04	1.43	7.06E-05	1.42
1992	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1993	1.72E-07	1.44	1.51E-07	1.42	6.60E-08	1.42	1.390E-07	1.43	9.73E-08	1.42
1994	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00
1995	7.73E-07	1.44	6.81E-07	1.42	2.97E-07	1.42	6.280E-07	1.43	4.38E-07	1.42
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	9.95E-04	2.70	9.40E-04	2.68	1.560E-03	2.69	2.00E-03	2.68	7.47E-03	2.69
1945	5.31E-01	1.57	3.95E-01	1.57	7.000E-01	1.57	1.10E+00	1.56	2.82E+00	1.59
1946	8.02E-01	1.53	5.55E-01	1.52	1.000E+00	1.53	1.67E+00	1.53	3.81E+00	1.54
1947	5.43E-01	1.51	3.93E-01	1.50	7.020E-01	1.51	1.13E+00	1.51	2.77E+00	1.52
1948	1.77E-01	1.69	1.28E-01	1.67	2.290E-01	1.68	3.68E-01	1.68	8.99E-01	1.70
1949	5.59E-03	1.52	4.16E-03	1.52	7.370E-03	1.52	1.16E-02	1.51	2.97E-02	1.54
1950	1.05E-02	1.52	7.62E-03	1.51	1.360E-02	1.52	2.17E-02	1.51	5.39E-02	1.53
1951	1.74E-02	1.52	1.29E-02	1.51	2.290E-02	1.52	3.61E-02	1.51	9.24E-02	1.53
1952	2.88E-01	1.90	3.19E-01	1.90	6.440E-01	1.90	6.20E-01	1.89	1.06E+00	1.88
1953	2.55E+00	2.50	2.85E+00	2.49	5.770E+00	2.50	5.50E+00	2.49	9.18E+00	2.50
1954	5.34E+00	2.46	5.97E+00	2.46	1.210E+01	2.46	1.15E+01	2.45	1.92E+01	2.46
1955	2.11E-01	1.66	2.35E-01	1.65	4.720E-01	1.66	4.54E-01	1.65	7.93E-01	1.64
1956	2.24E-01	1.60	2.20E-01	1.63	4.480E-01	1.63	4.90E-01	1.59	7.35E-01	1.62
1957	3.04E-01	1.53	2.83E-01	1.56	5.780E-01	1.56	6.68E-01	1.52	9.60E-01	1.55
1958	2.70E-01	1.54	2.33E-01	1.57	4.790E-01	1.56	5.94E-01	1.53	8.11E-01	1.56
1959	2.58E-01	1.52	2.00E-01	1.52	4.140E-01	1.52	5.73E-01	1.52	7.23E-01	1.52
1960	2.59E-01	1.54	1.90E-01	1.53	3.950E-01	1.53	5.78E-01	1.54	7.01E-01	1.53
1961	3.27E-01	1.52	2.65E-01	1.53	5.470E-01	1.53	7.25E-01	1.51	9.43E-01	1.52
1962	1.35E-01	1.59	7.92E-02	1.55	1.670E-01	1.56	3.05E-01	1.59	3.19E-01	1.57
1963	1.25E-01	1.62	7.63E-02	1.57	1.610E-01	1.58	2.83E-01	1.62	3.03E-01	1.59
1964	1.42E-01	1.61	8.76E-02	1.56	1.840E-01	1.57	3.20E-01	1.61	3.45E-01	1.58
1965	1.33E-01	1.58	8.40E-02	1.54	1.770E-01	1.55	2.99E-01	1.59	3.28E-01	1.56
1966	1.10E-01	1.62	8.15E-02	1.64	1.690E-01	1.64	2.45E-01	1.62	3.00E-01	1.63
1967	1.11E-01	1.64	5.68E-02	1.63	1.220E-01	1.63	2.52E-01	1.64	2.42E-01	1.63
1968	1.21E-01	1.64	6.24E-02	1.63	1.330E-01	1.64	2.76E-01	1.64	2.66E-01	1.64
1969	9.20E-02	1.63	4.72E-02	1.62	1.010E-01	1.63	2.09E-01	1.63	2.01E-01	1.63
1970	2.02E-02	1.98	1.04E-02	1.97	2.220E-02	1.98	4.59E-02	1.98	4.42E-02	1.98
1971	2.76E-02	1.80	1.42E-02	1.79	3.030E-02	1.79	6.27E-02	1.80	6.04E-02	1.79
1972	2.27E-03	2.43	1.16E-03	2.42	2.490E-03	2.43	5.16E-03	2.43	4.96E-03	2.42
All years from 1973 through 1983 have values of 0.00										
1984	5.38E-03	1.43	2.76E-03	1.42	5.920E-03	1.43	1.22E-02	1.43	1.18E-02	1.43
1985	1.61E-02	1.43	8.29E-03	1.42	1.780E-02	1.43	3.67E-02	1.43	3.54E-02	1.43
1986	1.08E-02	1.43	5.53E-03	1.42	1.180E-02	1.43	2.45E-02	1.43	2.36E-02	1.43
1987	5.38E-04	1.43	2.76E-04	1.42	5.920E-04	1.43	1.22E-03	1.43	1.18E-03	1.43
1988	4.84E-03	1.43	2.49E-03	1.42	5.330E-03	1.43	1.10E-02	1.43	1.06E-02	1.43
1989	5.92E-04	1.43	3.04E-04	1.42	6.510E-04	1.43	1.35E-03	1.43	1.30E-03	1.43
1990	7.54E-05	1.43	3.87E-05	1.42	8.290E-05	1.43	1.71E-04	1.43	1.65E-04	1.43
1991	7.81E-05	1.43	4.01E-05	1.42	8.580E-05	1.43	1.78E-04	1.43	1.71E-04	1.43
1992	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1993	1.08E-07	1.43	5.53E-08	1.42	1.180E-07	1.43	2.45E-07	1.43	2.36E-07	1.43
1994	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1995	4.84E-07	1.43	2.49E-07	1.42	5.330E-07	1.43	1.10E-06	1.43	1.06E-06	1.43
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.82E-03	2.70	5.870E-03	2.76	1.29E-03	2.68	9.75E-04	2.69	9.10E-04	2.68
1945	9.46E-01	1.58	2.200E+00	1.63	5.64E-01	1.57	5.26E-01	1.57	5.01E-01	1.56
1946	1.42E+00	1.54	2.970E+00	1.57	8.05E-01	1.52	7.96E-01	1.53	7.63E-01	1.52
1947	9.64E-01	1.52	2.170E+00	1.56	5.65E-01	1.51	5.38E-01	1.51	5.14E-01	1.51
1948	3.15E-01	1.69	7.010E-01	1.73	1.84E-01	1.67	1.76E-01	1.68	1.68E-01	1.68
1949	9.94E-03	1.53	2.330E-02	1.58	5.94E-03	1.52	5.53E-03	1.52	5.27E-03	1.51
1950	1.86E-02	1.53	4.210E-02	1.57	1.09E-02	1.51	1.04E-02	1.51	9.89E-03	1.51
1951	3.10E-02	1.53	7.230E-02	1.57	1.85E-02	1.51	1.73E-02	1.51	1.64E-02	1.51
1952	5.10E-01	1.91	9.670E-01	1.89	5.79E-01	1.90	3.26E-01	1.90	2.99E-01	1.89
1953	4.52E+00	2.51	8.440E+00	2.50	5.20E+00	2.49	2.90E+00	2.50	2.66E+00	2.49
1954	9.47E+00	2.47	1.770E+01	2.46	1.09E+01	2.45	6.07E+00	2.46	5.57E+00	2.45
1955	3.75E-01	1.66	7.220E-01	1.64	4.25E-01	1.66	2.39E-01	1.65	2.19E-01	1.65
1956	4.02E-01	1.60	6.670E-01	1.63	3.97E-01	1.63	2.50E-01	1.60	2.34E-01	1.59
1957	5.47E-01	1.53	8.670E-01	1.55	5.09E-01	1.56	3.38E-01	1.53	3.17E-01	1.52
1958	4.87E-01	1.54	7.280E-01	1.56	4.18E-01	1.57	2.97E-01	1.54	2.81E-01	1.53
1959	4.68E-01	1.53	6.400E-01	1.52	3.55E-01	1.52	2.81E-01	1.51	2.69E-01	1.51
1960	4.72E-01	1.55	6.160E-01	1.53	3.35E-01	1.53	2.81E-01	1.53	2.70E-01	1.53
1961	5.93E-01	1.52	8.390E-01	1.53	4.71E-01	1.53	3.58E-01	1.51	3.41E-01	1.51
1962	2.48E-01	1.61	2.730E-01	1.57	1.36E-01	1.55	1.43E-01	1.58	1.41E-01	1.58
1963	2.30E-01	1.63	2.600E-01	1.59	1.31E-01	1.57	1.34E-01	1.61	1.31E-01	1.61
1964	2.61E-01	1.62	2.980E-01	1.58	1.51E-01	1.56	1.51E-01	1.60	1.48E-01	1.60
1965	2.43E-01	1.60	2.830E-01	1.56	1.45E-01	1.54	1.42E-01	1.58	1.38E-01	1.58
1966	2.00E-01	1.63	2.640E-01	1.63	1.44E-01	1.65	1.19E-01	1.62	1.15E-01	1.62
1967	2.04E-01	1.65	2.040E-01	1.64	9.55E-02	1.63	1.16E-01	1.63	1.15E-01	1.63
1968	2.24E-01	1.65	2.240E-01	1.64	1.05E-01	1.63	1.28E-01	1.63	1.27E-01	1.63
1969	1.70E-01	1.65	1.690E-01	1.63	7.94E-02	1.62	9.67E-02	1.62	9.59E-02	1.62
1970	3.72E-02	1.99	3.720E-02	1.98	1.74E-02	1.97	2.12E-02	1.97	2.10E-02	1.97
1971	5.09E-02	1.81	5.080E-02	1.80	2.38E-02	1.79	2.90E-02	1.79	2.88E-02	1.79
1972	4.18E-03	2.44	4.180E-03	2.43	1.96E-03	2.42	2.38E-03	2.42	2.36E-03	2.42
All years from 1973 through 1983 have values of 0.00										
1984	9.93E-03	1.45	9.920E-03	1.43	4.65E-03	1.42	5.66E-03	1.42	5.62E-03	1.42
1985	2.98E-02	1.45	2.980E-02	1.43	1.39E-02	1.42	1.70E-02	1.42	1.68E-02	1.42
1986	1.99E-02	1.45	1.980E-02	1.43	9.30E-03	1.42	1.13E-02	1.42	1.12E-02	1.42
1987	9.93E-04	1.45	9.920E-04	1.43	4.65E-04	1.42	5.66E-04	1.42	5.62E-04	1.42
1988	8.94E-03	1.45	8.930E-03	1.43	4.18E-03	1.42	5.09E-03	1.42	5.05E-03	1.42
1989	1.09E-03	1.45	1.090E-03	1.43	5.11E-04	1.42	6.23E-04	1.42	6.18E-04	1.42
1990	1.39E-04	1.45	1.390E-04	1.43	6.51E-05	1.42	7.92E-05	1.42	7.86E-05	1.42
1991	1.44E-04	1.45	1.440E-04	1.43	6.74E-05	1.42	8.21E-05	1.42	8.14E-05	1.42
1992	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1993	1.99E-07	1.45	1.980E-07	1.43	9.30E-08	1.42	1.13E-07	1.42	1.12E-07	1.42
1994	0.00E+00	0.00	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1995	8.94E-07	1.45	8.930E-07	1.43	4.18E-07	1.42	5.09E-07	1.42	5.05E-07	1.42
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.100E-03	2.69	5.27E-04	2.68	1.33E-03	2.69	2.82E-03	2.69	1.270E-03	2.68
1945	5.660E-01	1.57	2.34E-01	1.56	7.25E-01	1.57	1.36E+00	1.57	7.450E-01	1.57
1946	8.460E-01	1.53	3.35E-01	1.52	1.10E+00	1.52	2.00E+00	1.53	1.150E+00	1.53
1947	5.760E-01	1.51	2.35E-01	1.50	7.43E-01	1.51	1.38E+00	1.51	7.690E-01	1.51
1948	1.880E-01	1.68	7.66E-02	1.67	2.43E-01	1.68	4.51E-01	1.68	2.510E-01	1.69
1949	5.950E-03	1.52	2.46E-03	1.51	7.62E-03	1.52	1.44E-02	1.52	7.830E-03	1.52
1950	1.110E-02	1.52	4.54E-03	1.51	1.43E-02	1.51	2.66E-02	1.52	1.480E-02	1.51
1951	1.860E-02	1.51	7.67E-03	1.51	2.38E-02	1.51	4.47E-02	1.52	2.450E-02	1.51
1952	3.840E-01	1.90	2.16E-01	1.90	4.11E-01	1.89	9.69E-01	1.90	3.950E-01	1.89
1953	3.420E+00	2.50	1.93E+00	2.49	3.65E+00	2.49	8.64E+00	2.49	3.500E+00	2.49
1954	7.170E+00	2.46	4.05E+00	2.45	7.65E+00	2.45	1.81E+01	2.45	7.330E+00	2.45
1955	2.820E-01	1.66	1.58E-01	1.66	3.02E-01	1.65	7.11E-01	1.65	2.890E-01	1.65
1956	2.880E-01	1.61	1.49E-01	1.63	3.23E-01	1.59	7.09E-01	1.61	3.200E-01	1.58
1957	3.850E-01	1.54	1.92E-01	1.56	4.39E-01	1.52	9.36E-01	1.54	4.400E-01	1.52
1958	3.340E-01	1.54	1.59E-01	1.56	3.89E-01	1.53	8.02E-01	1.55	3.960E-01	1.52
1959	3.100E-01	1.52	1.37E-01	1.52	3.74E-01	1.51	7.28E-01	1.52	3.880E-01	1.51
1960	3.060E-01	1.53	1.30E-01	1.53	3.76E-01	1.53	7.13E-01	1.54	3.950E-01	1.53
1961	3.970E-01	1.52	1.81E-01	1.53	4.73E-01	1.51	9.42E-01	1.52	4.880E-01	1.51
1962	1.510E-01	1.59	5.48E-02	1.55	1.97E-01	1.59	3.38E-01	1.60	2.140E-01	1.59
1963	1.420E-01	1.61	5.27E-02	1.57	1.83E-01	1.62	3.18E-01	1.62	1.980E-01	1.62
1964	1.610E-01	1.60	6.05E-02	1.56	2.07E-01	1.60	3.62E-01	1.60	2.230E-01	1.60
1965	1.510E-01	1.57	5.80E-02	1.54	1.94E-01	1.58	3.43E-01	1.58	2.080E-01	1.58
1966	1.310E-01	1.62	5.59E-02	1.64	1.60E-01	1.62	3.04E-01	1.63	1.670E-01	1.62
1967	1.200E-01	1.64	3.95E-02	1.62	1.62E-01	1.63	2.63E-01	1.66	1.790E-01	1.62
1968	1.320E-01	1.64	4.34E-02	1.63	1.78E-01	1.63	2.89E-01	1.66	1.960E-01	1.63
1969	1.000E-01	1.63	3.29E-02	1.62	1.35E-01	1.62	2.19E-01	1.65	1.480E-01	1.62
1970	2.190E-02	1.98	7.21E-03	1.97	2.95E-02	1.97	4.79E-02	2.00	3.260E-02	1.97
1971	3.000E-02	1.80	9.86E-03	1.78	4.04E-02	1.79	6.55E-02	1.82	4.450E-02	1.78
1972	2.470E-03	2.43	8.11E-04	2.42	3.32E-03	2.42	5.39E-03	2.45	3.660E-03	2.42
All years from 1973 through 1983 have values of 0.00										
1984	5.860E-03	1.43	1.92E-03	1.41	7.89E-03	1.42	1.28E-02	1.46	8.690E-03	1.42
1985	1.760E-02	1.43	5.77E-03	1.41	2.37E-02	1.42	3.84E-02	1.46	2.610E-02	1.42
1986	1.170E-02	1.43	3.85E-03	1.41	1.58E-02	1.42	2.56E-02	1.46	1.740E-02	1.42
1987	5.860E-04	1.43	1.92E-04	1.41	7.89E-04	1.42	1.28E-03	1.46	8.690E-04	1.42
1988	5.270E-03	1.43	1.73E-03	1.41	7.10E-03	1.42	1.15E-02	1.46	7.820E-03	1.42
1989	6.440E-04	1.43	2.12E-04	1.41	8.68E-04	1.42	1.41E-03	1.46	9.560E-04	1.42
1990	8.200E-05	1.43	2.69E-05	1.41	1.10E-04	1.42	1.79E-04	1.46	1.220E-04	1.42
1991	8.490E-05	1.43	2.79E-05	1.41	1.14E-04	1.42	1.85E-04	1.46	1.260E-04	1.42
1992	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1993	1.170E-07	1.43	3.85E-08	1.41	1.58E-07	1.42	2.56E-07	1.46	1.740E-07	1.42
1994	0.000E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00
1995	5.270E-07	1.43	1.73E-07	1.41	7.10E-07	1.42	1.15E-06	1.46	7.820E-07	1.42
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.50E-03	2.69	2.19E-03	2.69	1.57E-03	2.70	2.140E-03	2.69	3.28E-03	2.70
1945	7.52E-01	1.57	8.15E-01	1.58	6.05E-01	1.59	9.050E-01	1.57	3.20E+00	1.60
1946	1.12E+00	1.53	1.10E+00	1.53	8.25E-01	1.54	1.270E+00	1.52	5.42E+00	1.55
1947	7.64E-01	1.51	8.01E-01	1.51	5.97E-01	1.52	9.020E-01	1.51	3.43E+00	1.54
1948	2.49E-01	1.68	2.60E-01	1.69	1.94E-01	1.70	2.940E-01	1.68	1.11E+00	1.75
1949	7.91E-03	1.52	8.61E-03	1.53	6.38E-03	1.54	9.530E-03	1.52	3.36E-02	1.54
1950	1.47E-02	1.51	1.56E-02	1.52	1.16E-02	1.53	1.750E-02	1.51	6.53E-02	1.54
1951	2.47E-02	1.51	2.67E-02	1.52	1.98E-02	1.53	2.970E-02	1.51	1.05E-01	1.54
1952	5.28E-01	1.89	5.55E-01	1.91	7.16E-01	1.92	1.160E+00	1.91	7.76E-01	1.87
1953	4.71E+00	2.49	4.93E+00	2.51	6.44E+00	2.51	1.040E+01	2.50	6.68E+00	2.49
1954	9.86E+00	2.45	1.03E+01	2.47	1.35E+01	2.47	2.180E+01	2.46	1.40E+01	2.45
1955	3.87E-01	1.65	4.11E-01	1.66	5.26E-01	1.67	8.470E-01	1.66	5.60E-01	1.64
1956	3.89E-01	1.60	3.77E-01	1.64	4.71E-01	1.66	7.720E-01	1.65	1.36E+00	1.57
1957	5.16E-01	1.53	4.84E-01	1.57	5.91E-01	1.59	9.750E-01	1.58	2.26E+00	1.53
1958	4.44E-01	1.54	3.98E-01	1.58	4.72E-01	1.60	7.850E-01	1.59	2.43E+00	1.57
1959	4.06E-01	1.51	3.39E-01	1.53	3.80E-01	1.55	6.430E-01	1.54	2.96E+00	1.58
1960	3.99E-01	1.53	3.20E-01	1.54	3.47E-01	1.56	5.940E-01	1.54	3.27E+00	1.60
1961	5.24E-01	1.51	4.50E-01	1.54	5.16E-01	1.56	8.670E-01	1.55	3.45E+00	1.58
1962	1.92E-01	1.58	1.31E-01	1.55	1.21E-01	1.54	2.180E-01	1.54	2.26E+00	1.62
1963	1.80E-01	1.61	1.27E-01	1.57	1.20E-01	1.56	2.150E-01	1.56	2.03E+00	1.67
1964	2.05E-01	1.59	1.46E-01	1.55	1.40E-01	1.55	2.490E-01	1.55	2.26E+00	1.65
1965	1.94E-01	1.57	1.40E-01	1.54	1.37E-01	1.54	2.430E-01	1.53	2.06E+00	1.64
1966	1.70E-01	1.62	1.37E-01	1.65	1.49E-01	1.69	2.550E-01	1.67	1.34E+00	1.70
1967	1.51E-01	1.64	9.26E-02	1.62	7.41E-02	1.64	1.410E-01	1.63	2.08E+00	1.63
1968	1.65E-01	1.64	1.02E-01	1.62	8.14E-02	1.64	1.550E-01	1.63	2.28E+00	1.63
1969	1.25E-01	1.63	7.70E-02	1.61	6.16E-02	1.63	1.180E-01	1.62	1.73E+00	1.62
1970	2.75E-02	1.98	1.69E-02	1.96	1.35E-02	1.98	2.580E-02	1.97	3.79E-01	1.97
1971	3.76E-02	1.80	2.31E-02	1.78	1.85E-02	1.80	3.530E-02	1.79	5.18E-01	1.79
1972	3.09E-03	2.43	1.90E-03	2.41	1.52E-03	2.43	2.900E-03	2.42	4.25E-02	2.42
All years from 1973 through 1983 have values of 0.00										
1984	7.34E-03	1.43	4.51E-03	1.41	3.61E-03	1.44	6.880E-03	1.42	1.01E-01	1.42
1985	2.20E-02	1.43	1.35E-02	1.41	1.08E-02	1.44	2.070E-02	1.42	3.03E-01	1.42
1986	1.47E-02	1.43	9.02E-03	1.41	7.22E-03	1.44	1.380E-02	1.42	2.02E-01	1.42
1987	7.34E-04	1.43	4.51E-04	1.41	3.61E-04	1.44	6.880E-04	1.42	1.01E-02	1.42
1988	6.60E-03	1.43	4.06E-03	1.41	3.25E-03	1.44	6.200E-03	1.42	9.09E-02	1.42
1989	8.07E-04	1.43	4.96E-04	1.41	3.97E-04	1.44	7.570E-04	1.42	1.11E-02	1.42
1990	1.03E-04	1.43	6.31E-05	1.41	5.05E-05	1.44	9.640E-05	1.42	1.41E-03	1.42
1991	1.06E-04	1.43	6.54E-05	1.41	5.23E-05	1.44	9.980E-05	1.42	1.47E-03	1.42
1992	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1993	1.47E-07	1.43	9.02E-08	1.41	7.22E-08	1.44	1.380E-07	1.42	2.02E-06	1.42
1994	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00	0.00E+00	0.00
1995	6.60E-07	1.43	4.06E-07	1.41	3.25E-07	1.44	6.200E-07	1.42	9.09E-06	1.42
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-15. Nuclide Ru/Rh106, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	1.61E-03	2.70	3.39E-03	2.69	1.190E-02	2.87				
1945	6.32E-01	1.59	2.80E+00	1.60	3.500E+00	1.81				
1946	8.67E-01	1.53	4.63E+00	1.55	4.240E+00	1.74				
1947	6.24E-01	1.52	2.97E+00	1.54	3.340E+00	1.72				
1948	2.03E-01	1.69	9.65E-01	1.73	1.060E+00	1.94				
1949	6.66E-03	1.54	2.94E-02	1.54	3.730E-02	1.75				
1950	1.21E-02	1.53	5.67E-02	1.54	6.540E-02	1.73				
1951	2.07E-02	1.53	9.22E-02	1.53	1.150E-01	1.74				
1952	8.05E-01	1.91	7.99E-01	1.88	1.130E+00	1.89				
1953	7.25E+00	2.50	6.92E+00	2.49	9.580E+00	2.51				
1954	1.52E+01	2.46	1.45E+01	2.45	2.010E+01	2.47				
1955	5.91E-01	1.66	5.79E-01	1.65	8.690E-01	1.64				
1956	5.29E-01	1.65	1.07E+00	1.56	7.220E-01	1.66				
1957	6.63E-01	1.58	1.70E+00	1.53	9.170E-01	1.59				
1958	5.27E-01	1.60	1.76E+00	1.56	7.470E-01	1.59				
1959	4.23E-01	1.55	2.05E+00	1.58	6.260E-01	1.54				
1960	3.86E-01	1.55	2.23E+00	1.60	5.860E-01	1.55				
1961	5.76E-01	1.56	2.42E+00	1.57	8.360E-01	1.55				
1962	1.32E-01	1.54	1.49E+00	1.63	2.290E-01	1.56				
1963	1.32E-01	1.55	1.34E+00	1.68	2.230E-01	1.57				
1964	1.54E-01	1.54	1.50E+00	1.66	2.570E-01	1.56				
1965	1.51E-01	1.54	1.37E+00	1.64	2.490E-01	1.55				
1966	1.66E-01	1.69	9.23E-01	1.70	2.510E-01	1.67				
1967	8.02E-02	1.64	1.35E+00	1.65	1.560E-01	1.64				
1968	8.80E-02	1.64	1.48E+00	1.65	1.710E-01	1.64				
1969	6.67E-02	1.63	1.12E+00	1.64	1.300E-01	1.63				
1970	1.46E-02	1.98	2.46E-01	1.99	2.850E-02	1.98				
1971	2.00E-02	1.80	3.37E-01	1.81	3.890E-02	1.80				
1972	1.64E-03	2.43	2.77E-02	2.44	3.200E-03	2.43				
All years from 1973 through 1983 have values of 0.00										
1984	3.90E-03	1.43	6.58E-02	1.44	7.600E-03	1.44				
1985	1.17E-02	1.43	1.97E-01	1.44	2.280E-02	1.44				
1986	7.81E-03	1.43	1.32E-01	1.44	1.520E-02	1.44				
1987	3.90E-04	1.43	6.58E-03	1.44	7.600E-04	1.44				
1988	3.51E-03	1.43	5.92E-02	1.44	6.840E-03	1.44				
1989	4.29E-04	1.43	7.24E-03	1.44	8.360E-04	1.44				
1990	5.46E-05	1.43	9.21E-04	1.44	1.060E-04	1.44				
1991	5.66E-05	1.43	9.54E-04	1.44	1.100E-04	1.44				
1992	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1993	7.81E-08	1.43	1.32E-06	1.44	1.520E-07	1.44				
1994	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1995	3.51E-07	1.43	5.92E-06	1.44	6.840E-07	1.44				
1996	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1997	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1998	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1999	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
2000	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
2001	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1996 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103. Bq/yr

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.83E-01	2.87	4.110E-02	2.70	8.91E-02	2.73	3.92E-02	2.70	1.11E-01	2.76
1945	2.79E+01	1.79	3.400E+01	1.68	1.47E+01	1.63	2.30E+01	1.64	1.78E+01	1.66
1946	2.10E+01	1.71	4.280E+01	1.64	1.17E+01	1.57	2.78E+01	1.61	1.39E+01	1.60
1947	1.57E+01	1.73	2.130E+01	1.62	8.32E+00	1.57	1.43E+01	1.59	1.00E+01	1.61
1948	3.18E+00	1.94	4.300E+00	1.85	1.70E+00	1.77	2.90E+00	1.80	2.05E+00	1.81
1949	9.76E-02	1.76	1.080E-01	1.62	5.08E-02	1.60	7.38E-02	1.59	6.18E-02	1.63
1950	1.73E-01	1.75	2.220E-01	1.63	9.13E-02	1.59	1.49E-01	1.60	1.10E-01	1.62
1951	5.37E-01	1.74	6.120E-01	1.61	2.80E-01	1.58	4.17E-01	1.58	3.40E-01	1.62
1952	3.04E+00	1.94	1.850E+00	1.91	2.60E+01	2.01	1.79E+00	1.93	5.98E+00	1.99
1953	2.57E+01	2.59	1.530E+01	2.57	2.47E+02	2.59	1.55E+01	2.58	5.50E+01	2.59
1954	6.09E+01	2.65	3.630E+01	2.63	5.84E+02	2.65	3.67E+01	2.63	1.30E+02	2.65
1955	2.56E+00	1.60	1.320E+00	1.61	1.96E+01	1.66	1.33E+00	1.61	4.64E+00	1.64
1956	1.86E+00	1.63	1.680E+00	1.54	1.65E+01	1.65	2.34E+00	1.56	3.78E+00	1.64
1957	2.82E+00	1.60	3.100E+00	1.51	2.35E+01	1.64	4.74E+00	1.57	5.51E+00	1.62
1958	2.86E+00	1.63	3.410E+00	1.55	2.30E+01	1.68	5.38E+00	1.62	5.47E+00	1.66
1959	1.13E+00	1.54	3.120E+00	1.60	4.41E+00	1.64	6.02E+00	1.67	1.48E+00	1.56
1960	1.28E+00	1.55	3.400E+00	1.62	5.25E+00	1.65	6.52E+00	1.69	1.71E+00	1.57
1961	1.59E+00	1.56	3.300E+00	1.57	9.02E+00	1.68	6.05E+00	1.65	2.49E+00	1.61
1962	3.75E-01	1.59	1.220E+00	1.64	1.01E+00	1.67	2.40E+00	1.71	4.23E-01	1.57
1963	3.03E-01	1.61	1.020E+00	1.67	7.41E-01	1.65	2.01E+00	1.73	3.30E-01	1.58
1964	3.61E-01	1.62	1.270E+00	1.67	7.65E-01	1.58	2.51E+00	1.74	3.75E-01	1.58
1965	3.46E-01	1.56	1.000E+00	1.63	1.23E+00	1.63	1.95E+00	1.70	4.34E-01	1.55
1966	2.46E-01	1.65	6.270E-01	1.78	1.05E+00	1.76	1.19E+00	1.86	3.36E-01	1.66
1967	1.34E-01	1.71	5.470E-01	1.71	1.09E-01	1.71	1.10E+00	1.76	1.12E-01	1.71
1968	6.93E-02	1.70	2.820E-01	1.70	5.64E-02	1.70	5.67E-01	1.76	5.77E-02	1.70
1969	2.58E-02	1.69	1.050E-01	1.69	2.10E-02	1.69	2.11E-01	1.75	2.15E-02	1.69
1970	5.54E-03	2.32	2.260E-02	2.32	4.50E-03	2.32	4.53E-02	2.37	4.61E-03	2.33
1971	3.12E-03	2.38	1.270E-02	2.38	2.53E-03	2.38	2.55E-02	2.43	2.60E-03	2.38
1972	1.34E-04	2.40	5.460E-04	2.40	1.09E-04	2.40	1.10E-03	2.45	1.12E-04	2.40
All years from 1973 through 1983 have values of 0.00										
1984	1.90E-05	1.44	7.730E-05	1.43	1.54E-05	1.43	1.55E-04	1.51	1.58E-05	1.44
1985	1.97E-02	1.44	8.040E-02	1.43	1.60E-02	1.43	1.62E-01	1.51	1.64E-02	1.44
1986	7.60E-04	1.44	3.090E-03	1.43	6.17E-04	1.43	6.22E-03	1.51	6.33E-04	1.44
1987	7.60E-06	1.44	3.090E-05	1.43	6.17E-06	1.43	6.22E-05	1.51	6.33E-06	1.44
1988	1.90E-05	1.44	7.730E-05	1.43	1.54E-05	1.43	1.55E-04	1.51	1.58E-05	1.44
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.370E-02	2.69	2.71E-02	2.69	2.78E-02	2.71	2.26E-02	2.71	2.020E-02	2.70
1945	6.010E+00	1.55	7.52E+00	1.55	8.00E+00	1.56	6.46E+00	1.56	5.780E+00	1.56
1946	5.920E+00	1.53	7.65E+00	1.53	8.25E+00	1.54	6.63E+00	1.53	5.940E+00	1.53
1947	3.540E+00	1.51	4.46E+00	1.51	4.76E+00	1.52	3.84E+00	1.52	3.440E+00	1.52
1948	7.320E-01	1.68	9.22E-01	1.68	9.83E-01	1.69	7.93E-01	1.69	7.090E-01	1.68
1949	2.000E-02	1.52	2.49E-02	1.52	2.64E-02	1.52	2.13E-02	1.52	1.910E-02	1.52
1950	3.800E-02	1.52	4.77E-02	1.52	5.08E-02	1.53	4.10E-02	1.53	3.670E-02	1.52
1951	1.110E-01	1.51	1.39E-01	1.51	1.48E-01	1.52	1.19E-01	1.52	1.070E-01	1.51
1952	9.840E-01	1.96	1.24E+00	1.97	1.37E+00	1.98	1.12E+00	1.98	1.000E+00	1.97
1953	8.850E+00	2.58	1.12E+01	2.58	1.24E+01	2.59	1.02E+01	2.59	9.080E+00	2.58
1954	2.100E+01	2.63	2.66E+01	2.63	2.93E+01	2.64	2.41E+01	2.64	2.150E+01	2.64
1955	7.620E-01	1.61	9.57E-01	1.62	1.05E+00	1.63	8.63E-01	1.63	7.700E-01	1.63
1956	7.170E-01	1.58	9.45E-01	1.57	1.05E+00	1.58	8.54E-01	1.58	7.610E-01	1.57
1957	1.160E+00	1.54	1.56E+00	1.54	1.73E+00	1.54	1.41E+00	1.54	1.250E+00	1.54
1958	1.210E+00	1.57	1.65E+00	1.56	1.83E+00	1.56	1.48E+00	1.56	1.320E+00	1.56
1959	7.030E-01	1.55	1.05E+00	1.57	1.18E+00	1.57	9.37E-01	1.56	8.300E-01	1.56
1960	7.790E-01	1.57	1.15E+00	1.58	1.30E+00	1.58	1.03E+00	1.58	9.160E-01	1.58
1961	8.530E-01	1.53	1.23E+00	1.54	1.38E+00	1.54	1.10E+00	1.54	9.800E-01	1.54
1962	2.570E-01	1.61	3.89E-01	1.62	4.39E-01	1.62	3.47E-01	1.62	3.070E-01	1.62
1963	2.110E-01	1.63	3.20E-01	1.64	3.62E-01	1.64	2.86E-01	1.64	2.530E-01	1.64
1964	2.590E-01	1.65	3.94E-01	1.66	4.46E-01	1.66	3.52E-01	1.65	3.120E-01	1.65
1965	2.210E-01	1.58	3.31E-01	1.60	3.73E-01	1.60	2.96E-01	1.59	2.620E-01	1.59
1966	1.470E-01	1.70	2.16E-01	1.72	2.44E-01	1.72	1.94E-01	1.72	1.720E-01	1.72
1967	1.060E-01	1.70	1.63E-01	1.70	1.85E-01	1.70	1.46E-01	1.70	1.290E-01	1.70
1968	5.460E-02	1.69	8.44E-02	1.70	9.55E-02	1.70	7.53E-02	1.69	6.660E-02	1.69
1969	2.030E-02	1.68	3.14E-02	1.68	3.56E-02	1.68	2.81E-02	1.68	2.480E-02	1.68
1970	4.360E-03	2.32	6.74E-03	2.32	7.63E-03	2.32	6.02E-03	2.32	5.320E-03	2.32
1971	2.450E-03	2.37	3.80E-03	2.37	4.30E-03	2.37	3.39E-03	2.37	3.000E-03	2.37
1972	1.060E-04	2.39	1.63E-04	2.39	1.85E-04	2.39	1.46E-04	2.39	1.290E-04	2.39
All years from 1973 through 1983 have values of 0.00										
1984	1.490E-05	1.42	2.31E-05	1.43	2.62E-05	1.43	2.06E-05	1.42	1.820E-05	1.43
1985	1.550E-02	1.42	2.40E-02	1.43	2.72E-02	1.43	2.15E-02	1.42	1.900E-02	1.43
1986	5.980E-04	1.42	9.25E-04	1.43	1.05E-03	1.43	8.25E-04	1.42	7.300E-04	1.43
1987	5.980E-06	1.42	9.25E-06	1.43	1.05E-05	1.43	8.25E-06	1.42	7.300E-06	1.43
1988	1.490E-05	1.42	2.31E-05	1.43	2.62E-05	1.43	2.06E-05	1.42	1.820E-05	1.43
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.46E-02	2.70	3.56E-02	2.70	1.28E-02	2.69	1.890E-02	2.70	1.34E-02	2.70
1945	6.96E+00	1.56	8.58E+00	1.55	3.20E+00	1.55	5.440E+00	1.56	3.85E+00	1.56
1946	7.12E+00	1.54	8.31E+00	1.52	3.14E+00	1.52	5.610E+00	1.53	3.96E+00	1.53
1947	4.13E+00	1.52	5.04E+00	1.51	1.88E+00	1.51	3.240E+00	1.52	2.29E+00	1.52
1948	8.54E-01	1.69	1.04E+00	1.67	3.89E-01	1.68	6.690E-01	1.69	4.73E-01	1.68
1949	2.30E-02	1.53	2.87E-02	1.52	1.07E-02	1.52	1.800E-02	1.52	1.27E-02	1.52
1950	4.42E-02	1.53	5.42E-02	1.52	2.02E-02	1.52	3.460E-02	1.52	2.45E-02	1.52
1951	1.28E-01	1.52	1.60E-01	1.51	5.93E-02	1.51	1.000E-01	1.51	7.10E-02	1.51
1952	1.24E+00	1.98	1.37E+00	1.96	6.06E-01	1.97	9.070E-01	1.97	6.78E-01	1.97
1953	1.12E+01	2.59	1.23E+01	2.58	5.49E+00	2.58	8.190E+00	2.58	6.14E+00	2.58
1954	2.65E+01	2.64	2.90E+01	2.63	1.30E+01	2.63	1.940E+01	2.63	1.45E+01	2.64
1955	9.49E-01	1.63	1.06E+00	1.61	4.68E-01	1.62	6.970E-01	1.62	5.21E-01	1.63
1956	9.30E-01	1.58	9.77E-01	1.58	4.36E-01	1.58	6.950E-01	1.57	5.13E-01	1.57
1957	1.52E+00	1.54	1.56E+00	1.54	6.97E-01	1.55	1.150E+00	1.53	8.43E-01	1.54
1958	1.60E+00	1.57	1.63E+00	1.57	7.25E-01	1.57	1.220E+00	1.56	8.88E-01	1.56
1959	9.86E-01	1.57	9.08E-01	1.55	3.98E-01	1.55	7.850E-01	1.57	5.55E-01	1.56
1960	1.09E+00	1.58	1.01E+00	1.57	4.42E-01	1.57	8.650E-01	1.58	6.13E-01	1.58
1961	1.17E+00	1.54	1.12E+00	1.53	4.93E-01	1.53	9.180E-01	1.54	6.57E-01	1.54
1962	3.64E-01	1.62	3.29E-01	1.61	1.44E-01	1.61	2.920E-01	1.62	2.05E-01	1.61
1963	3.00E-01	1.65	2.70E-01	1.63	1.18E-01	1.63	2.410E-01	1.65	1.69E-01	1.64
1964	3.68E-01	1.66	3.30E-01	1.64	1.44E-01	1.64	2.970E-01	1.66	2.08E-01	1.65
1965	3.11E-01	1.60	2.85E-01	1.58	1.25E-01	1.58	2.480E-01	1.60	1.75E-01	1.59
1966	2.04E-01	1.72	1.90E-01	1.69	8.35E-02	1.69	1.620E-01	1.72	1.15E-01	1.71
1967	1.52E-01	1.71	1.34E-01	1.70	5.84E-02	1.70	1.230E-01	1.70	8.60E-02	1.70
1968	7.85E-02	1.70	6.91E-02	1.69	3.01E-02	1.69	6.370E-02	1.70	4.44E-02	1.69
1969	2.92E-02	1.69	2.57E-02	1.68	1.12E-02	1.68	2.370E-02	1.69	1.65E-02	1.68
1970	6.27E-03	2.33	5.52E-03	2.32	2.41E-03	2.32	5.080E-03	2.32	3.55E-03	2.32
1971	3.53E-03	2.38	3.11E-03	2.37	1.36E-03	2.37	2.860E-03	2.38	2.00E-03	2.37
1972	1.52E-04	2.40	1.34E-04	2.39	5.83E-05	2.39	1.230E-04	2.39	8.60E-05	2.39
All years from 1973 through 1983 have values of 0.00										
1984	2.15E-05	1.44	1.89E-05	1.42	8.25E-06	1.42	1.740E-05	1.43	1.22E-05	1.42
1985	2.23E-02	1.44	1.97E-02	1.42	8.58E-03	1.42	1.810E-02	1.43	1.27E-02	1.42
1986	8.59E-04	1.44	7.57E-04	1.42	3.30E-04	1.42	6.970E-04	1.43	4.87E-04	1.42
1987	8.59E-06	1.44	7.57E-06	1.42	3.30E-06	1.42	6.970E-06	1.43	4.87E-06	1.42
1988	2.15E-05	1.44	1.89E-05	1.42	8.25E-06	1.42	1.740E-05	1.43	1.22E-05	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.53E-02	2.70	1.44E-02	2.69	2.400E-02	2.70	3.07E-02	2.69	1.15E-01	2.70
1945	4.33E+00	1.56	3.19E+00	1.55	5.670E+00	1.56	8.97E+00	1.55	2.27E+01	1.57
1946	4.43E+00	1.54	2.98E+00	1.52	5.440E+00	1.53	9.29E+00	1.53	2.01E+01	1.53
1947	2.57E+00	1.52	1.86E+00	1.51	3.320E+00	1.52	5.34E+00	1.51	1.31E+01	1.53
1948	5.31E-01	1.69	3.84E-01	1.68	6.870E-01	1.68	1.10E+00	1.68	2.70E+00	1.70
1949	1.43E-02	1.53	1.07E-02	1.52	1.900E-02	1.53	2.96E-02	1.52	7.70E-02	1.54
1950	2.75E-02	1.53	2.01E-02	1.52	3.570E-02	1.52	5.70E-02	1.52	1.42E-01	1.54
1951	7.99E-02	1.52	5.96E-02	1.51	1.050E-01	1.52	1.65E-01	1.51	4.27E-01	1.53
1952	7.54E-01	1.97	8.32E-01	1.98	1.670E+00	1.98	1.62E+00	1.96	2.81E+00	1.95
1953	6.83E+00	2.59	7.64E+00	2.58	1.550E+01	2.58	1.47E+01	2.57	2.46E+01	2.58
1954	1.62E+01	2.64	1.81E+01	2.63	3.660E+01	2.64	3.49E+01	2.63	5.83E+01	2.63
1955	5.79E-01	1.63	6.41E-01	1.62	1.280E+00	1.63	1.24E+00	1.62	2.25E+00	1.60
1956	5.70E-01	1.58	5.66E-01	1.60	1.150E+00	1.60	1.24E+00	1.56	1.88E+00	1.59
1957	9.36E-01	1.54	8.69E-01	1.57	1.780E+00	1.57	2.05E+00	1.53	2.95E+00	1.56
1958	9.86E-01	1.57	8.87E-01	1.60	1.820E+00	1.60	2.17E+00	1.56	3.04E+00	1.59
1959	6.15E-01	1.57	3.84E-01	1.53	8.070E-01	1.54	1.38E+00	1.57	1.50E+00	1.54
1960	6.78E-01	1.58	4.31E-01	1.55	9.050E-01	1.55	1.53E+00	1.58	1.68E+00	1.56
1961	7.28E-01	1.54	5.20E-01	1.54	1.080E+00	1.54	1.63E+00	1.54	1.94E+00	1.53
1962	2.27E-01	1.62	1.31E-01	1.58	2.770E-01	1.59	5.14E-01	1.62	5.31E-01	1.60
1963	1.87E-01	1.65	1.06E-01	1.61	2.250E-01	1.62	4.24E-01	1.65	4.33E-01	1.62
1964	2.30E-01	1.66	1.28E-01	1.62	2.710E-01	1.63	5.22E-01	1.66	5.26E-01	1.64
1965	1.94E-01	1.60	1.18E-01	1.56	2.490E-01	1.56	4.37E-01	1.60	4.68E-01	1.57
1966	1.27E-01	1.72	8.25E-02	1.65	1.730E-01	1.66	2.86E-01	1.72	3.19E-01	1.68
1967	9.51E-02	1.71	4.89E-02	1.69	1.050E-01	1.70	2.16E-01	1.70	2.08E-01	1.70
1968	4.91E-02	1.70	2.52E-02	1.69	5.400E-02	1.70	1.12E-01	1.70	1.08E-01	1.69
1969	1.83E-02	1.69	9.40E-03	1.68	2.010E-02	1.68	4.16E-02	1.69	4.01E-02	1.68
1970	3.93E-03	2.32	2.02E-03	2.31	4.320E-03	2.32	8.93E-03	2.32	8.60E-03	2.32
1971	2.21E-03	2.38	1.13E-03	2.37	2.430E-03	2.37	5.03E-03	2.38	4.84E-03	2.37
1972	9.51E-05	2.40	4.88E-05	2.39	1.050E-04	2.39	2.16E-04	2.39	2.08E-04	2.39
All years from 1973 through 1983 have values of 0.00										
1984	1.35E-05	1.43	6.91E-06	1.42	1.480E-05	1.43	3.06E-05	1.43	2.95E-05	1.43
1985	1.40E-02	1.43	7.19E-03	1.42	1.540E-02	1.43	3.18E-02	1.43	3.07E-02	1.43
1986	5.38E-04	1.43	2.76E-04	1.42	5.920E-04	1.43	1.22E-03	1.43	1.18E-03	1.43
1987	5.38E-06	1.43	2.76E-06	1.42	5.920E-06	1.43	1.22E-05	1.43	1.18E-05	1.43
1988	1.35E-05	1.43	6.91E-06	1.42	1.480E-05	1.43	3.06E-05	1.43	2.95E-05	1.43
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.79E-02	2.71	9.010E-02	2.76	1.97E-02	2.69	1.50E-02	2.69	1.40E-02	2.69
1945	7.70E+00	1.57	1.770E+01	1.61	4.56E+00	1.55	4.29E+00	1.56	4.09E+00	1.55
1946	7.81E+00	1.55	1.560E+01	1.55	4.34E+00	1.52	4.41E+00	1.53	4.23E+00	1.53
1947	4.56E+00	1.53	1.020E+01	1.56	2.67E+00	1.51	2.55E+00	1.52	2.43E+00	1.51
1948	9.43E-01	1.70	2.110E+00	1.74	5.52E-01	1.68	5.26E-01	1.68	5.03E-01	1.68
1949	2.55E-02	1.53	6.030E-02	1.59	1.53E-02	1.52	1.42E-02	1.52	1.35E-02	1.52
1950	4.88E-02	1.54	1.110E-01	1.58	2.88E-02	1.52	2.72E-02	1.52	2.60E-02	1.52
1951	1.42E-01	1.53	3.340E-01	1.57	8.50E-02	1.51	7.90E-02	1.51	7.53E-02	1.51
1952	1.34E+00	1.98	2.560E+00	1.95	1.51E+00	1.98	8.52E-01	1.97	7.83E-01	1.97
1953	1.21E+01	2.59	2.260E+01	2.58	1.39E+01	2.58	7.76E+00	2.58	7.12E+00	2.57
1954	2.87E+01	2.64	5.360E+01	2.63	3.30E+01	2.63	1.84E+01	2.63	1.69E+01	2.63
1955	1.03E+00	1.63	2.040E+00	1.61	1.15E+00	1.63	6.52E-01	1.62	5.99E-01	1.62
1956	1.02E+00	1.58	1.710E+00	1.60	1.02E+00	1.60	6.38E-01	1.57	5.94E-01	1.57
1957	1.68E+00	1.54	2.670E+00	1.56	1.56E+00	1.57	1.04E+00	1.54	9.76E-01	1.53
1958	1.78E+00	1.57	2.740E+00	1.59	1.59E+00	1.60	1.09E+00	1.56	1.03E+00	1.56
1959	1.13E+00	1.58	1.300E+00	1.55	6.63E-01	1.53	6.56E-01	1.56	6.40E-01	1.56
1960	1.24E+00	1.59	1.450E+00	1.56	7.46E-01	1.55	7.25E-01	1.57	7.07E-01	1.57
1961	1.33E+00	1.55	1.700E+00	1.54	9.14E-01	1.54	7.86E-01	1.53	7.58E-01	1.53
1962	4.18E-01	1.63	4.530E-01	1.60	2.24E-01	1.58	2.41E-01	1.61	2.37E-01	1.61
1963	3.44E-01	1.66	3.690E-01	1.63	1.81E-01	1.61	1.98E-01	1.64	1.95E-01	1.64
1964	4.24E-01	1.67	4.470E-01	1.64	2.17E-01	1.62	2.43E-01	1.65	2.40E-01	1.65
1965	3.56E-01	1.61	4.030E-01	1.57	2.04E-01	1.56	2.07E-01	1.59	2.02E-01	1.59
1966	2.33E-01	1.73	2.760E-01	1.67	1.43E-01	1.65	1.36E-01	1.71	1.33E-01	1.71
1967	1.76E-01	1.72	1.750E-01	1.71	8.22E-02	1.70	1.00E-01	1.70	9.92E-02	1.69
1968	9.07E-02	1.71	9.060E-02	1.70	4.24E-02	1.69	5.17E-02	1.69	5.13E-02	1.69
1969	3.38E-02	1.70	3.370E-02	1.69	1.58E-02	1.68	1.92E-02	1.68	1.91E-02	1.68
1970	7.25E-03	2.33	7.240E-03	2.32	3.39E-03	2.32	4.13E-03	2.32	4.09E-03	2.31
1971	4.08E-03	2.39	4.070E-03	2.38	1.91E-03	2.37	2.32E-03	2.37	2.31E-03	2.37
1972	1.75E-04	2.41	1.750E-04	2.40	8.21E-05	2.39	1.00E-04	2.39	9.92E-05	2.39
All years from 1973 through 1983 have values of 0.00										
1984	2.48E-05	1.45	2.480E-05	1.43	1.16E-05	1.42	1.42E-05	1.42	1.40E-05	1.42
1985	2.58E-02	1.45	2.580E-02	1.43	1.21E-02	1.42	1.47E-02	1.42	1.46E-02	1.42
1986	9.93E-04	1.45	9.920E-04	1.43	4.65E-04	1.42	5.66E-04	1.42	5.62E-04	1.42
1987	9.93E-06	1.45	9.920E-06	1.43	4.65E-06	1.42	5.66E-06	1.42	5.62E-06	1.42
1988	2.48E-05	1.45	2.480E-05	1.43	1.16E-05	1.42	1.42E-05	1.42	1.40E-05	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.690E-02	2.70	8.09E-03	2.69	2.04E-02	2.70	4.33E-02	2.70	1.940E-02	2.69
1945	4.600E+00	1.56	1.90E+00	1.55	5.91E+00	1.56	1.11E+01	1.56	6.090E+00	1.56
1946	4.660E+00	1.53	1.81E+00	1.52	6.11E+00	1.53	1.10E+01	1.54	6.440E+00	1.53
1947	2.730E+00	1.52	1.11E+00	1.51	3.52E+00	1.51	6.53E+00	1.52	3.640E+00	1.52
1948	5.640E-01	1.68	2.30E-01	1.67	7.27E-01	1.68	1.35E+00	1.69	7.510E-01	1.69
1949	1.520E-02	1.52	6.34E-03	1.52	1.95E-02	1.52	3.69E-02	1.53	2.000E-02	1.52
1950	2.920E-02	1.52	1.19E-02	1.52	3.76E-02	1.52	7.01E-02	1.53	3.880E-02	1.52
1951	8.510E-02	1.51	3.53E-02	1.51	1.09E-01	1.51	2.05E-01	1.52	1.120E-01	1.51
1952	1.000E+00	1.97	5.61E-01	1.98	1.08E+00	1.97	2.53E+00	1.97	1.030E+00	1.96
1953	9.170E+00	2.58	5.17E+00	2.58	9.78E+00	2.58	2.31E+01	2.58	9.370E+00	2.57
1954	2.170E+01	2.64	1.23E+01	2.63	2.32E+01	2.63	5.48E+01	2.63	2.220E+01	2.63
1955	7.680E-01	1.63	4.29E-01	1.63	8.26E-01	1.62	1.94E+00	1.62	7.910E-01	1.61
1956	7.360E-01	1.58	3.85E-01	1.60	8.20E-01	1.57	1.81E+00	1.58	8.100E-01	1.56
1957	1.180E+00	1.55	5.92E-01	1.57	1.35E+00	1.53	2.88E+00	1.55	1.350E+00	1.52
1958	1.230E+00	1.57	6.04E-01	1.60	1.42E+00	1.56	2.99E+00	1.58	1.440E+00	1.55
1959	6.980E-01	1.56	2.65E-01	1.53	8.96E-01	1.56	1.58E+00	1.57	9.630E-01	1.56
1960	7.740E-01	1.57	2.97E-01	1.54	9.89E-01	1.58	1.75E+00	1.58	1.060E+00	1.58
1961	8.550E-01	1.54	3.57E-01	1.53	1.06E+00	1.53	1.98E+00	1.54	1.110E+00	1.53
1962	2.530E-01	1.61	9.06E-02	1.58	3.32E-01	1.61	5.64E-01	1.63	3.610E-01	1.61
1963	2.080E-01	1.64	7.35E-02	1.61	2.74E-01	1.64	4.62E-01	1.65	2.980E-01	1.64
1964	2.550E-01	1.65	8.85E-02	1.62	3.37E-01	1.65	5.63E-01	1.67	3.680E-01	1.65
1965	2.190E-01	1.59	8.17E-02	1.55	2.83E-01	1.59	4.93E-01	1.60	3.050E-01	1.59
1966	1.460E-01	1.70	5.68E-02	1.65	1.85E-01	1.71	3.32E-01	1.70	1.980E-01	1.72
1967	1.040E-01	1.71	3.40E-02	1.69	1.39E-01	1.70	2.26E-01	1.73	1.540E-01	1.69
1968	5.350E-02	1.70	1.76E-02	1.68	7.20E-02	1.69	1.17E-01	1.72	7.930E-02	1.69
1969	1.990E-02	1.69	6.54E-03	1.67	2.68E-02	1.68	4.35E-02	1.71	2.960E-02	1.68
1970	4.270E-03	2.32	1.40E-03	2.31	5.75E-03	2.32	9.33E-03	2.34	6.340E-03	2.31
1971	2.410E-03	2.38	7.90E-04	2.36	3.24E-03	2.37	5.25E-03	2.40	3.570E-03	2.37
1972	1.030E-04	2.40	3.40E-05	2.38	1.39E-04	2.39	2.26E-04	2.41	1.540E-04	2.38
All years from 1973 through 1983 have values of 0.00										
1984	1.460E-05	1.43	4.81E-06	1.41	1.97E-05	1.42	3.20E-05	1.46	2.170E-05	1.42
1985	1.520E-02	1.43	5.00E-03	1.41	2.05E-02	1.42	3.33E-02	1.46	2.260E-02	1.42
1986	5.860E-04	1.43	1.92E-04	1.41	7.89E-04	1.42	1.28E-03	1.46	8.690E-04	1.42
1987	5.860E-06	1.43	1.92E-06	1.41	7.89E-06	1.42	1.28E-05	1.46	8.690E-06	1.42
1988	1.460E-05	1.43	4.81E-06	1.41	1.97E-05	1.42	3.20E-05	1.46	2.170E-05	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.31E-02	2.70	3.36E-02	2.69	2.41E-02	2.71	3.290E-02	2.70	5.03E-02	2.71
1945	6.11E+00	1.56	6.56E+00	1.56	4.87E+00	1.57	7.310E+00	1.55	2.64E+01	1.60
1946	6.13E+00	1.53	5.77E+00	1.52	4.36E+00	1.53	6.840E+00	1.52	3.13E+01	1.56
1947	3.61E+00	1.52	3.78E+00	1.52	2.82E+00	1.53	4.260E+00	1.51	1.63E+01	1.55
1948	7.47E-01	1.68	7.80E-01	1.69	5.81E-01	1.70	8.810E-01	1.68	3.32E+00	1.75
1949	2.03E-02	1.52	2.23E-02	1.54	1.65E-02	1.55	2.460E-02	1.53	8.49E-02	1.54
1950	3.87E-02	1.52	4.11E-02	1.53	3.05E-02	1.54	4.600E-02	1.52	1.71E-01	1.55
1951	1.13E-01	1.51	1.23E-01	1.52	9.15E-02	1.53	1.370E-01	1.51	4.79E-01	1.54
1952	1.38E+00	1.97	1.45E+00	1.98	1.86E+00	2.00	3.000E+00	1.99	2.08E+00	1.93
1953	1.26E+01	2.57	1.32E+01	2.59	1.73E+01	2.59	2.790E+01	2.58	1.79E+01	2.57
1954	2.98E+01	2.63	3.13E+01	2.64	4.08E+01	2.65	6.600E+01	2.64	4.24E+01	2.62
1955	1.06E+00	1.62	1.13E+00	1.63	1.42E+00	1.64	2.280E+00	1.64	1.55E+00	1.61
1956	9.96E-01	1.58	9.73E-01	1.61	1.22E+00	1.63	2.000E+00	1.61	3.29E+00	1.55
1957	1.59E+00	1.54	1.49E+00	1.58	1.82E+00	1.60	3.000E+00	1.59	6.96E+00	1.54
1958	1.65E+00	1.57	1.51E+00	1.61	1.83E+00	1.64	3.020E+00	1.62	7.99E+00	1.60
1959	8.92E-01	1.55	6.38E-01	1.53	6.19E-01	1.54	1.100E+00	1.53	9.65E+00	1.61
1960	9.91E-01	1.57	7.17E-01	1.54	7.05E-01	1.55	1.250E+00	1.54	1.04E+01	1.63
1961	1.11E+00	1.53	8.75E-01	1.54	9.34E-01	1.57	1.610E+00	1.55	9.55E+00	1.59
1962	3.21E-01	1.61	2.16E-01	1.58	1.95E-01	1.58	3.550E-01	1.57	3.88E+00	1.65
1963	2.63E-01	1.64	1.75E-01	1.60	1.56E-01	1.59	2.850E-01	1.59	3.24E+00	1.67
1964	3.21E-01	1.65	2.10E-01	1.61	1.83E-01	1.61	3.380E-01	1.61	4.07E+00	1.67
1965	2.79E-01	1.58	1.96E-01	1.55	1.87E-01	1.55	3.340E-01	1.54	3.13E+00	1.64
1966	1.87E-01	1.69	1.38E-01	1.65	1.37E-01	1.64	2.410E-01	1.64	1.91E+00	1.81
1967	1.30E-01	1.71	7.97E-02	1.69	6.38E-02	1.71	1.220E-01	1.70	1.79E+00	1.70
1968	6.70E-02	1.70	4.11E-02	1.68	3.29E-02	1.70	6.280E-02	1.69	9.22E-01	1.69
1969	2.49E-02	1.69	1.53E-02	1.67	1.23E-02	1.69	2.340E-02	1.68	3.44E-01	1.68
1970	5.35E-03	2.32	3.29E-03	2.31	2.63E-03	2.32	5.020E-03	2.31	7.37E-02	2.32
1971	3.01E-03	2.38	1.85E-03	2.36	1.48E-03	2.38	2.830E-03	2.37	4.15E-02	2.37
1972	1.30E-04	2.40	7.96E-05	2.38	6.37E-05	2.40	1.220E-04	2.39	1.78E-03	2.39
All years from 1973 through 1983 have values of 0.00										
1984	1.83E-05	1.43	1.13E-05	1.41	9.02E-06	1.44	1.720E-05	1.42	2.53E-04	1.42
1985	1.91E-02	1.43	1.17E-02	1.41	9.38E-03	1.44	1.790E-02	1.42	2.63E-01	1.42
1986	7.34E-04	1.43	4.51E-04	1.41	3.61E-04	1.44	6.880E-04	1.42	1.01E-02	1.42
1987	7.34E-06	1.43	4.51E-06	1.41	3.61E-06	1.44	6.880E-06	1.42	1.01E-04	1.42
1988	1.83E-05	1.43	1.13E-05	1.41	9.02E-06	1.44	1.720E-05	1.42	2.53E-04	1.42
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-16. Nuclide Ru/Rh103, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	2.47E-02	2.71	5.20E-02	2.70	1.830E-01	2.87				
1945	5.09E+00	1.57	2.31E+01	1.59	2.790E+01	1.79				
1946	4.60E+00	1.53	2.65E+01	1.56	2.100E+01	1.71				
1947	2.95E+00	1.53	1.41E+01	1.54	1.570E+01	1.73				
1948	6.09E-01	1.70	2.88E+00	1.74	3.180E+00	1.94				
1949	1.72E-02	1.54	7.45E-02	1.54	9.760E-02	1.76				
1950	3.19E-02	1.54	1.48E-01	1.55	1.730E-01	1.75				
1951	9.55E-02	1.53	4.20E-01	1.53	5.370E-01	1.74				
1952	2.09E+00	1.99	2.13E+00	1.94	3.040E+00	1.94				
1953	1.94E+01	2.58	1.86E+01	2.58	2.570E+01	2.59				
1954	4.60E+01	2.64	4.39E+01	2.63	6.090E+01	2.65				
1955	1.60E+00	1.64	1.60E+00	1.61	2.560E+00	1.60				
1956	1.37E+00	1.62	2.62E+00	1.54	1.860E+00	1.63				
1957	2.04E+00	1.59	5.22E+00	1.53	2.820E+00	1.60				
1958	2.05E+00	1.63	5.89E+00	1.58	2.860E+00	1.63				
1959	6.81E-01	1.53	6.41E+00	1.62	1.130E+00	1.54				
1960	7.77E-01	1.55	6.95E+00	1.64	1.280E+00	1.55				
1961	1.04E+00	1.57	6.48E+00	1.60	1.590E+00	1.56				
1962	2.14E-01	1.57	2.55E+00	1.66	3.750E-01	1.59				
1963	1.70E-01	1.59	2.13E+00	1.68	3.030E-01	1.61				
1964	1.99E-01	1.60	2.67E+00	1.69	3.610E-01	1.62				
1965	2.05E-01	1.54	2.07E+00	1.65	3.460E-01	1.56				
1966	1.51E-01	1.64	1.27E+00	1.81	2.460E-01	1.65				
1967	6.90E-02	1.70	1.16E+00	1.71	1.340E-01	1.71				
1968	3.56E-02	1.70	6.01E-01	1.71	6.930E-02	1.70				
1969	1.33E-02	1.69	2.24E-01	1.70	2.580E-02	1.69				
1970	2.85E-03	2.32	4.80E-02	2.33	5.540E-03	2.32				
1971	1.60E-03	2.38	2.70E-02	2.39	3.120E-03	2.38				
1972	6.89E-05	2.39	1.16E-03	2.40	1.340E-04	2.40				
All years from 1973 through 1983 have values of 0.00										
1974	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1975	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1976	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1977	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1978	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1979	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1980	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1981	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1982	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1983	0.00E+00	0.00	0.00E+00	0.00	0.000E+00	0.00				
1984	9.76E-06	1.43	1.64E-04	1.44	1.900E-05	1.44				
1985	1.01E-02	1.43	1.71E-01	1.44	1.970E-02	1.44				
1986	3.90E-04	1.43	6.58E-03	1.44	7.600E-04	1.44				
1987	3.90E-06	1.43	6.58E-05	1.44	7.600E-06	1.44				
1988	9.76E-06	1.43	1.64E-04	1.44	1.900E-05	1.44				
1989 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131. Bq/yr

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.88E+02	3.78	6.490E+01	3.59	1.41E+02	3.63	6.23E+01	3.60	1.75E+02	3.66
1945	7.92E+04	2.02	1.040E+05	1.94	4.26E+04	1.85	7.10E+04	1.89	5.10E+04	1.89
1946	9.21E+03	1.90	2.420E+04	1.90	5.42E+03	1.76	1.56E+04	1.87	6.29E+03	1.79
1947	4.21E+03	2.01	6.300E+03	2.02	2.30E+03	1.84	4.24E+03	1.97	2.74E+03	1.88
1948	2.71E+02	1.97	3.480E+02	1.90	1.45E+02	1.81	2.38E+02	1.85	1.74E+02	1.85
1949	1.24E+03	3.50	4.950E+02	2.71	6.11E+02	3.34	3.97E+02	2.89	7.56E+02	3.38
1950	1.14E+03	2.23	1.130E+03	2.14	6.02E+02	2.05	8.00E+02	2.05	7.27E+02	2.09
1951	5.61E+03	2.38	5.660E+03	2.11	2.95E+03	2.19	4.01E+03	2.04	3.57E+03	2.24
1952	9.60E+02	2.12	6.470E+02	2.10	2.27E+03	1.96	5.22E+02	1.96	9.37E+02	1.86
1953	3.25E+02	1.92	1.180E+02	1.77	1.17E+03	1.94	1.17E+02	1.78	3.79E+02	1.81
1954	1.94E+02	2.11	5.870E+01	1.84	4.14E+02	1.89	5.75E+01	1.83	1.78E+02	1.85
1955	1.12E+02	1.94	4.150E+01	2.00	4.33E+02	2.29	4.12E+01	2.01	1.34E+02	2.06
1956	9.54E+00	2.06	1.060E+01	1.91	7.69E+01	2.16	1.55E+01	2.02	1.83E+01	2.12
1957	2.17E+01	2.06	2.600E+01	1.84	1.70E+02	2.19	3.97E+01	1.91	4.09E+01	2.14
1958	6.26E+01	1.91	9.480E+01	1.79	4.31E+02	2.09	1.58E+02	1.89	1.09E+02	2.01
1959	1.05E+01	1.91	4.200E+01	1.91	9.67E+00	1.86	8.36E+01	1.97	8.99E+00	1.90
1960	9.76E+00	2.19	3.790E+01	2.22	1.13E+01	1.99	7.52E+01	2.27	8.69E+00	2.15
1961	4.77E+00	1.85	1.620E+01	1.90	9.24E+00	2.28	3.16E+01	1.97	4.95E+00	1.88
1962	7.41E+00	2.17	1.440E+01	2.44	3.72E+01	2.47	2.56E+01	2.59	1.11E+01	2.27
1963	6.71E+00	2.32	1.700E+01	2.69	2.55E+01	2.24	3.20E+01	2.79	9.03E+00	2.15
1964	4.07E+00	1.92	1.230E+01	1.97	1.04E+01	2.55	2.37E+01	2.05	4.59E+00	2.08
1965	4.90E+00	2.04	7.670E+00	1.99	3.22E+01	2.28	1.28E+01	2.12	8.32E+00	2.17
1966	2.07E+00	2.14	7.250E+00	2.24	3.90E+00	2.04	1.42E+01	2.31	2.12E+00	2.04
1967	1.26E+00	2.16	5.050E+00	2.16	1.03E+00	2.16	1.01E+01	2.22	1.05E+00	2.17
1968	2.34E-01	2.25	9.430E-01	2.25	1.91E-01	2.25	1.88E+00	2.30	1.96E-01	2.25
1969	5.75E-02	2.62	2.310E-01	2.62	4.70E-02	2.62	4.61E-01	2.67	4.81E-02	2.62
1970	2.13E-02	2.14	8.580E-02	2.14	1.74E-02	2.14	1.71E-01	2.19	1.78E-02	2.14
1971	9.65E-03	1.89	3.880E-02	1.89	7.88E-03	1.89	7.74E-02	1.95	8.07E-03	1.90
1972	1.95E-02	1.42	7.850E-02	1.41	1.59E-02	1.41	1.56E-01	1.49	1.63E-02	1.42
All years from 1973 through 1984 have values of 0.00										
1985	7.75E-03	1.44	3.120E-02	1.43	6.33E-03	1.43	6.21E-02	1.51	6.48E-03	1.44
1986	7.75E-03	1.44	3.120E-02	1.43	6.33E-03	1.43	6.21E-02	1.51	6.48E-03	1.44
1987	7.75E-06	1.44	3.120E-05	1.43	6.33E-06	1.43	6.21E-05	1.51	6.48E-06	1.44
1988	1.55E-05	1.44	6.240E-05	1.43	1.27E-05	1.43	1.24E-04	1.51	1.30E-05	1.44
1989	6.59E-04	1.44	2.650E-03	1.43	5.38E-04	1.43	5.28E-03	1.51	5.51E-04	1.44
1990	5.43E-05	1.44	2.180E-04	1.43	4.43E-05	1.43	4.35E-04	1.51	4.54E-05	1.44
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	3.790E+01	3.59	4.34E+01	3.59	4.50E+01	3.60	3.67E+01	3.60	3.280E+01	3.60
1945	1.850E+04	1.75	2.33E+04	1.75	2.50E+04	1.76	2.02E+04	1.76	1.800E+04	1.76
1946	3.160E+03	1.74	4.14E+03	1.75	4.50E+03	1.76	3.62E+03	1.76	3.240E+03	1.76
1947	1.050E+03	1.79	1.33E+03	1.79	1.43E+03	1.81	1.16E+03	1.81	1.030E+03	1.80
1948	6.220E+01	1.71	7.82E+01	1.71	8.39E+01	1.73	6.77E+01	1.72	6.060E+01	1.72
1949	1.800E+02	3.20	2.11E+02	3.17	2.20E+02	3.18	1.79E+02	3.18	1.600E+02	3.18
1950	2.380E+02	1.90	2.94E+02	1.90	3.14E+02	1.91	2.54E+02	1.91	2.270E+02	1.90
1951	1.180E+03	1.98	1.46E+03	1.96	1.56E+03	1.97	1.26E+03	1.97	1.130E+03	1.97
1952	2.130E+02	1.80	2.62E+02	1.80	2.83E+02	1.80	2.31E+02	1.80	2.070E+02	1.80
1953	6.910E+01	1.77	8.38E+01	1.78	9.09E+01	1.79	7.46E+01	1.79	6.680E+01	1.79
1954	3.430E+01	1.83	4.08E+01	1.82	4.37E+01	1.83	3.58E+01	1.83	3.200E+01	1.82
1955	2.430E+01	2.00	2.95E+01	2.02	3.21E+01	2.04	2.63E+01	2.04	2.360E+01	2.04
1956	4.060E+00	1.95	5.43E+00	1.93	6.09E+00	1.94	4.95E+00	1.94	4.420E+00	1.94
1957	9.480E+00	1.93	1.28E+01	1.91	1.43E+01	1.91	1.16E+01	1.92	1.040E+01	1.91
1958	3.010E+01	1.79	4.16E+01	1.78	4.68E+01	1.78	3.78E+01	1.78	3.360E+01	1.78
1959	8.360E+00	1.90	1.28E+01	1.91	1.45E+01	1.91	1.15E+01	1.91	1.010E+01	1.91
1960	7.620E+00	2.20	1.16E+01	2.21	1.31E+01	2.21	1.04E+01	2.20	9.210E+00	2.20
1961	3.420E+00	1.86	5.14E+00	1.88	5.83E+00	1.88	4.64E+00	1.87	4.100E+00	1.87
1962	4.010E+00	2.23	5.67E+00	2.27	6.39E+00	2.27	5.14E+00	2.26	4.570E+00	2.26
1963	4.060E+00	2.51	5.93E+00	2.56	6.70E+00	2.56	5.36E+00	2.55	4.750E+00	2.55
1964	2.750E+00	1.92	4.08E+00	1.93	4.62E+00	1.93	3.68E+00	1.93	3.250E+00	1.93
1965	2.410E+00	1.93	3.34E+00	1.93	3.76E+00	1.93	3.03E+00	1.93	2.700E+00	1.93
1966	1.510E+00	2.20	2.28E+00	2.21	2.59E+00	2.21	2.06E+00	2.21	1.820E+00	2.21
1967	1.000E+00	2.15	1.53E+00	2.16	1.74E+00	2.16	1.38E+00	2.16	1.220E+00	2.16
1968	1.870E-01	2.24	2.86E-01	2.25	3.24E-01	2.25	2.57E-01	2.24	2.270E-01	2.24
1969	4.600E-02	2.61	7.02E-02	2.61	7.96E-02	2.61	6.32E-02	2.61	5.570E-02	2.61
1970	1.700E-02	2.13	2.60E-02	2.14	2.95E-02	2.14	2.34E-02	2.13	2.070E-02	2.13
1971	7.710E-03	1.88	1.18E-02	1.89	1.34E-02	1.89	1.06E-02	1.89	9.350E-03	1.89
1972	1.560E-02	1.40	2.38E-02	1.41	2.70E-02	1.41	2.14E-02	1.40	1.890E-02	1.40
All years from 1973 through 1984 have values of 0.00										
1985	6.190E-03	1.42	9.46E-03	1.43	1.07E-02	1.43	8.52E-03	1.42	7.510E-03	1.42
1986	6.190E-03	1.42	9.46E-03	1.43	1.07E-02	1.43	8.52E-03	1.42	7.510E-03	1.42
1987	6.190E-06	1.42	9.46E-06	1.43	1.07E-05	1.43	8.52E-06	1.42	7.510E-06	1.42
1988	1.240E-05	1.42	1.89E-05	1.43	2.15E-05	1.43	1.70E-05	1.42	1.500E-05	1.42
1989	5.260E-04	1.42	8.04E-04	1.43	9.12E-04	1.43	7.24E-04	1.42	6.380E-04	1.42
1990	4.330E-05	1.42	6.62E-05	1.43	7.51E-05	1.43	5.96E-05	1.42	5.260E-05	1.42
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	3.98E+01	3.60	5.66E+01	3.59	2.06E+01	3.59	3.080E+01	3.59	2.19E+01	3.60
1945	2.17E+04	1.76	2.62E+04	1.74	9.91E+03	1.75	1.700E+04	1.76	1.21E+04	1.76
1946	3.88E+03	1.76	4.36E+03	1.73	1.68E+03	1.74	3.070E+03	1.76	2.18E+03	1.76
1947	1.24E+03	1.81	1.48E+03	1.77	5.62E+02	1.78	9.770E+02	1.81	6.94E+02	1.80
1948	7.28E+01	1.73	8.80E+01	1.71	3.33E+01	1.71	5.720E+01	1.72	4.06E+01	1.72
1949	1.94E+02	3.18	2.65E+02	3.22	9.74E+01	3.21	1.510E+02	3.17	1.07E+02	3.17
1950	2.74E+02	1.91	3.40E+02	1.91	1.28E+02	1.90	2.140E+02	1.90	1.52E+02	1.90
1951	1.36E+03	1.97	1.68E+03	1.99	6.33E+02	1.99	1.070E+03	1.96	7.57E+02	1.96
1952	2.51E+02	1.80	3.02E+02	1.81	1.21E+02	1.80	1.920E+02	1.80	1.39E+02	1.80
1953	8.14E+01	1.79	9.82E+01	1.77	4.06E+01	1.78	6.110E+01	1.78	4.50E+01	1.79
1954	3.90E+01	1.82	4.96E+01	1.85	1.97E+01	1.82	2.950E+01	1.82	2.15E+01	1.82
1955	2.88E+01	2.04	3.45E+01	1.98	1.43E+01	2.03	2.160E+01	2.03	1.59E+01	2.04
1956	5.33E+00	1.94	5.42E+00	1.96	2.43E+00	1.96	4.060E+00	1.93	2.98E+00	1.94
1957	1.25E+01	1.92	1.26E+01	1.95	5.65E+00	1.95	9.570E+00	1.91	7.00E+00	1.92
1958	4.03E+01	1.79	3.96E+01	1.80	1.77E+01	1.80	3.120E+01	1.78	2.27E+01	1.78
1959	1.19E+01	1.92	1.04E+01	1.90	4.61E+00	1.90	9.690E+00	1.91	6.81E+00	1.91
1960	1.08E+01	2.21	9.52E+00	2.20	4.21E+00	2.20	8.800E+00	2.21	6.19E+00	2.20
1961	4.82E+00	1.88	4.31E+00	1.86	1.91E+00	1.86	3.900E+00	1.88	2.75E+00	1.87
1962	5.44E+00	2.26	5.20E+00	2.21	2.32E+00	2.21	4.270E+00	2.27	3.07E+00	2.25
1963	5.62E+00	2.55	5.20E+00	2.49	2.31E+00	2.49	4.480E+00	2.56	3.19E+00	2.54
1964	3.84E+00	1.93	3.48E+00	1.91	1.54E+00	1.91	3.090E+00	1.93	2.19E+00	1.92
1965	3.23E+00	1.93	3.16E+00	1.94	1.41E+00	1.94	2.510E+00	1.93	1.82E+00	1.93
1966	2.13E+00	2.21	1.90E+00	2.19	8.42E-01	2.19	1.730E+00	2.21	1.22E+00	2.20
1967	1.43E+00	2.17	1.25E+00	2.15	5.53E-01	2.16	1.160E+00	2.16	8.17E-01	2.16
1968	2.66E-01	2.25	2.34E-01	2.24	1.03E-01	2.24	2.170E-01	2.25	1.52E-01	2.24
1969	6.53E-02	2.62	5.74E-02	2.61	2.53E-02	2.61	5.330E-02	2.62	3.74E-02	2.61
1970	2.42E-02	2.14	2.13E-02	2.13	9.39E-03	2.13	1.980E-02	2.14	1.39E-02	2.13
1971	1.10E-02	1.90	9.62E-03	1.88	4.25E-03	1.89	8.940E-03	1.89	6.28E-03	1.89
1972	2.22E-02	1.42	1.95E-02	1.40	8.59E-03	1.40	1.810E-02	1.41	1.27E-02	1.40
All years from 1973 through 1984 have values of 0.00										
1985	8.81E-03	1.44	7.73E-03	1.42	3.41E-03	1.42	7.180E-03	1.43	5.04E-03	1.42
1986	8.81E-03	1.44	7.73E-03	1.42	3.41E-03	1.42	7.180E-03	1.43	5.04E-03	1.42
1987	8.81E-06	1.44	7.73E-06	1.42	3.41E-06	1.42	7.180E-06	1.43	5.04E-06	1.42
1988	1.76E-05	1.44	1.55E-05	1.42	6.83E-06	1.42	1.440E-05	1.43	1.01E-05	1.42
1989	7.48E-04	1.44	6.57E-04	1.42	2.90E-04	1.42	6.110E-04	1.43	4.29E-04	1.42
1990	6.16E-05	1.44	5.41E-05	1.42	2.39E-05	1.42	5.030E-05	1.43	3.53E-05	1.42
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.48E+01	3.60	2.31E+01	3.59	3.850E+01	3.60	4.92E+01	3.58	1.80E+02	3.60
1945	1.35E+04	1.76	9.75E+03	1.75	1.740E+04	1.75	2.77E+04	1.75	6.73E+04	1.77
1946	2.41E+03	1.76	1.55E+03	1.72	2.860E+03	1.74	5.01E+03	1.76	9.98E+03	1.73
1947	7.73E+02	1.81	5.47E+02	1.77	9.810E+02	1.78	1.59E+03	1.81	3.73E+03	1.78
1948	4.53E+01	1.72	3.29E+01	1.71	5.860E+01	1.72	9.28E+01	1.72	2.28E+02	1.73
1949	1.21E+02	3.18	1.06E+02	3.24	1.800E+02	3.23	2.42E+02	3.16	8.10E+02	3.27
1950	1.70E+02	1.91	1.29E+02	1.91	2.270E+02	1.91	3.47E+02	1.90	9.11E+02	1.95
1951	8.47E+02	1.97	6.36E+02	2.02	1.120E+03	2.01	1.73E+03	1.96	4.49E+03	2.07
1952	1.55E+02	1.80	1.41E+02	1.80	2.630E+02	1.79	3.19E+02	1.79	7.58E+02	1.88
1953	5.02E+01	1.79	5.20E+01	1.79	9.860E+01	1.81	1.04E+02	1.78	2.43E+02	1.78
1954	2.41E+01	1.83	2.42E+01	1.81	4.430E+01	1.80	4.92E+01	1.81	1.34E+02	1.91
1955	1.77E+01	2.04	1.84E+01	2.06	3.520E+01	2.10	3.67E+01	2.04	8.42E+01	1.91
1956	3.30E+00	1.94	2.99E+00	2.02	6.090E+00	2.01	7.11E+00	1.93	1.00E+01	1.99
1957	7.74E+00	1.92	6.83E+00	2.02	1.390E+01	2.01	1.67E+01	1.90	2.32E+01	1.98
1958	2.50E+01	1.79	2.01E+01	1.86	4.140E+01	1.86	5.45E+01	1.78	7.06E+01	1.83
1959	7.48E+00	1.91	3.88E+00	1.90	8.240E+00	1.91	1.68E+01	1.91	1.62E+01	1.91
1960	6.80E+00	2.21	3.57E+00	2.18	7.580E+00	2.19	1.53E+01	2.21	1.49E+01	2.20
1961	3.03E+00	1.88	1.70E+00	1.84	3.590E+00	1.85	6.77E+00	1.88	6.87E+00	1.86
1962	3.39E+00	2.26	2.46E+00	2.16	5.090E+00	2.16	7.44E+00	2.27	8.98E+00	2.18
1963	3.51E+00	2.55	2.28E+00	2.36	4.750E+00	2.38	7.79E+00	2.56	8.67E+00	2.44
1964	2.41E+00	1.93	1.43E+00	1.91	3.000E+00	1.91	5.36E+00	1.93	5.64E+00	1.91
1965	2.01E+00	1.93	1.59E+00	1.99	3.260E+00	1.99	4.38E+00	1.93	5.61E+00	1.96
1966	1.34E+00	2.21	7.42E-01	2.15	1.570E+00	2.16	3.00E+00	2.21	3.02E+00	2.18
1967	8.98E-01	2.16	4.63E-01	2.15	9.850E-01	2.16	2.02E+00	2.16	1.94E+00	2.16
1968	1.68E-01	2.25	8.64E-02	2.24	1.840E-01	2.25	3.77E-01	2.25	3.63E-01	2.25
1969	4.11E-02	2.62	2.12E-02	2.61	4.510E-02	2.61	9.25E-02	2.62	8.91E-02	2.61
1970	1.53E-02	2.14	7.87E-03	2.13	1.670E-02	2.14	3.43E-02	2.14	3.30E-02	2.14
1971	6.90E-03	1.89	3.56E-03	1.88	7.560E-03	1.89	1.55E-02	1.89	1.49E-02	1.89
1972	1.40E-02	1.41	7.20E-03	1.40	1.530E-02	1.41	3.14E-02	1.41	3.02E-02	1.41
All years from 1973 through 1984 have values of 0.00										
1985	5.54E-03	1.43	2.86E-03	1.42	6.080E-03	1.43	1.25E-02	1.43	1.20E-02	1.43
1986	5.54E-03	1.43	2.86E-03	1.42	6.080E-03	1.43	1.25E-02	1.43	1.20E-02	1.43
1987	5.54E-06	1.43	2.86E-06	1.42	6.080E-06	1.43	1.25E-05	1.43	1.20E-05	1.43
1988	1.11E-05	1.43	5.72E-06	1.42	1.220E-05	1.43	2.49E-05	1.43	2.40E-05	1.43
1989	4.71E-04	1.43	2.43E-04	1.42	5.160E-04	1.43	1.06E-03	1.43	1.02E-03	1.43
1990	3.88E-05	1.43	2.00E-05	1.42	4.250E-05	1.43	8.72E-05	1.43	8.40E-05	1.43
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	4.49E+01	3.61	1.420E+02	3.66	3.16E+01	3.59	2.42E+01	3.59	2.26E+01	3.59
1945	2.39E+04	1.77	5.260E+04	1.81	1.40E+04	1.75	1.34E+04	1.76	1.28E+04	1.75
1946	4.22E+03	1.77	7.770E+03	1.74	2.29E+03	1.73	2.42E+03	1.76	2.32E+03	1.76
1947	1.36E+03	1.81	2.910E+03	1.81	7.89E+02	1.77	7.70E+02	1.80	7.32E+02	1.80
1948	8.02E+01	1.73	1.780E+02	1.77	4.72E+01	1.71	4.51E+01	1.72	4.28E+01	1.72
1949	2.17E+02	3.20	6.350E+02	3.34	1.47E+02	3.23	1.18E+02	3.17	1.11E+02	3.16
1950	3.02E+02	1.92	7.120E+02	2.00	1.83E+02	1.91	1.69E+02	1.90	1.60E+02	1.90
1951	1.50E+03	1.98	3.500E+03	2.12	9.07E+02	2.00	8.39E+02	1.96	7.95E+02	1.96
1952	2.76E+02	1.81	6.250E+02	1.89	2.25E+02	1.79	1.61E+02	1.79	1.51E+02	1.79
1953	8.94E+01	1.79	2.080E+02	1.79	8.66E+01	1.82	5.37E+01	1.79	4.96E+01	1.79
1954	4.32E+01	1.83	1.110E+02	1.93	3.81E+01	1.79	2.51E+01	1.81	2.32E+01	1.81
1955	3.15E+01	2.04	7.250E+01	1.94	3.10E+01	2.12	1.91E+01	2.06	1.76E+01	2.05
1956	5.89E+00	1.94	9.100E+00	2.00	5.36E+00	2.03	3.64E+00	1.94	3.42E+00	1.93
1957	1.39E+01	1.92	2.090E+01	2.00	1.22E+01	2.03	8.53E+00	1.92	8.02E+00	1.91
1958	4.50E+01	1.79	6.310E+01	1.84	3.57E+01	1.87	2.74E+01	1.79	2.59E+01	1.78
1959	1.38E+01	1.92	1.370E+01	1.91	6.50E+00	1.90	7.93E+00	1.91	7.79E+00	1.90
1960	1.25E+01	2.22	1.260E+01	2.20	6.00E+00	2.19	7.21E+00	2.20	7.08E+00	2.20
1961	5.55E+00	1.89	5.870E+00	1.86	2.89E+00	1.84	3.22E+00	1.87	3.15E+00	1.87
1962	6.13E+00	2.27	7.920E+00	2.18	4.30E+00	2.16	3.68E+00	2.24	3.52E+00	2.25
1963	6.40E+00	2.57	7.540E+00	2.42	3.95E+00	2.34	3.78E+00	2.53	3.65E+00	2.54
1964	4.40E+00	1.94	4.850E+00	1.91	2.44E+00	1.91	2.57E+00	1.92	2.50E+00	1.92
1965	3.62E+00	1.94	5.000E+00	1.97	2.81E+00	2.01	2.19E+00	1.93	2.08E+00	1.92
1966	2.46E+00	2.22	2.570E+00	2.18	1.26E+00	2.15	1.43E+00	2.20	1.40E+00	2.20
1967	1.65E+00	2.17	1.640E+00	2.16	7.76E-01	2.16	9.51E-01	2.16	9.36E-01	2.15
1968	3.08E-01	2.26	3.060E-01	2.25	1.45E-01	2.24	1.77E-01	2.24	1.75E-01	2.24
1969	7.57E-02	2.63	7.520E-02	2.62	3.55E-02	2.61	4.36E-02	2.61	4.28E-02	2.61
1970	2.81E-02	2.15	2.790E-02	2.14	1.32E-02	2.13	1.62E-02	2.13	1.59E-02	2.13
1971	1.27E-02	1.90	1.260E-02	1.89	5.96E-03	1.89	7.31E-03	1.89	7.19E-03	1.88
1972	2.57E-02	1.43	2.550E-02	1.41	1.20E-02	1.41	1.48E-02	1.40	1.45E-02	1.40
All years from 1973 through 1984 have values of 0.00										
1985	1.02E-02	1.45	1.010E-02	1.43	4.79E-03	1.43	5.87E-03	1.42	5.77E-03	1.42
1986	1.02E-02	1.45	1.010E-02	1.43	4.79E-03	1.43	5.87E-03	1.42	5.77E-03	1.42
1987	1.02E-05	1.45	1.010E-05	1.43	4.79E-06	1.43	5.87E-06	1.42	5.77E-06	1.42
1988	2.04E-05	1.45	2.030E-05	1.43	9.57E-06	1.43	1.17E-05	1.42	1.15E-05	1.42
1989	8.67E-04	1.45	8.610E-04	1.43	4.07E-04	1.43	4.99E-04	1.42	4.91E-04	1.42
1990	7.14E-05	1.45	7.090E-05	1.43	3.35E-05	1.43	4.11E-05	1.42	4.04E-05	1.42
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.710E+01	3.59	1.31E+01	3.59	3.29E+01	3.59	6.89E+01	3.59	3.110E+01	3.59
1945	1.430E+04	1.76	5.88E+03	1.74	1.84E+04	1.75	3.39E+04	1.76	1.890E+04	1.76
1946	2.520E+03	1.76	9.65E+02	1.73	3.33E+03	1.76	5.82E+03	1.76	3.520E+03	1.76
1947	8.150E+02	1.80	3.32E+02	1.77	1.06E+03	1.80	1.93E+03	1.80	1.090E+03	1.82
1948	4.800E+01	1.72	1.98E+01	1.71	6.18E+01	1.72	1.14E+02	1.72	6.320E+01	1.73
1949	1.310E+02	3.19	6.11E+01	3.22	1.61E+02	3.17	3.28E+02	3.20	1.560E+02	3.14
1950	1.810E+02	1.90	7.68E+01	1.91	2.31E+02	1.90	4.36E+02	1.91	2.340E+02	1.91
1951	9.000E+02	1.97	3.80E+02	2.00	1.15E+03	1.96	2.16E+03	1.99	1.160E+03	1.95
1952	1.810E+02	1.79	8.91E+01	1.79	2.13E+02	1.79	4.46E+02	1.79	2.090E+02	1.79
1953	6.210E+01	1.80	3.35E+01	1.81	6.95E+01	1.79	1.56E+02	1.79	6.630E+01	1.78
1954	2.870E+01	1.81	1.50E+01	1.80	3.29E+01	1.81	7.25E+01	1.81	3.130E+01	1.81
1955	2.200E+01	2.07	1.19E+01	2.10	2.46E+01	2.05	5.55E+01	2.06	2.350E+01	2.04
1956	4.110E+00	1.96	2.05E+00	2.01	4.72E+00	1.93	9.91E+00	1.97	4.740E+00	1.92
1957	9.570E+00	1.94	4.69E+00	2.02	1.11E+01	1.91	2.30E+01	1.96	1.120E+01	1.89
1958	3.020E+01	1.80	1.39E+01	1.86	3.60E+01	1.78	7.11E+01	1.81	3.700E+01	1.77
1959	8.130E+00	1.91	2.71E+00	1.90	1.09E+01	1.90	1.76E+01	1.93	1.200E+01	1.90
1960	7.400E+00	2.21	2.50E+00	2.18	9.93E+00	2.20	1.61E+01	2.22	1.090E+01	2.20
1961	3.340E+00	1.87	1.18E+00	1.84	4.41E+00	1.87	7.34E+00	1.88	4.800E+00	1.87
1962	3.980E+00	2.22	1.70E+00	2.16	4.90E+00	2.26	9.18E+00	2.21	5.120E+00	2.28
1963	4.010E+00	2.51	1.58E+00	2.37	5.10E+00	2.55	9.02E+00	2.49	5.440E+00	2.57
1964	2.690E+00	1.92	9.93E-01	1.90	3.50E+00	1.92	5.97E+00	1.93	3.780E+00	1.93
1965	2.410E+00	1.94	1.09E+00	1.99	2.89E+00	1.93	5.66E+00	1.95	2.970E+00	1.92
1966	1.480E+00	2.20	5.17E-01	2.15	1.96E+00	2.20	3.23E+00	2.21	2.130E+00	2.21
1967	9.750E-01	2.16	3.24E-01	2.15	1.31E+00	2.15	2.11E+00	2.18	1.440E+00	2.15
1968	1.820E-01	2.25	6.04E-02	2.24	2.45E-01	2.24	3.93E-01	2.27	2.690E-01	2.24
1969	4.460E-02	2.62	1.48E-02	2.61	6.01E-02	2.61	9.65E-02	2.64	6.610E-02	2.61
1970	1.660E-02	2.14	5.50E-03	2.13	2.23E-02	2.13	3.58E-02	2.16	2.450E-02	2.13
1971	7.490E-03	1.89	2.49E-03	1.88	1.01E-02	1.88	1.62E-02	1.91	1.110E-02	1.88
1972	1.510E-02	1.42	5.03E-03	1.40	2.04E-02	1.40	3.27E-02	1.44	2.240E-02	1.40
All years from 1973 through 1984 have values of 0.00										
1985	6.010E-03	1.44	2.00E-03	1.42	8.10E-03	1.42	1.30E-02	1.46	8.900E-03	1.42
1986	6.010E-03	1.44	2.00E-03	1.42	8.10E-03	1.42	1.30E-02	1.46	8.900E-03	1.42
1987	6.010E-06	1.44	2.00E-06	1.42	8.10E-06	1.42	1.30E-05	1.46	8.900E-06	1.42
1988	1.200E-05	1.44	4.00E-06	1.42	1.62E-05	1.42	2.60E-05	1.46	1.780E-05	1.42
1989	5.110E-04	1.44	1.70E-04	1.42	6.89E-04	1.42	1.11E-03	1.46	7.570E-04	1.42
1990	4.210E-05	1.44	1.40E-05	1.42	5.67E-05	1.42	9.10E-05	1.46	6.230E-05	1.42
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	3.71E+01	3.59	5.35E+01	3.59	3.84E+01	3.61	5.240E+01	3.59	7.96E+01	3.61
1945	1.89E+04	1.75	1.97E+04	1.77	1.47E+04	1.77	2.230E+04	1.75	8.14E+04	1.83
1946	3.30E+03	1.75	2.90E+03	1.71	2.21E+03	1.73	3.560E+03	1.72	1.75E+04	1.81
1947	1.08E+03	1.79	1.09E+03	1.77	8.17E+02	1.78	1.250E+03	1.77	4.84E+03	1.91
1948	6.36E+01	1.72	6.66E+01	1.73	4.97E+01	1.73	7.510E+01	1.71	2.72E+02	1.80
1949	1.78E+02	3.19	2.40E+02	3.27	1.73E+02	3.28	2.410E+02	3.24	4.80E+02	2.96
1950	2.41E+02	1.90	2.67E+02	1.95	1.98E+02	1.95	2.940E+02	1.92	9.31E+02	2.00
1951	1.20E+03	1.98	1.32E+03	2.07	9.75E+02	2.07	1.450E+03	2.02	4.66E+03	2.00
1952	2.45E+02	1.79	2.76E+02	1.82	2.64E+02	1.82	4.040E+02	1.81	6.13E+02	1.92
1953	8.50E+01	1.79	9.99E+01	1.78	1.06E+02	1.83	1.640E+02	1.84	1.40E+02	1.77
1954	3.93E+01	1.80	4.92E+01	1.83	4.67E+01	1.81	6.970E+01	1.80	7.04E+01	1.85
1955	3.02E+01	2.07	3.51E+01	2.02	3.79E+01	2.13	5.890E+01	2.15	4.93E+01	1.99
1956	5.49E+00	1.96	5.07E+00	2.03	6.13E+00	2.08	1.010E+01	2.06	2.24E+01	2.03
1957	1.27E+01	1.95	1.16E+01	2.04	1.38E+01	2.09	2.290E+01	2.07	5.83E+01	1.91
1958	3.97E+01	1.81	3.39E+01	1.88	3.87E+01	1.94	6.500E+01	1.92	2.41E+02	1.87
1959	1.01E+01	1.91	6.29E+00	1.89	5.09E+00	1.91	9.600E+00	1.90	1.37E+02	1.91
1960	9.24E+00	2.20	5.80E+00	2.18	4.77E+00	2.18	8.940E+00	2.17	1.23E+02	2.21
1961	4.20E+00	1.87	2.78E+00	1.83	2.44E+00	1.84	4.470E+00	1.83	5.14E+01	1.91
1962	5.17E+00	2.21	4.10E+00	2.16	4.32E+00	2.18	7.450E+00	2.17	4.03E+01	2.56
1963	5.12E+00	2.49	3.79E+00	2.34	3.76E+00	2.24	6.600E+00	2.27	5.15E+01	2.75
1964	3.41E+00	1.92	2.35E+00	1.90	2.15E+00	1.95	3.880E+00	1.93	3.84E+01	1.99
1965	3.16E+00	1.94	2.67E+00	2.01	2.99E+00	2.08	5.060E+00	2.05	1.95E+01	2.11
1966	1.85E+00	2.19	1.21E+00	2.14	1.05E+00	2.11	1.940E+00	2.11	2.32E+01	2.25
1967	1.21E+00	2.16	7.51E-01	2.15	6.03E-01	2.16	1.140E+00	2.15	1.65E+01	2.16
1968	2.26E-01	2.25	1.40E-01	2.23	1.13E-01	2.25	2.130E-01	2.24	3.07E+00	2.24
1969	5.56E-02	2.62	3.44E-02	2.60	2.76E-02	2.62	5.220E-02	2.61	7.54E-01	2.61
1970	2.06E-02	2.14	1.28E-02	2.12	1.02E-02	2.14	1.940E-02	2.13	2.80E-01	2.13
1971	9.33E-03	1.89	5.77E-03	1.87	4.64E-03	1.89	8.760E-03	1.88	1.26E-01	1.89
1972	1.89E-02	1.41	1.17E-02	1.39	9.37E-03	1.42	1.770E-02	1.40	2.56E-01	1.40
All years from 1973 through 1984 have values of 0.00										
1985	7.49E-03	1.43	4.64E-03	1.41	3.72E-03	1.44	7.040E-03	1.42	1.02E-01	1.42
1986	7.49E-03	1.43	4.64E-03	1.41	3.72E-03	1.44	7.040E-03	1.42	1.02E-01	1.42
1987	7.49E-06	1.43	4.64E-06	1.41	3.72E-06	1.44	7.040E-06	1.42	1.02E-04	1.42
1988	1.50E-05	1.43	9.27E-06	1.41	7.45E-06	1.44	1.410E-05	1.42	2.03E-04	1.42
1989	6.37E-04	1.43	3.94E-04	1.41	3.17E-04	1.44	5.980E-04	1.42	8.63E-03	1.42
1990	5.25E-05	1.43	3.24E-05	1.41	2.61E-05	1.44	4.930E-05	1.42	7.11E-04	1.42
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-17. Nuclide I-131, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	3.94E+01	3.61	8.20E+01	3.60	2.880E+02	3.78				
1945	1.54E+04	1.77	7.09E+04	1.82	7.920E+04	2.02				
1946	2.34E+03	1.72	1.47E+04	1.81	9.210E+03	1.90				
1947	8.56E+02	1.78	4.18E+03	1.89	4.210E+03	2.01				
1948	5.20E+01	1.73	2.37E+02	1.78	2.710E+02	1.97				
1949	1.78E+02	3.28	4.63E+02	3.02	1.240E+03	3.50				
1950	2.06E+02	1.95	8.31E+02	1.97	1.140E+03	2.23				
1951	1.02E+03	2.06	4.16E+03	1.98	5.610E+03	2.38				
1952	2.86E+02	1.81	5.83E+02	1.88	9.600E+02	2.12				
1953	1.17E+02	1.83	1.45E+02	1.77	3.250E+02	1.92				
1954	5.04E+01	1.80	7.28E+01	1.85	1.940E+02	2.11				
1955	4.18E+01	2.14	5.10E+01	1.99	1.120E+02	1.94				
1956	6.88E+00	2.08	1.72E+01	1.97	9.540E+00	2.06				
1957	1.55E+01	2.09	4.37E+01	1.87	2.170E+01	2.06				
1958	4.32E+01	1.94	1.71E+02	1.84	6.260E+01	1.91				
1959	5.50E+00	1.90	8.84E+01	1.92	1.050E+01	1.91				
1960	5.16E+00	2.17	7.97E+01	2.23	9.760E+00	2.19				
1961	2.66E+00	1.84	3.35E+01	1.92	4.770E+00	1.85				
1962	4.79E+00	2.18	2.75E+01	2.53	7.410E+00	2.17				
1963	4.15E+00	2.22	3.41E+01	2.74	6.710E+00	2.32				
1964	2.35E+00	1.96	2.52E+01	2.00	4.070E+00	1.92				
1965	3.34E+00	2.08	1.39E+01	2.07	4.900E+00	2.04				
1966	1.15E+00	2.10	1.51E+01	2.26	2.070E+00	2.14				
1967	6.51E-01	2.16	1.07E+01	2.17	1.260E+00	2.16				
1968	1.21E-01	2.25	1.99E+00	2.26	2.340E-01	2.25				
1969	2.98E-02	2.62	4.88E-01	2.63	5.750E-02	2.62				
1970	1.11E-02	2.14	1.81E-01	2.15	2.130E-02	2.14				
1971	5.00E-03	1.89	8.19E-02	1.90	9.650E-03	1.89				
1972	1.01E-02	1.41	1.66E-01	1.43	1.950E-02	1.42				
All years from 1973 through 1984 have values of 0.00										
1985	4.02E-03	1.43	6.58E-02	1.44	7.750E-03	1.44				
1986	4.02E-03	1.43	6.58E-02	1.44	7.750E-03	1.44				
1987	4.02E-06	1.43	6.58E-05	1.44	7.750E-06	1.44				
1988	8.04E-06	1.43	1.32E-04	1.44	1.550E-05	1.44				
1989	3.42E-04	1.43	5.59E-03	1.44	6.590E-04	1.44				
1990	2.81E-05	1.43	4.60E-04	1.44	5.430E-05	1.44				
1991 through 2001 all values are 0.00 Reactors Shut Down										

Table A-18. Nuclide Sr/Y90. Bq/yr

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	4.84E-03	2.46	1.090E-03	2.28	2.35E-03	2.31	1.04E-03	2.28	2.93E-03	2.34
1945	1.25E+00	1.72	1.450E+00	1.59	6.52E-01	1.56	9.86E-01	1.56	7.91E-01	1.59
1946	1.55E+00	1.66	2.670E+00	1.56	8.39E-01	1.52	1.75E+00	1.54	1.00E+00	1.55
1947	1.26E+00	1.66	1.680E+00	1.55	6.64E-01	1.51	1.12E+00	1.52	8.03E-01	1.54
1948	4.33E-01	1.79	5.930E-01	1.69	2.30E-01	1.63	3.97E-01	1.66	2.78E-01	1.67
1949	1.41E-02	1.69	1.500E-02	1.55	7.30E-03	1.53	1.03E-02	1.52	8.88E-03	1.56
1950	2.28E-02	1.67	2.970E-02	1.55	1.20E-02	1.52	1.99E-02	1.52	1.46E-02	1.55
1951	3.49E-02	1.68	4.050E-02	1.54	1.82E-02	1.52	2.75E-02	1.52	2.21E-02	1.55
1952	3.67E-02	1.56	2.290E-02	1.50	1.57E-01	1.54	1.94E-02	1.48	4.61E-02	1.50
1953	4.06E-02	1.52	1.840E-02	1.49	2.51E-01	1.54	1.85E-02	1.50	6.35E-02	1.52
1954	5.98E-02	1.53	2.460E-02	1.48	3.06E-01	1.54	2.45E-02	1.48	8.30E-02	1.51
1955	7.10E-02	1.55	2.870E-02	1.49	3.51E-01	1.55	2.86E-02	1.49	9.65E-02	1.52
1956	4.99E-02	1.49	9.650E-02	1.52	2.89E-01	1.55	1.76E-01	1.60	7.86E-02	1.51
1957	6.87E-02	1.47	1.670E-01	1.50	3.34E-01	1.52	3.16E-01	1.58	9.91E-02	1.48
1958	6.68E-02	1.48	1.850E-01	1.52	2.66E-01	1.53	3.57E-01	1.59	8.76E-02	1.48
1959	7.34E-02	1.48	2.220E-01	1.52	2.46E-01	1.50	4.34E-01	1.59	8.94E-02	1.47
1960	7.88E-02	1.50	2.570E-01	1.53	2.18E-01	1.50	5.06E-01	1.60	8.92E-02	1.48
1961	9.10E-02	1.48	2.590E-01	1.52	3.47E-01	1.51	5.00E-01	1.59	1.17E-01	1.47
1962	1.15E-01	1.49	3.460E-01	1.53	3.93E-01	1.52	6.74E-01	1.60	1.41E-01	1.48
1963	1.15E-01	1.49	3.130E-01	1.55	4.70E-01	1.54	6.03E-01	1.62	1.53E-01	1.49
1964	1.37E-01	1.49	3.510E-01	1.54	6.12E-01	1.54	6.70E-01	1.61	1.90E-01	1.49
1965	1.31E-01	1.48	3.370E-01	1.53	5.84E-01	1.54	6.43E-01	1.60	1.81E-01	1.49
1966	1.33E-01	1.55	2.590E-01	1.55	7.95E-01	1.65	4.71E-01	1.63	2.14E-01	1.59
1967	7.81E-02	1.55	3.180E-01	1.55	6.35E-02	1.55	6.39E-01	1.61	6.51E-02	1.55
1968	8.04E-02	1.54	3.270E-01	1.54	6.54E-02	1.54	6.58E-01	1.61	6.70E-02	1.55
1969	6.42E-02	1.55	2.610E-01	1.54	5.21E-02	1.54	5.25E-01	1.61	5.34E-02	1.55
1970	1.43E-02	1.77	5.830E-02	1.77	1.16E-02	1.77	1.17E-01	1.83	1.19E-02	1.77
1971	3.90E-02	1.65	1.590E-01	1.65	3.17E-02	1.65	3.19E-01	1.71	3.25E-02	1.65
1972	3.35E-03	2.08	1.360E-02	2.08	2.72E-03	2.08	2.74E-02	2.13	2.79E-03	2.08
All years from 1973 through 1982 have values of 0.00										
1983	1.14E-04	1.44	4.640E-04	1.43	9.26E-05	1.43	9.32E-04	1.51	9.49E-05	1.44
1984	8.74E-04	1.44	3.560E-03	1.43	7.10E-04	1.43	7.15E-03	1.51	7.27E-04	1.44
1985	3.23E-04	1.44	1.310E-03	1.43	2.62E-04	1.43	2.64E-03	1.51	2.69E-04	1.44
1986	7.98E-06	1.44	3.250E-05	1.43	6.48E-06	1.43	6.53E-05	1.51	6.64E-06	1.44
1987	7.60E-06	1.44	3.090E-05	1.43	6.17E-06	1.43	6.22E-05	1.51	6.33E-06	1.44
1988	3.80E-06	1.44	1.550E-05	1.43	3.09E-06	1.43	3.11E-05	1.51	3.16E-06	1.44
1989	1.75E-04	1.44	7.110E-04	1.43	1.42E-04	1.43	1.43E-03	1.51	1.45E-04	1.44
1990	2.01E-04	1.44	8.200E-04	1.43	1.64E-04	1.43	1.65E-03	1.51	1.68E-04	1.44
1991	9.12E-05	1.44	3.710E-04	1.43	7.41E-05	1.43	7.46E-04	1.51	7.59E-05	1.44
1992	1.67E-05	1.44	6.800E-05	1.43	1.36E-05	1.43	1.37E-04	1.51	1.39E-05	1.44
1993	1.41E-05	1.44	5.720E-05	1.43	1.14E-05	1.43	1.15E-04	1.51	1.17E-05	1.44
1994	7.60E-06	1.44	3.090E-05	1.43	6.17E-06	1.43	6.22E-05	1.51	6.33E-06	1.44
1995	9.50E-06	1.44	3.870E-05	1.43	7.72E-06	1.43	7.77E-05	1.51	7.91E-06	1.44
1996	1.71E-05	1.44	6.960E-05	1.43	1.39E-05	1.43	1.40E-04	1.51	1.42E-05	1.44
1997	2.24E-05	1.44	9.120E-05	1.43	1.82E-05	1.43	1.83E-04	1.51	1.87E-05	1.44
1998	1.41E-05	1.44	5.720E-05	1.43	1.14E-05	1.43	1.15E-04	1.51	1.17E-05	1.44
1999	1.60E-05	1.44	6.490E-05	1.43	1.30E-05	1.43	1.31E-04	1.51	1.33E-05	1.44
2000	1.25E-05	1.44	5.100E-05	1.43	1.02E-05	1.43	1.03E-04	1.51	1.04E-05	1.44
2001	1.10E-05	1.44	4.480E-05	1.43	8.95E-06	1.43	9.01E-05	1.51	9.17E-06	1.44

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	6.270E-04	2.28	7.17E-04	2.27	7.34E-04	2.29	5.98E-04	2.29	5.330E-04	2.28
1945	2.610E-01	1.49	3.25E-01	1.49	3.46E-01	1.50	2.79E-01	1.50	2.500E-01	1.50
1946	3.930E-01	1.47	5.04E-01	1.46	5.41E-01	1.47	4.35E-01	1.47	3.900E-01	1.47
1947	2.790E-01	1.46	3.52E-01	1.45	3.76E-01	1.46	3.03E-01	1.46	2.710E-01	1.46
1948	9.870E-02	1.56	1.24E-01	1.56	1.33E-01	1.57	1.07E-01	1.57	9.590E-02	1.57
1949	2.810E-03	1.47	3.49E-03	1.46	3.71E-03	1.47	2.99E-03	1.47	2.680E-03	1.47
1950	5.010E-03	1.46	6.30E-03	1.46	6.72E-03	1.47	5.42E-03	1.47	4.850E-03	1.46
1951	7.260E-03	1.46	9.05E-03	1.46	9.63E-03	1.47	7.77E-03	1.46	6.950E-03	1.46
1952	8.770E-03	1.47	1.09E-02	1.47	1.18E-02	1.48	9.65E-03	1.48	8.610E-03	1.47
1953	1.060E-02	1.50	1.33E-02	1.50	1.45E-02	1.51	1.19E-02	1.51	1.060E-02	1.51
1954	1.420E-02	1.48	1.75E-02	1.49	1.90E-02	1.50	1.56E-02	1.50	1.390E-02	1.49
1955	1.660E-02	1.49	2.04E-02	1.50	2.22E-02	1.51	1.82E-02	1.51	1.620E-02	1.50
1956	2.550E-02	1.48	3.66E-02	1.49	4.11E-02	1.49	3.29E-02	1.49	2.920E-02	1.49
1957	3.980E-02	1.47	5.84E-02	1.48	6.57E-02	1.48	5.23E-02	1.48	4.640E-02	1.48
1958	4.150E-02	1.49	6.18E-02	1.50	6.97E-02	1.50	5.54E-02	1.50	4.900E-02	1.50
1959	4.810E-02	1.49	7.22E-02	1.50	8.15E-02	1.50	6.46E-02	1.50	5.720E-02	1.50
1960	5.390E-02	1.51	8.17E-02	1.52	9.22E-02	1.52	7.30E-02	1.51	6.460E-02	1.51
1961	5.740E-02	1.49	8.57E-02	1.50	9.67E-02	1.50	7.67E-02	1.50	6.800E-02	1.50
1962	7.500E-02	1.50	1.13E-01	1.51	1.27E-01	1.51	1.01E-01	1.50	8.930E-02	1.51
1963	7.090E-02	1.51	1.05E-01	1.52	1.19E-01	1.52	9.44E-02	1.52	8.360E-02	1.52
1964	8.160E-02	1.50	1.21E-01	1.51	1.36E-01	1.51	1.08E-01	1.51	9.570E-02	1.51
1965	7.820E-02	1.49	1.16E-01	1.50	1.30E-01	1.50	1.03E-01	1.50	9.170E-02	1.50
1966	6.910E-02	1.52	9.90E-02	1.52	1.11E-01	1.52	8.89E-02	1.52	7.890E-02	1.52
1967	6.150E-02	1.54	9.51E-02	1.54	1.08E-01	1.54	8.49E-02	1.54	7.510E-02	1.54
1968	6.330E-02	1.53	9.79E-02	1.54	1.11E-01	1.54	8.74E-02	1.53	7.730E-02	1.54
1969	5.050E-02	1.53	7.81E-02	1.54	8.84E-02	1.54	6.97E-02	1.54	6.170E-02	1.54
1970	1.130E-02	1.76	1.74E-02	1.77	1.97E-02	1.76	1.56E-02	1.76	1.380E-02	1.76
1971	3.070E-02	1.64	4.75E-02	1.64	5.37E-02	1.64	4.24E-02	1.64	3.750E-02	1.64
1972	2.640E-03	2.07	4.08E-03	2.07	4.62E-03	2.07	3.64E-03	2.07	3.220E-03	2.07
All years from 1973 through 1982 have values of 0.00										
1983	8.970E-05	1.42	1.39E-04	1.43	1.57E-04	1.43	1.24E-04	1.42	1.090E-04	1.43
1984	6.880E-04	1.42	1.06E-03	1.43	1.20E-03	1.43	9.49E-04	1.42	8.390E-04	1.43
1985	2.540E-04	1.42	3.93E-04	1.43	4.45E-04	1.43	3.51E-04	1.42	3.100E-04	1.43
1986	6.280E-06	1.42	9.71E-06	1.43	1.10E-05	1.43	8.66E-06	1.42	7.660E-06	1.43
1987	5.980E-06	1.42	9.25E-06	1.43	1.05E-05	1.43	8.25E-06	1.42	7.300E-06	1.43
1988	2.990E-06	1.42	4.62E-06	1.43	5.23E-06	1.43	4.13E-06	1.42	3.650E-06	1.43
1989	1.380E-04	1.42	2.13E-04	1.43	2.41E-04	1.43	1.90E-04	1.42	1.680E-04	1.43
1990	1.580E-04	1.42	2.45E-04	1.43	2.77E-04	1.43	2.19E-04	1.42	1.930E-04	1.43
1991	7.170E-05	1.42	1.11E-04	1.43	1.26E-04	1.43	9.90E-05	1.42	8.760E-05	1.43
1992	1.320E-05	1.42	2.03E-05	1.43	2.30E-05	1.43	1.82E-05	1.42	1.610E-05	1.43
1993	1.110E-05	1.42	1.71E-05	1.43	1.94E-05	1.43	1.53E-05	1.42	1.350E-05	1.43
1994	5.980E-06	1.42	9.25E-06	1.43	1.05E-05	1.43	8.25E-06	1.42	7.300E-06	1.43
1995	7.470E-06	1.42	1.16E-05	1.43	1.31E-05	1.43	1.03E-05	1.42	9.120E-06	1.43
1996	1.350E-05	1.42	2.08E-05	1.43	2.35E-05	1.43	1.86E-05	1.42	1.640E-05	1.43
1997	1.760E-05	1.42	2.73E-05	1.43	3.09E-05	1.43	2.43E-05	1.42	2.150E-05	1.43
1998	1.110E-05	1.42	1.71E-05	1.43	1.94E-05	1.43	1.53E-05	1.42	1.350E-05	1.43
1999	1.260E-05	1.42	1.94E-05	1.43	2.20E-05	1.43	1.73E-05	1.42	1.530E-05	1.43
2000	9.870E-06	1.42	1.53E-05	1.43	1.73E-05	1.43	1.36E-05	1.42	1.200E-05	1.43
2001	8.670E-06	1.42	1.34E-05	1.43	1.52E-05	1.43	1.20E-05	1.42	1.060E-05	1.43

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	6.51E-04	2.29	9.40E-04	2.28	3.38E-04	2.28	4.990E-04	2.28	3.55E-04	2.28
1945	3.01E-01	1.50	3.73E-01	1.49	1.39E-01	1.49	2.350E-01	1.50	1.67E-01	1.49
1946	4.68E-01	1.48	5.55E-01	1.46	2.09E-01	1.47	3.680E-01	1.47	2.60E-01	1.47
1947	3.26E-01	1.47	3.98E-01	1.45	1.49E-01	1.46	2.560E-01	1.46	1.81E-01	1.46
1948	1.15E-01	1.57	1.41E-01	1.56	5.25E-02	1.56	9.040E-02	1.57	6.39E-02	1.57
1949	3.23E-03	1.47	4.04E-03	1.47	1.50E-03	1.47	2.520E-03	1.47	1.78E-03	1.47
1950	5.84E-03	1.47	7.14E-03	1.46	2.67E-03	1.46	4.570E-03	1.46	3.23E-03	1.46
1951	8.38E-03	1.47	1.04E-02	1.46	3.87E-03	1.46	6.550E-03	1.46	4.63E-03	1.46
1952	1.06E-02	1.48	1.24E-02	1.47	5.15E-03	1.47	7.880E-03	1.47	5.79E-03	1.47
1953	1.30E-02	1.51	1.50E-02	1.50	6.45E-03	1.50	9.610E-03	1.50	7.15E-03	1.51
1954	1.71E-02	1.50	2.01E-02	1.48	8.51E-03	1.49	1.270E-02	1.49	9.39E-03	1.49
1955	1.99E-02	1.51	2.35E-02	1.49	9.92E-03	1.50	1.480E-02	1.50	1.09E-02	1.50
1956	3.49E-02	1.49	3.36E-02	1.48	1.48E-02	1.48	2.730E-02	1.49	1.96E-02	1.49
1957	5.53E-02	1.48	5.17E-02	1.47	2.27E-02	1.47	4.370E-02	1.48	3.11E-02	1.48
1958	5.83E-02	1.50	5.36E-02	1.49	2.35E-02	1.49	4.640E-02	1.50	3.28E-02	1.50
1959	6.78E-02	1.51	6.17E-02	1.49	2.71E-02	1.49	5.420E-02	1.50	3.82E-02	1.50
1960	7.65E-02	1.52	6.90E-02	1.51	3.02E-02	1.51	6.140E-02	1.52	4.32E-02	1.51
1961	8.07E-02	1.50	7.40E-02	1.49	3.25E-02	1.49	6.430E-02	1.50	4.54E-02	1.49
1962	1.06E-01	1.51	9.65E-02	1.50	4.23E-02	1.50	8.460E-02	1.51	5.96E-02	1.50
1963	9.94E-02	1.52	9.16E-02	1.51	4.02E-02	1.51	7.900E-02	1.52	5.59E-02	1.52
1964	1.14E-01	1.51	1.06E-01	1.50	4.65E-02	1.50	9.030E-02	1.51	6.40E-02	1.51
1965	1.09E-01	1.51	1.01E-01	1.49	4.45E-02	1.49	8.650E-02	1.50	6.13E-02	1.50
1966	9.46E-02	1.53	9.07E-02	1.52	4.01E-02	1.52	7.380E-02	1.52	5.29E-02	1.52
1967	8.84E-02	1.55	7.79E-02	1.54	3.40E-02	1.54	7.170E-02	1.54	5.01E-02	1.54
1968	9.10E-02	1.55	8.01E-02	1.53	3.50E-02	1.53	7.380E-02	1.54	5.15E-02	1.53
1969	7.26E-02	1.55	6.39E-02	1.53	2.79E-02	1.53	5.890E-02	1.54	4.11E-02	1.54
1970	1.62E-02	1.77	1.43E-02	1.76	6.23E-03	1.76	1.310E-02	1.77	9.18E-03	1.76
1971	4.41E-02	1.65	3.88E-02	1.64	1.69E-02	1.64	3.580E-02	1.65	2.50E-02	1.64
1972	3.79E-03	2.08	3.34E-03	2.07	1.46E-03	2.07	3.080E-03	2.07	2.15E-03	2.07
All years from 1973 through 1982 have values of 0.00										
1983	1.29E-04	1.44	1.14E-04	1.42	4.95E-05	1.42	1.050E-04	1.43	7.30E-05	1.42
1984	9.88E-04	1.44	8.70E-04	1.42	3.80E-04	1.42	8.020E-04	1.43	5.60E-04	1.42
1985	3.65E-04	1.44	3.22E-04	1.42	1.40E-04	1.42	2.960E-04	1.43	2.07E-04	1.42
1986	9.02E-06	1.44	7.95E-06	1.42	3.47E-06	1.42	7.320E-06	1.43	5.11E-06	1.42
1987	8.59E-06	1.44	7.57E-06	1.42	3.30E-06	1.42	6.970E-06	1.43	4.87E-06	1.42
1988	4.30E-06	1.44	3.78E-06	1.42	1.65E-06	1.42	3.490E-06	1.43	2.43E-06	1.42
1989	1.98E-04	1.44	1.74E-04	1.42	7.59E-05	1.42	1.600E-04	1.43	1.12E-04	1.42
1990	2.28E-04	1.44	2.01E-04	1.42	8.75E-05	1.42	1.850E-04	1.43	1.29E-04	1.42
1991	1.03E-04	1.44	9.08E-05	1.42	3.96E-05	1.42	8.370E-05	1.43	5.84E-05	1.42
1992	1.89E-05	1.44	1.67E-05	1.42	7.26E-06	1.42	1.530E-05	1.43	1.07E-05	1.42
1993	1.59E-05	1.44	1.40E-05	1.42	6.11E-06	1.42	1.290E-05	1.43	9.00E-06	1.42
1994	8.59E-06	1.44	7.57E-06	1.42	3.30E-06	1.42	6.970E-06	1.43	4.87E-06	1.42
1995	1.07E-05	1.44	9.46E-06	1.42	4.13E-06	1.42	8.720E-06	1.43	6.08E-06	1.42
1996	1.93E-05	1.44	1.70E-05	1.42	7.43E-06	1.42	1.570E-05	1.43	1.10E-05	1.42
1997	2.54E-05	1.44	2.23E-05	1.42	9.74E-06	1.42	2.060E-05	1.43	1.44E-05	1.42
1998	1.59E-05	1.44	1.40E-05	1.42	6.11E-06	1.42	1.290E-05	1.43	9.00E-06	1.42
1999	1.80E-05	1.44	1.59E-05	1.42	6.93E-06	1.42	1.460E-05	1.43	1.02E-05	1.42
2000	1.42E-05	1.44	1.25E-05	1.42	5.45E-06	1.42	1.150E-05	1.43	8.03E-06	1.42
2001	1.25E-05	1.44	1.10E-05	1.42	4.79E-06	1.42	1.010E-05	1.43	7.06E-06	1.42

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	4.04E-04	2.29	3.81E-04	2.27	6.340E-04	2.28	8.11E-04	2.27	3.03E-03	2.28
1945	1.87E-01	1.50	1.39E-01	1.49	2.470E-01	1.50	3.88E-01	1.49	9.95E-01	1.51
1946	2.91E-01	1.48	2.01E-01	1.46	3.640E-01	1.47	6.08E-01	1.47	1.38E+00	1.48
1947	2.03E-01	1.47	1.47E-01	1.45	2.630E-01	1.46	4.21E-01	1.46	1.04E+00	1.47
1948	7.18E-02	1.57	5.18E-02	1.56	9.260E-02	1.57	1.49E-01	1.57	3.64E-01	1.58
1949	2.01E-03	1.47	1.52E-03	1.47	2.680E-03	1.47	4.15E-03	1.46	1.10E-02	1.48
1950	3.63E-03	1.47	2.64E-03	1.46	4.710E-03	1.47	7.53E-03	1.46	1.87E-02	1.47
1951	5.21E-03	1.47	3.87E-03	1.46	6.870E-03	1.46	1.08E-02	1.46	2.77E-02	1.47
1952	6.48E-03	1.48	6.53E-03	1.48	1.260E-02	1.49	1.37E-02	1.47	2.94E-02	1.47
1953	7.98E-03	1.51	8.70E-03	1.51	1.720E-02	1.51	1.70E-02	1.50	3.35E-02	1.49
1954	1.05E-02	1.49	1.13E-02	1.49	2.210E-02	1.50	2.22E-02	1.48	4.70E-02	1.47
1955	1.22E-02	1.50	1.31E-02	1.50	2.560E-02	1.51	2.59E-02	1.49	5.54E-02	1.48
1956	2.17E-02	1.49	1.58E-02	1.48	3.290E-02	1.48	4.83E-02	1.49	5.89E-02	1.48
1957	3.44E-02	1.48	2.29E-02	1.46	4.790E-02	1.46	7.72E-02	1.48	8.75E-02	1.47
1958	3.63E-02	1.50	2.26E-02	1.47	4.760E-02	1.48	8.18E-02	1.50	8.88E-02	1.48
1959	4.23E-02	1.51	2.52E-02	1.48	5.330E-02	1.48	9.56E-02	1.51	1.01E-01	1.49
1960	4.78E-02	1.52	2.75E-02	1.49	5.820E-02	1.50	1.08E-01	1.52	1.11E-01	1.50
1961	5.03E-02	1.50	3.10E-02	1.47	6.530E-02	1.48	1.13E-01	1.50	1.22E-01	1.48
1962	6.60E-02	1.51	3.96E-02	1.48	8.360E-02	1.49	1.49E-01	1.51	1.58E-01	1.49
1963	6.19E-02	1.52	3.89E-02	1.49	8.180E-02	1.49	1.39E-01	1.52	1.52E-01	1.50
1964	7.09E-02	1.51	4.59E-02	1.48	9.620E-02	1.49	1.59E-01	1.51	1.77E-01	1.49
1965	6.79E-02	1.50	4.39E-02	1.48	9.210E-02	1.48	1.53E-01	1.50	1.70E-01	1.49
1966	5.86E-02	1.52	4.30E-02	1.52	8.940E-02	1.53	1.31E-01	1.52	1.59E-01	1.52
1967	5.54E-02	1.55	2.84E-02	1.53	6.090E-02	1.54	1.26E-01	1.54	1.21E-01	1.54
1968	5.70E-02	1.54	2.93E-02	1.53	6.270E-02	1.54	1.30E-01	1.54	1.25E-01	1.54
1969	4.55E-02	1.54	2.34E-02	1.53	5.000E-02	1.54	1.03E-01	1.54	9.96E-02	1.54
1970	1.02E-02	1.77	5.21E-03	1.76	1.120E-02	1.77	2.31E-02	1.77	2.22E-02	1.76
1971	2.76E-02	1.65	1.42E-02	1.64	3.040E-02	1.64	6.29E-02	1.65	6.05E-02	1.64
1972	2.38E-03	2.08	1.22E-03	2.07	2.610E-03	2.07	5.41E-03	2.07	5.20E-03	2.07
All years from 1973 through 1982 have values of 0.00										
1983	8.07E-05	1.43	4.15E-05	1.42	8.880E-05	1.43	1.84E-04	1.43	1.77E-04	1.43
1984	6.19E-04	1.43	3.18E-04	1.42	6.810E-04	1.43	1.41E-03	1.43	1.36E-03	1.43
1985	2.29E-04	1.43	1.17E-04	1.42	2.520E-04	1.43	5.21E-04	1.43	5.01E-04	1.43
1986	5.65E-06	1.43	2.90E-06	1.42	6.210E-06	1.43	1.29E-05	1.43	1.24E-05	1.43
1987	5.38E-06	1.43	2.76E-06	1.42	5.920E-06	1.43	1.22E-05	1.43	1.18E-05	1.43
1988	2.69E-06	1.43	1.38E-06	1.42	2.960E-06	1.43	6.12E-06	1.43	5.90E-06	1.43
1989	1.24E-04	1.43	6.36E-05	1.42	1.360E-04	1.43	2.82E-04	1.43	2.71E-04	1.43
1990	1.43E-04	1.43	7.33E-05	1.42	1.570E-04	1.43	3.25E-04	1.43	3.12E-04	1.43
1991	6.46E-05	1.43	3.32E-05	1.42	7.100E-05	1.43	1.47E-04	1.43	1.41E-04	1.43
1992	1.18E-05	1.43	6.08E-06	1.42	1.300E-05	1.43	2.69E-05	1.43	2.59E-05	1.43
1993	9.96E-06	1.43	5.11E-06	1.42	1.090E-05	1.43	2.27E-05	1.43	2.18E-05	1.43
1994	5.38E-06	1.43	2.76E-06	1.42	5.920E-06	1.43	1.22E-05	1.43	1.18E-05	1.43
1995	6.73E-06	1.43	3.46E-06	1.42	7.400E-06	1.43	1.53E-05	1.43	1.47E-05	1.43
1996	1.21E-05	1.43	6.22E-06	1.42	1.330E-05	1.43	2.76E-05	1.43	2.65E-05	1.43
1997	1.59E-05	1.43	8.15E-06	1.42	1.750E-05	1.43	3.61E-05	1.43	3.48E-05	1.43
1998	9.96E-06	1.43	5.11E-06	1.42	1.090E-05	1.43	2.27E-05	1.43	2.18E-05	1.43
1999	1.13E-05	1.43	5.81E-06	1.42	1.240E-05	1.43	2.57E-05	1.43	2.48E-05	1.43
2000	8.88E-06	1.43	4.56E-06	1.42	9.760E-06	1.43	2.02E-05	1.43	1.95E-05	1.43
2001	7.81E-06	1.43	4.01E-06	1.42	8.580E-06	1.43	1.78E-05	1.43	1.71E-05	1.43

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	7.38E-04	2.29	2.380E-03	2.35	5.22E-04	2.27	3.96E-04	2.28	3.69E-04	2.27
1945	3.33E-01	1.51	7.780E-01	1.55	1.99E-01	1.49	1.85E-01	1.49	1.77E-01	1.49
1946	5.14E-01	1.49	1.080E+00	1.51	2.92E-01	1.47	2.89E-01	1.47	2.77E-01	1.47
1947	3.60E-01	1.48	8.110E-01	1.51	2.11E-01	1.46	2.01E-01	1.46	1.92E-01	1.46
1948	1.27E-01	1.58	2.840E-01	1.61	7.45E-02	1.56	7.12E-02	1.57	6.80E-02	1.56
1949	3.58E-03	1.48	8.570E-03	1.53	2.16E-03	1.47	1.99E-03	1.47	1.89E-03	1.46
1950	6.45E-03	1.48	1.460E-02	1.51	3.79E-03	1.46	3.60E-03	1.46	3.43E-03	1.46
1951	9.27E-03	1.48	2.170E-02	1.52	5.54E-03	1.46	5.16E-03	1.46	4.91E-03	1.46
1952	1.16E-02	1.48	2.520E-02	1.48	1.11E-02	1.49	7.00E-03	1.47	6.48E-03	1.47
1953	1.42E-02	1.51	2.970E-02	1.50	1.53E-02	1.51	8.87E-03	1.51	8.16E-03	1.50
1954	1.87E-02	1.50	4.110E-02	1.49	1.96E-02	1.50	1.15E-02	1.49	1.06E-02	1.49
1955	2.18E-02	1.51	4.830E-02	1.49	2.27E-02	1.51	1.34E-02	1.50	1.23E-02	1.50
1956	3.95E-02	1.50	5.180E-02	1.48	2.78E-02	1.48	2.34E-02	1.48	2.26E-02	1.48
1957	6.29E-02	1.49	7.610E-02	1.47	3.98E-02	1.46	3.69E-02	1.47	3.58E-02	1.47
1958	6.66E-02	1.51	7.660E-02	1.49	3.91E-02	1.47	3.87E-02	1.49	3.78E-02	1.49
1959	7.77E-02	1.52	8.660E-02	1.49	4.34E-02	1.48	4.50E-02	1.50	4.41E-02	1.49
1960	8.79E-02	1.53	9.520E-02	1.51	4.70E-02	1.49	5.06E-02	1.51	4.98E-02	1.51
1961	9.23E-02	1.51	1.050E-01	1.48	5.35E-02	1.47	5.36E-02	1.49	5.24E-02	1.49
1962	1.21E-01	1.52	1.360E-01	1.49	6.81E-02	1.48	7.02E-02	1.50	6.88E-02	1.50
1963	1.13E-01	1.53	1.320E-01	1.50	6.74E-02	1.49	6.61E-02	1.51	6.45E-02	1.51
1964	1.30E-01	1.52	1.540E-01	1.49	7.97E-02	1.48	7.59E-02	1.50	7.39E-02	1.50
1965	1.24E-01	1.52	1.470E-01	1.49	7.62E-02	1.48	7.27E-02	1.50	7.08E-02	1.49
1966	1.07E-01	1.53	1.400E-01	1.52	7.58E-02	1.53	6.35E-02	1.52	6.11E-02	1.52
1967	1.02E-01	1.56	1.020E-01	1.55	4.78E-02	1.54	5.82E-02	1.54	5.78E-02	1.53
1968	1.05E-01	1.56	1.050E-01	1.54	4.92E-02	1.53	5.99E-02	1.53	5.94E-02	1.53
1969	8.39E-02	1.56	8.380E-02	1.54	3.93E-02	1.54	4.78E-02	1.54	4.74E-02	1.53
1970	1.87E-02	1.78	1.870E-02	1.77	8.77E-03	1.76	1.07E-02	1.76	1.06E-02	1.76
1971	5.10E-02	1.66	5.090E-02	1.65	2.39E-02	1.64	2.91E-02	1.64	2.88E-02	1.64
1972	4.38E-03	2.09	4.380E-03	2.08	2.05E-03	2.07	2.50E-03	2.07	2.48E-03	2.07
All years from 1973 through 1982 have values of 0.00										
1983	1.49E-04	1.45	1.490E-04	1.43	6.97E-05	1.42	8.49E-05	1.42	8.42E-05	1.42
1984	1.14E-03	1.45	1.140E-03	1.43	5.35E-04	1.42	6.51E-04	1.42	6.46E-04	1.42
1985	4.22E-04	1.45	4.220E-04	1.43	1.98E-04	1.42	2.41E-04	1.42	2.39E-04	1.42
1986	1.04E-05	1.45	1.040E-05	1.43	4.88E-06	1.42	5.94E-06	1.42	5.90E-06	1.42
1987	9.93E-06	1.45	9.920E-06	1.43	4.65E-06	1.42	5.66E-06	1.42	5.62E-06	1.42
1988	4.97E-06	1.45	4.960E-06	1.43	2.32E-06	1.42	2.83E-06	1.42	2.81E-06	1.42
1989	2.29E-04	1.45	2.280E-04	1.43	1.07E-04	1.42	1.30E-04	1.42	1.29E-04	1.42
1990	2.63E-04	1.45	2.630E-04	1.43	1.23E-04	1.42	1.50E-04	1.42	1.49E-04	1.42
1991	1.19E-04	1.45	1.190E-04	1.43	5.58E-05	1.42	6.79E-05	1.42	6.74E-05	1.42
1992	2.19E-05	1.45	2.180E-05	1.43	1.02E-05	1.42	1.25E-05	1.42	1.24E-05	1.42
1993	1.84E-05	1.45	1.840E-05	1.43	8.60E-06	1.42	1.05E-05	1.42	1.04E-05	1.42
1994	9.93E-06	1.45	9.920E-06	1.43	4.65E-06	1.42	5.66E-06	1.42	5.62E-06	1.42
1995	1.24E-05	1.45	1.240E-05	1.43	5.81E-06	1.42	7.08E-06	1.42	7.02E-06	1.42
1996	2.24E-05	1.45	2.230E-05	1.43	1.05E-05	1.42	1.27E-05	1.42	1.26E-05	1.42
1997	2.93E-05	1.45	2.930E-05	1.43	1.37E-05	1.42	1.67E-05	1.42	1.66E-05	1.42
1998	1.84E-05	1.45	1.840E-05	1.43	8.60E-06	1.42	1.05E-05	1.42	1.04E-05	1.42
1999	2.09E-05	1.45	2.080E-05	1.43	9.76E-06	1.42	1.19E-05	1.42	1.18E-05	1.42
2000	1.64E-05	1.45	1.640E-05	1.43	7.67E-06	1.42	9.34E-06	1.42	9.26E-06	1.42
2001	1.44E-05	1.45	1.440E-05	1.43	6.74E-06	1.42	8.21E-06	1.42	8.14E-06	1.42

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	4.460E-04	2.28	2.14E-04	2.27	5.39E-04	2.28	1.14E-03	2.28	5.130E-04	2.27
1945	1.990E-01	1.50	8.25E-02	1.49	2.55E-01	1.49	4.81E-01	1.50	2.630E-01	1.49
1946	3.070E-01	1.47	1.22E-01	1.46	4.00E-01	1.47	7.28E-01	1.48	4.190E-01	1.47
1947	2.150E-01	1.46	8.77E-02	1.45	2.78E-01	1.46	5.16E-01	1.47	2.870E-01	1.46
1948	7.610E-02	1.57	3.10E-02	1.56	9.82E-02	1.57	1.82E-01	1.57	1.020E-01	1.57
1949	2.140E-03	1.47	8.95E-04	1.46	2.74E-03	1.47	5.19E-03	1.47	2.800E-03	1.46
1950	3.850E-03	1.47	1.58E-03	1.46	4.96E-03	1.46	9.25E-03	1.47	5.130E-03	1.46
1951	5.550E-03	1.46	2.30E-03	1.46	7.11E-03	1.46	1.34E-02	1.47	7.310E-03	1.46
1952	8.070E-03	1.48	4.23E-03	1.48	9.08E-03	1.47	2.02E-02	1.47	8.830E-03	1.47
1953	1.040E-02	1.51	5.76E-03	1.51	1.13E-02	1.50	2.63E-02	1.50	1.080E-02	1.50
1954	1.350E-02	1.50	7.39E-03	1.50	1.48E-02	1.49	3.42E-02	1.49	1.410E-02	1.48
1955	1.570E-02	1.51	8.57E-03	1.51	1.72E-02	1.50	3.97E-02	1.50	1.640E-02	1.50
1956	2.560E-02	1.48	1.08E-02	1.47	3.15E-02	1.49	5.95E-02	1.49	3.300E-02	1.49
1957	3.960E-02	1.48	1.57E-02	1.46	5.01E-02	1.47	9.06E-02	1.48	5.340E-02	1.47
1958	4.120E-02	1.50	1.56E-02	1.47	5.29E-02	1.49	9.31E-02	1.51	5.690E-02	1.49
1959	4.750E-02	1.50	1.75E-02	1.47	6.18E-02	1.50	1.07E-01	1.51	6.690E-02	1.50
1960	5.320E-02	1.52	1.90E-02	1.49	6.98E-02	1.51	1.19E-01	1.53	7.590E-02	1.51
1961	5.690E-02	1.50	2.14E-02	1.47	7.34E-02	1.49	1.28E-01	1.51	7.910E-02	1.49
1962	7.430E-02	1.50	2.74E-02	1.48	9.64E-02	1.50	1.67E-01	1.52	1.040E-01	1.50
1963	7.040E-02	1.51	2.69E-02	1.49	9.02E-02	1.51	1.59E-01	1.52	9.690E-02	1.52
1964	8.120E-02	1.50	3.16E-02	1.48	1.03E-01	1.50	1.85E-01	1.51	1.100E-01	1.51
1965	7.780E-02	1.50	3.03E-02	1.47	9.90E-02	1.50	1.77E-01	1.51	1.060E-01	1.50
1966	6.930E-02	1.52	2.95E-02	1.52	8.51E-02	1.52	1.61E-01	1.53	8.920E-02	1.52
1967	6.030E-02	1.55	1.98E-02	1.53	8.11E-02	1.54	1.32E-01	1.57	8.940E-02	1.53
1968	6.200E-02	1.54	2.04E-02	1.53	8.35E-02	1.53	1.35E-01	1.57	9.200E-02	1.53
1969	4.950E-02	1.54	1.63E-02	1.53	6.66E-02	1.53	1.08E-01	1.57	7.340E-02	1.53
1970	1.100E-02	1.77	3.63E-03	1.75	1.49E-02	1.76	2.41E-02	1.79	1.640E-02	1.76
1971	3.010E-02	1.65	9.88E-03	1.63	4.05E-02	1.64	6.57E-02	1.67	4.460E-02	1.63
1972	2.590E-03	2.08	8.49E-04	2.06	3.48E-03	2.07	5.64E-03	2.09	3.840E-03	2.06
All years from 1973 through 1982 have values of 0.00										
1983	8.790E-05	1.43	2.89E-05	1.41	1.18E-04	1.42	1.92E-04	1.46	1.300E-04	1.42
1984	6.740E-04	1.43	2.21E-04	1.41	9.07E-04	1.42	1.47E-03	1.46	1.000E-03	1.42
1985	2.490E-04	1.43	8.18E-05	1.41	3.35E-04	1.42	5.44E-04	1.46	3.690E-04	1.42
1986	6.150E-06	1.43	2.02E-06	1.41	8.28E-06	1.42	1.34E-05	1.46	9.130E-06	1.42
1987	5.860E-06	1.43	1.92E-06	1.41	7.89E-06	1.42	1.28E-05	1.46	8.690E-06	1.42
1988	2.930E-06	1.43	9.62E-07	1.41	3.94E-06	1.42	6.40E-06	1.46	4.350E-06	1.42
1989	1.350E-04	1.43	4.43E-05	1.41	1.81E-04	1.42	2.94E-04	1.46	2.000E-04	1.42
1990	1.550E-04	1.43	5.10E-05	1.41	2.09E-04	1.42	3.39E-04	1.46	2.300E-04	1.42
1991	7.030E-05	1.43	2.31E-05	1.41	9.46E-05	1.42	1.53E-04	1.46	1.040E-04	1.42
1992	1.290E-05	1.43	4.23E-06	1.41	1.74E-05	1.42	2.81E-05	1.46	1.910E-05	1.42
1993	1.080E-05	1.43	3.56E-06	1.41	1.46E-05	1.42	2.37E-05	1.46	1.610E-05	1.42
1994	5.860E-06	1.43	1.92E-06	1.41	7.89E-06	1.42	1.28E-05	1.46	8.690E-06	1.42
1995	7.320E-06	1.43	2.41E-06	1.41	9.86E-06	1.42	1.60E-05	1.46	1.090E-05	1.42
1996	1.320E-05	1.43	4.33E-06	1.41	1.77E-05	1.42	2.88E-05	1.46	1.960E-05	1.42
1997	1.730E-05	1.43	5.68E-06	1.41	2.33E-05	1.42	3.77E-05	1.46	2.560E-05	1.42
1998	1.080E-05	1.43	3.56E-06	1.41	1.46E-05	1.42	2.37E-05	1.46	1.610E-05	1.42
1999	1.230E-05	1.43	4.04E-06	1.41	1.66E-05	1.42	2.69E-05	1.46	1.830E-05	1.42
2000	9.670E-06	1.43	3.18E-06	1.41	1.30E-05	1.42	2.11E-05	1.46	1.430E-05	1.42
2001	8.490E-06	1.43	2.79E-06	1.41	1.14E-05	1.42	1.85E-05	1.46	1.260E-05	1.42

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	6.09E-04	2.28	8.88E-04	2.28	6.37E-04	2.29	8.700E-04	2.28	1.33E-03	2.29
1945	2.65E-01	1.49	2.88E-01	1.50	2.14E-01	1.51	3.190E-01	1.50	1.13E+00	1.52
1946	4.05E-01	1.47	3.98E-01	1.47	2.99E-01	1.48	4.620E-01	1.47	1.98E+00	1.49
1947	2.85E-01	1.46	3.00E-01	1.46	2.23E-01	1.47	3.370E-01	1.46	1.28E+00	1.48
1948	1.01E-01	1.57	1.05E-01	1.57	7.84E-02	1.58	1.190E-01	1.56	4.54E-01	1.61
1949	2.85E-03	1.47	3.17E-03	1.48	2.34E-03	1.49	3.480E-03	1.47	1.18E-02	1.48
1950	5.11E-03	1.46	5.41E-03	1.47	4.02E-03	1.48	6.060E-03	1.46	2.28E-02	1.48
1951	7.37E-03	1.46	8.03E-03	1.47	5.95E-03	1.48	8.880E-03	1.46	3.15E-02	1.48
1952	1.10E-02	1.47	1.22E-02	1.48	1.34E-02	1.50	2.110E-02	1.50	2.26E-02	1.47
1953	1.43E-02	1.50	1.58E-02	1.51	1.90E-02	1.53	3.020E-02	1.52	2.17E-02	1.49
1954	1.85E-02	1.49	2.09E-02	1.49	2.42E-02	1.51	3.820E-02	1.51	2.91E-02	1.48
1955	2.15E-02	1.50	2.44E-02	1.50	2.81E-02	1.53	4.410E-02	1.52	3.40E-02	1.49
1956	3.33E-02	1.48	2.67E-02	1.48	2.89E-02	1.49	4.930E-02	1.48	2.77E-01	1.54
1957	5.10E-02	1.47	3.82E-02	1.46	3.90E-02	1.47	6.810E-02	1.46	5.03E-01	1.51
1958	5.27E-02	1.49	3.76E-02	1.47	3.66E-02	1.47	6.490E-02	1.47	5.72E-01	1.53
1959	6.05E-02	1.50	4.18E-02	1.47	3.92E-02	1.47	7.040E-02	1.47	6.99E-01	1.52
1960	6.74E-02	1.51	4.53E-02	1.48	4.10E-02	1.49	7.470E-02	1.48	8.17E-01	1.53
1961	7.27E-02	1.49	5.15E-02	1.47	4.95E-02	1.47	8.820E-02	1.47	8.04E-01	1.52
1962	9.45E-02	1.50	6.56E-02	1.48	6.17E-02	1.48	1.110E-01	1.47	1.08E+00	1.53
1963	9.01E-02	1.51	6.48E-02	1.49	6.34E-02	1.49	1.120E-01	1.48	9.66E-01	1.56
1964	1.04E-01	1.50	7.65E-02	1.48	7.65E-02	1.48	1.340E-01	1.48	1.07E+00	1.55
1965	9.98E-02	1.49	7.33E-02	1.47	7.32E-02	1.48	1.290E-01	1.47	1.03E+00	1.54
1966	9.03E-02	1.52	7.25E-02	1.53	7.88E-02	1.56	1.350E-01	1.54	7.39E-01	1.58
1967	7.55E-02	1.55	4.64E-02	1.52	3.71E-02	1.55	7.080E-02	1.53	1.04E+00	1.54
1968	7.77E-02	1.54	4.77E-02	1.52	3.82E-02	1.54	7.290E-02	1.53	1.07E+00	1.53
1969	6.20E-02	1.54	3.81E-02	1.52	3.05E-02	1.55	5.820E-02	1.53	8.54E-01	1.54
1970	1.38E-02	1.77	8.50E-03	1.75	6.80E-03	1.77	1.300E-02	1.76	1.91E-01	1.76
1971	3.77E-02	1.65	2.31E-02	1.63	1.85E-02	1.65	3.530E-02	1.64	5.19E-01	1.64
1972	3.24E-03	2.08	1.99E-03	2.06	1.59E-03	2.08	3.040E-03	2.07	4.46E-02	2.07
All years from 1973 through 1982 have values of 0.00										
1983	1.10E-04	1.43	6.76E-05	1.41	5.41E-05	1.44	1.030E-04	1.42	1.52E-03	1.42
1984	8.44E-04	1.43	5.18E-04	1.41	4.15E-04	1.44	7.920E-04	1.42	1.16E-02	1.42
1985	3.12E-04	1.43	1.92E-04	1.41	1.53E-04	1.44	2.930E-04	1.42	4.29E-03	1.42
1986	7.70E-06	1.43	4.73E-06	1.41	3.79E-06	1.44	7.230E-06	1.42	1.06E-04	1.42
1987	7.34E-06	1.43	4.51E-06	1.41	3.61E-06	1.44	6.880E-06	1.42	1.01E-04	1.42
1988	3.67E-06	1.43	2.25E-06	1.41	1.80E-06	1.44	3.440E-06	1.42	5.05E-05	1.42
1989	1.69E-04	1.43	1.04E-04	1.41	8.30E-05	1.44	1.580E-04	1.42	2.32E-03	1.42
1990	1.94E-04	1.43	1.19E-04	1.41	9.56E-05	1.44	1.820E-04	1.42	2.68E-03	1.42
1991	8.80E-05	1.43	5.41E-05	1.41	4.33E-05	1.44	8.260E-05	1.42	1.21E-03	1.42
1992	1.61E-05	1.43	9.92E-06	1.41	7.94E-06	1.44	1.510E-05	1.42	2.22E-04	1.42
1993	1.36E-05	1.43	8.34E-06	1.41	6.67E-06	1.44	1.270E-05	1.42	1.87E-04	1.42
1994	7.34E-06	1.43	4.51E-06	1.41	3.61E-06	1.44	6.880E-06	1.42	1.01E-04	1.42
1995	9.17E-06	1.43	5.63E-06	1.41	4.51E-06	1.44	8.600E-06	1.42	1.26E-04	1.42
1996	1.65E-05	1.43	1.01E-05	1.41	8.12E-06	1.44	1.550E-05	1.42	2.27E-04	1.42
1997	2.16E-05	1.43	1.33E-05	1.41	1.06E-05	1.44	2.030E-05	1.42	2.98E-04	1.42
1998	1.36E-05	1.43	8.34E-06	1.41	6.67E-06	1.44	1.270E-05	1.42	1.87E-04	1.42
1999	1.54E-05	1.43	9.47E-06	1.41	7.58E-06	1.44	1.450E-05	1.42	2.12E-04	1.42
2000	1.21E-05	1.43	7.44E-06	1.41	5.95E-06	1.44	1.140E-05	1.42	1.67E-04	1.42
2001	1.06E-05	1.43	6.54E-06	1.41	5.23E-06	1.44	9.980E-06	1.42	1.47E-04	1.42

Table A-18. Nuclide Sr/Y90, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	6.54E-04	2.29	1.37E-03	2.28	4.840E-03	2.46				
1945	2.23E-01	1.51	9.89E-01	1.51	1.250E+00	1.72				
1946	3.14E-01	1.48	1.69E+00	1.49	1.550E+00	1.66				
1947	2.34E-01	1.47	1.11E+00	1.48	1.260E+00	1.66				
1948	8.21E-02	1.58	3.93E-01	1.60	4.330E-01	1.79				
1949	2.44E-03	1.49	1.04E-02	1.48	1.410E-02	1.69				
1950	4.21E-03	1.47	1.97E-02	1.48	2.280E-02	1.67				
1951	6.21E-03	1.48	2.76E-02	1.48	3.490E-02	1.68				
1952	1.48E-02	1.50	2.20E-02	1.47	3.670E-02	1.56				
1953	2.12E-02	1.52	2.25E-02	1.50	4.060E-02	1.52				
1954	2.69E-02	1.51	3.01E-02	1.48	5.980E-02	1.53				
1955	3.11E-02	1.52	3.52E-02	1.49	7.100E-02	1.55				
1956	3.20E-02	1.49	1.89E-01	1.55	4.990E-02	1.49				
1957	4.31E-02	1.46	3.37E-01	1.52	6.870E-02	1.47				
1958	4.03E-02	1.47	3.80E-01	1.54	6.680E-02	1.48				
1959	4.30E-02	1.47	4.61E-01	1.54	7.340E-02	1.48				
1960	4.49E-02	1.48	5.37E-01	1.55	7.880E-02	1.50				
1961	5.45E-02	1.47	5.32E-01	1.54	9.100E-02	1.48				
1962	6.77E-02	1.47	7.16E-01	1.54	1.150E-01	1.49				
1963	6.98E-02	1.48	6.42E-01	1.57	1.150E-01	1.49				
1964	8.44E-02	1.48	7.14E-01	1.56	1.370E-01	1.49				
1965	8.07E-02	1.48	6.85E-01	1.55	1.310E-01	1.48				
1966	8.75E-02	1.55	5.05E-01	1.58	1.330E-01	1.55				
1967	4.01E-02	1.54	6.77E-01	1.55	7.810E-02	1.55				
1968	4.13E-02	1.54	6.97E-01	1.55	8.040E-02	1.54				
1969	3.30E-02	1.54	5.56E-01	1.55	6.420E-02	1.55				
1970	7.36E-03	1.77	1.24E-01	1.78	1.430E-02	1.77				
1971	2.00E-02	1.65	3.38E-01	1.66	3.900E-02	1.65				
1972	1.72E-03	2.07	2.90E-02	2.08	3.350E-03	2.08				
All years from 1973 through 1982 have values of 0.00										
1983	5.85E-05	1.43	9.87E-04	1.44	1.140E-04	1.44				
1984	4.49E-04	1.43	7.57E-03	1.44	8.740E-04	1.44				
1985	1.66E-04	1.43	2.80E-03	1.44	3.230E-04	1.44				
1986	4.10E-06	1.43	6.91E-05	1.44	7.980E-06	1.44				
1987	3.90E-06	1.43	6.58E-05	1.44	7.600E-06	1.44				
1988	1.95E-06	1.43	3.29E-05	1.44	3.800E-06	1.44				
1989	8.98E-05	1.43	1.51E-03	1.44	1.750E-04	1.44				
1990	1.03E-04	1.43	1.74E-03	1.44	2.010E-04	1.44				
1991	4.68E-05	1.43	7.90E-04	1.44	9.120E-05	1.44				
1992	8.59E-06	1.43	1.45E-04	1.44	1.670E-05	1.44				
1993	7.22E-06	1.43	1.22E-04	1.44	1.410E-05	1.44				
1994	3.90E-06	1.43	6.58E-05	1.44	7.600E-06	1.44				
1995	4.88E-06	1.43	8.22E-05	1.44	9.500E-06	1.44				
1996	8.78E-06	1.43	1.48E-04	1.44	1.710E-05	1.44				
1997	1.15E-05	1.43	1.94E-04	1.44	2.240E-05	1.44				
1998	7.22E-06	1.43	1.22E-04	1.44	1.410E-05	1.44				
1999	8.20E-06	1.43	1.38E-04	1.44	1.600E-05	1.44				
2000	6.44E-06	1.43	1.09E-04	1.44	1.250E-05	1.44				
2001	5.66E-06	1.43	9.54E-05	1.44	1.100E-05	1.44				

Table A-19. Nuclide Zr/Nb95. Bq/yr

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.91E-01	5.33	4.290E-02	5.12	9.30E-02	5.16	4.09E-02	5.12	1.16E-01	5.20
1945	4.48E+01	2.66	5.240E+01	2.60	2.42E+01	2.45	3.66E+01	2.50	2.90E+01	2.50
1946	3.96E+01	2.43	7.920E+01	2.41	2.28E+01	2.22	5.22E+01	2.35	2.67E+01	2.28
1947	3.78E+01	2.43	5.160E+01	2.33	2.06E+01	2.22	3.52E+01	2.26	2.46E+01	2.27
1948	1.58E+01	2.74	3.080E+01	2.50	9.10E+00	2.49	2.05E+01	2.44	1.07E+01	2.56
1949	5.64E-01	2.86	2.360E+00	3.50	3.51E-01	3.04	1.48E+00	3.47	3.99E-01	2.98
1950	1.87E-02	5.06	1.950E-02	4.62	1.01E-02	4.76	1.43E-02	4.43	1.21E-02	4.84
1951	4.98E-01	2.47	5.740E-01	2.32	2.66E-01	2.27	3.99E-01	2.24	3.20E-01	2.32
1952	3.99E-01	2.32	2.420E-01	2.43	1.46E+00	2.47	2.13E-01	2.24	4.83E-01	2.22
1953	4.13E-01	2.19	1.720E-01	2.30	2.11E+00	2.53	1.71E-01	2.31	5.78E-01	2.36
1954	7.25E-01	2.39	2.460E-01	2.13	2.05E+00	2.39	2.42E-01	2.13	7.77E-01	2.16
1955	8.26E-01	2.35	2.920E-01	2.18	2.64E+00	2.51	2.87E-01	2.19	9.31E-01	2.23
1956	3.65E-01	2.18	6.240E-01	2.35	2.14E+00	2.48	1.07E+00	2.51	5.84E-01	2.32
1957	4.75E-01	2.11	1.060E+00	2.35	2.08E+00	2.44	1.97E+00	2.46	6.66E-01	2.20
1958	5.21E-01	2.19	1.360E+00	2.44	1.80E+00	2.50	2.60E+00	2.53	6.67E-01	2.21
1959	3.41E-01	2.34	1.180E+00	2.47	6.89E-01	2.18	2.34E+00	2.54	3.58E-01	2.20
1960	3.61E-01	2.41	1.250E+00	2.55	7.30E-01	2.24	2.47E+00	2.62	3.79E-01	2.27
1961	3.73E-01	2.26	1.180E+00	2.45	9.45E-01	2.30	2.30E+00	2.53	4.26E-01	2.14
1962	2.73E-01	2.33	8.310E-01	2.54	7.11E-01	2.51	1.62E+00	2.62	3.17E-01	2.24
1963	2.34E-01	2.39	7.280E-01	2.60	5.91E-01	2.50	1.42E+00	2.68	2.70E-01	2.27
1964	2.63E-01	2.40	7.870E-01	2.64	7.40E-01	2.39	1.53E+00	2.73	3.14E-01	2.24
1965	2.76E-01	2.25	7.370E-01	2.52	9.27E-01	2.50	1.41E+00	2.62	3.52E-01	2.22
1966	1.14E-01	2.70	2.080E-01	3.27	5.61E-01	2.96	3.71E-01	3.46	1.72E-01	2.72
1967	8.09E-02	2.85	3.290E-01	2.85	6.58E-02	2.85	6.62E-01	2.90	6.74E-02	2.85
1968	5.60E-02	2.71	2.280E-01	2.71	4.55E-02	2.71	4.58E-01	2.76	4.66E-02	2.71
1969	2.63E-02	2.67	1.070E-01	2.67	2.13E-02	2.67	2.15E-01	2.72	2.19E-02	2.67
1970	4.10E-03	4.13	1.670E-02	4.13	3.33E-03	4.13	3.36E-02	4.19	3.42E-03	4.14
1971	4.54E-03	4.17	1.850E-02	4.17	3.69E-03	4.17	3.72E-02	4.23	3.78E-03	4.18
1972	5.67E-04	4.49	2.310E-03	4.49	4.61E-04	4.49	4.64E-03	4.55	4.72E-04	4.49
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.480E-02	5.12	2.83E-02	5.11	2.90E-02	5.13	2.36E-02	5.13	2.110E-02	5.12
1945	1.030E+01	2.26	1.28E+01	2.26	1.36E+01	2.27	1.10E+01	2.27	9.820E+00	2.27
1946	1.170E+01	2.13	1.51E+01	2.15	1.62E+01	2.16	1.31E+01	2.16	1.170E+01	2.16
1947	9.140E+00	2.06	1.15E+01	2.06	1.23E+01	2.07	9.90E+00	2.07	8.850E+00	2.07
1948	4.720E+00	2.25	6.06E+00	2.26	6.50E+00	2.27	5.23E+00	2.27	4.680E+00	2.26
1949	2.540E-01	3.32	3.43E-01	3.34	3.74E-01	3.35	3.00E-01	3.35	2.690E-01	3.35
1950	4.330E-03	4.26	5.41E-03	4.21	5.73E-03	4.21	4.63E-03	4.21	4.140E-03	4.21
1951	1.110E-01	2.08	1.39E-01	2.07	1.47E-01	2.08	1.19E-01	2.08	1.060E-01	2.07
1952	9.700E-02	2.12	1.20E-01	2.12	1.30E-01	2.13	1.06E-01	2.13	9.450E-02	2.13
1953	9.920E-02	2.30	1.22E-01	2.32	1.33E-01	2.34	1.09E-01	2.34	9.710E-02	2.34
1954	1.420E-01	2.13	1.71E-01	2.13	1.83E-01	2.14	1.50E-01	2.14	1.330E-01	2.14
1955	1.690E-01	2.18	2.04E-01	2.19	2.18E-01	2.21	1.78E-01	2.21	1.590E-01	2.20
1956	1.830E-01	2.16	2.59E-01	2.18	2.90E-01	2.19	2.33E-01	2.18	2.070E-01	2.18
1957	2.680E-01	2.18	3.89E-01	2.21	4.37E-01	2.21	3.49E-01	2.21	3.100E-01	2.20
1958	3.170E-01	2.29	4.68E-01	2.33	5.27E-01	2.33	4.19E-01	2.32	3.720E-01	2.32
1959	2.430E-01	2.42	3.70E-01	2.43	4.18E-01	2.43	3.30E-01	2.43	2.920E-01	2.43
1960	2.560E-01	2.49	3.90E-01	2.51	4.41E-01	2.51	3.48E-01	2.51	3.080E-01	2.51
1961	2.510E-01	2.37	3.78E-01	2.39	4.27E-01	2.39	3.38E-01	2.39	2.990E-01	2.39
1962	1.800E-01	2.44	2.70E-01	2.47	3.05E-01	2.47	2.42E-01	2.46	2.140E-01	2.46
1963	1.560E-01	2.50	2.35E-01	2.53	2.65E-01	2.53	2.10E-01	2.53	1.860E-01	2.53
1964	1.710E-01	2.53	2.57E-01	2.56	2.90E-01	2.56	2.30E-01	2.56	2.030E-01	2.56
1965	1.690E-01	2.38	2.51E-01	2.41	2.83E-01	2.42	2.25E-01	2.41	1.990E-01	2.41
1966	5.820E-02	2.92	8.26E-02	2.99	9.26E-02	3.00	7.43E-02	2.99	6.600E-02	2.98
1967	6.370E-02	2.84	9.85E-02	2.84	1.11E-01	2.84	8.79E-02	2.84	7.770E-02	2.84
1968	4.410E-02	2.70	6.82E-02	2.71	7.72E-02	2.70	6.08E-02	2.70	5.380E-02	2.70
1969	2.070E-02	2.66	3.20E-02	2.67	3.62E-02	2.67	2.85E-02	2.66	2.520E-02	2.66
1970	3.230E-03	4.13	4.99E-03	4.13	5.65E-03	4.13	4.46E-03	4.13	3.940E-03	4.13
1971	3.570E-03	4.17	5.53E-03	4.17	6.26E-03	4.17	4.93E-03	4.17	4.360E-03	4.17
1972	4.460E-04	4.48	6.90E-04	4.49	7.81E-04	4.48	6.16E-04	4.48	5.450E-04	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.57E-02	5.13	3.72E-02	5.12	1.33E-02	5.12	1.970E-02	5.12	1.40E-02	5.12
1945	1.18E+01	2.27	1.47E+01	2.25	5.47E+00	2.26	9.250E+00	2.27	6.55E+00	2.27
1946	1.40E+01	2.16	1.65E+01	2.12	6.24E+00	2.13	1.100E+01	2.16	7.80E+00	2.16
1947	1.07E+01	2.07	1.30E+01	2.05	4.87E+00	2.06	8.350E+00	2.07	5.90E+00	2.07
1948	5.62E+00	2.27	6.64E+00	2.25	2.50E+00	2.25	4.420E+00	2.27	3.12E+00	2.26
1949	3.20E-01	3.36	3.49E-01	3.30	1.34E-01	3.32	2.550E-01	3.36	1.80E-01	3.35
1950	4.99E-03	4.22	6.18E-03	4.28	2.31E-03	4.26	3.900E-03	4.21	2.76E-03	4.21
1951	1.28E-01	2.08	1.59E-01	2.08	5.92E-02	2.08	1.000E-01	2.07	7.09E-02	2.07
1952	1.16E-01	2.14	1.38E-01	2.11	5.63E-02	2.13	8.680E-02	2.12	6.35E-02	2.13
1953	1.19E-01	2.34	1.40E-01	2.28	5.94E-02	2.32	8.840E-02	2.33	6.55E-02	2.34
1954	1.64E-01	2.14	2.05E-01	2.13	8.24E-02	2.13	1.220E-01	2.13	8.96E-02	2.14
1955	1.95E-01	2.21	2.42E-01	2.18	9.82E-02	2.20	1.460E-01	2.20	1.07E-01	2.21
1956	2.49E-01	2.18	2.42E-01	2.15	1.07E-01	2.15	1.920E-01	2.19	1.39E-01	2.17
1957	3.70E-01	2.20	3.50E-01	2.16	1.54E-01	2.16	2.910E-01	2.22	2.07E-01	2.20
1958	4.42E-01	2.32	4.10E-01	2.28	1.80E-01	2.28	3.510E-01	2.33	2.49E-01	2.32
1959	3.45E-01	2.43	3.10E-01	2.41	1.35E-01	2.41	2.780E-01	2.44	1.95E-01	2.43
1960	3.64E-01	2.51	3.27E-01	2.48	1.43E-01	2.48	2.930E-01	2.51	2.06E-01	2.50
1961	3.54E-01	2.39	3.21E-01	2.36	1.41E-01	2.35	2.840E-01	2.39	2.00E-01	2.38
1962	2.54E-01	2.46	2.31E-01	2.43	1.01E-01	2.42	2.030E-01	2.47	1.43E-01	2.46
1963	2.21E-01	2.53	2.00E-01	2.49	8.78E-02	2.49	1.770E-01	2.53	1.24E-01	2.52
1964	2.41E-01	2.56	2.20E-01	2.52	9.65E-02	2.51	1.930E-01	2.57	1.36E-01	2.55
1965	2.37E-01	2.41	2.19E-01	2.36	9.62E-02	2.36	1.880E-01	2.42	1.33E-01	2.40
1966	7.91E-02	2.97	7.68E-02	2.89	3.40E-02	2.88	6.150E-02	3.01	4.43E-02	2.98
1967	9.15E-02	2.85	8.06E-02	2.84	3.52E-02	2.84	7.430E-02	2.84	5.18E-02	2.84
1968	6.34E-02	2.71	5.58E-02	2.70	2.43E-02	2.70	5.140E-02	2.71	3.59E-02	2.70
1969	2.97E-02	2.67	2.62E-02	2.66	1.14E-02	2.66	2.410E-02	2.67	1.68E-02	2.66
1970	4.64E-03	4.14	4.09E-03	4.12	1.78E-03	4.13	3.770E-03	4.13	2.63E-03	4.13
1971	5.14E-03	4.18	4.53E-03	4.16	1.97E-03	4.17	4.170E-03	4.17	2.91E-03	4.17
1972	6.41E-04	4.49	5.65E-04	4.48	2.46E-04	4.48	5.200E-04	4.49	3.63E-04	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.60E-02	5.13	1.51E-02	5.11	2.510E-02	5.13	3.20E-02	5.11	1.20E-01	5.12
1945	7.36E+00	2.27	5.45E+00	2.26	9.680E+00	2.26	1.52E+01	2.27	3.84E+01	2.31
1946	8.73E+00	2.16	5.95E+00	2.11	1.080E+01	2.12	1.83E+01	2.16	4.00E+01	2.12
1947	6.63E+00	2.07	4.79E+00	2.06	8.570E+00	2.06	1.38E+01	2.07	3.34E+01	2.10
1948	3.50E+00	2.27	2.39E+00	2.26	4.350E+00	2.26	7.31E+00	2.27	1.61E+01	2.31
1949	2.00E-01	3.36	1.19E-01	3.27	2.250E-01	3.30	4.25E-01	3.36	7.34E-01	3.23
1950	3.10E-03	4.22	2.29E-03	4.35	4.080E-03	4.31	6.43E-03	4.19	1.61E-02	4.47
1951	7.97E-02	2.08	5.90E-02	2.09	1.050E-01	2.09	1.65E-01	2.07	4.18E-01	2.14
1952	7.11E-02	2.13	6.95E-02	2.17	1.330E-01	2.20	1.50E-01	2.13	3.31E-01	2.12
1953	7.32E-02	2.34	7.88E-02	2.36	1.530E-01	2.39	1.55E-01	2.34	3.29E-01	2.20
1954	1.01E-01	2.14	1.04E-01	2.14	1.940E-01	2.16	2.10E-01	2.13	5.33E-01	2.18
1955	1.20E-01	2.21	1.25E-01	2.22	2.350E-01	2.26	2.51E-01	2.21	6.18E-01	2.18
1956	1.54E-01	2.18	1.18E-01	2.15	2.450E-01	2.15	3.41E-01	2.18	4.30E-01	2.14
1957	2.30E-01	2.21	1.58E-01	2.10	3.300E-01	2.11	5.14E-01	2.21	5.98E-01	2.13
1958	2.75E-01	2.32	1.76E-01	2.20	3.700E-01	2.21	6.19E-01	2.33	6.86E-01	2.24
1959	2.16E-01	2.43	1.20E-01	2.36	2.560E-01	2.37	4.89E-01	2.44	4.95E-01	2.39
1960	2.28E-01	2.51	1.27E-01	2.43	2.700E-01	2.44	5.16E-01	2.51	5.22E-01	2.46
1961	2.21E-01	2.39	1.29E-01	2.28	2.740E-01	2.30	5.00E-01	2.39	5.22E-01	2.33
1962	1.58E-01	2.46	9.42E-02	2.35	1.990E-01	2.36	3.57E-01	2.47	3.77E-01	2.40
1963	1.38E-01	2.53	8.12E-02	2.41	1.720E-01	2.43	3.11E-01	2.53	3.26E-01	2.46
1964	1.50E-01	2.56	9.03E-02	2.42	1.910E-01	2.44	3.40E-01	2.56	3.60E-01	2.48
1965	1.47E-01	2.41	9.36E-02	2.27	1.970E-01	2.28	3.32E-01	2.42	3.65E-01	2.32
1966	4.90E-02	2.98	3.70E-02	2.73	7.680E-02	2.75	1.09E-01	3.00	1.36E-01	2.81
1967	5.73E-02	2.85	2.94E-02	2.84	6.300E-02	2.84	1.30E-01	2.84	1.26E-01	2.84
1968	3.97E-02	2.71	2.04E-02	2.70	4.360E-02	2.71	9.03E-02	2.71	8.69E-02	2.70
1969	1.86E-02	2.67	9.56E-03	2.66	2.050E-02	2.67	4.24E-02	2.67	4.08E-02	2.67
1970	2.91E-03	4.13	1.49E-03	4.12	3.200E-03	4.13	6.61E-03	4.13	6.37E-03	4.13
1971	3.22E-03	4.17	1.65E-03	4.16	3.540E-03	4.17	7.32E-03	4.17	7.05E-03	4.17
1972	4.02E-04	4.49	2.06E-04	4.48	4.420E-04	4.49	9.14E-04	4.49	8.80E-04	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.91E-02	5.14	9.410E-02	5.20	2.06E-02	5.11	1.56E-02	5.12	1.46E-02	5.11
1945	1.31E+01	2.28	2.990E+01	2.35	7.80E+00	2.26	7.28E+00	2.27	6.94E+00	2.27
1946	1.54E+01	2.17	3.110E+01	2.15	8.66E+00	2.12	8.68E+00	2.16	8.32E+00	2.16
1947	1.18E+01	2.08	2.600E+01	2.14	6.89E+00	2.06	6.57E+00	2.07	6.27E+00	2.07
1948	6.17E+00	2.28	1.240E+01	2.35	3.48E+00	2.26	3.48E+00	2.26	3.33E+00	2.26
1949	3.47E-01	3.37	5.680E-01	3.21	1.78E-01	3.29	2.00E-01	3.35	1.94E-01	3.35
1950	5.52E-03	4.24	1.240E-02	4.56	3.29E-03	4.31	3.07E-03	4.21	2.93E-03	4.20
1951	1.42E-01	2.09	3.250E-01	2.19	8.45E-02	2.09	7.89E-02	2.07	7.51E-02	2.07
1952	1.27E-01	2.13	2.800E-01	2.14	1.15E-01	2.22	7.59E-02	2.15	7.06E-02	2.14
1953	1.31E-01	2.34	2.880E-01	2.23	1.36E-01	2.40	8.04E-02	2.36	7.41E-02	2.35
1954	1.81E-01	2.14	4.490E-01	2.20	1.68E-01	2.17	1.07E-01	2.14	9.87E-02	2.13
1955	2.16E-01	2.21	5.250E-01	2.20	2.05E-01	2.27	1.28E-01	2.22	1.18E-01	2.22
1956	2.79E-01	2.19	3.800E-01	2.14	2.08E-01	2.15	1.68E-01	2.16	1.60E-01	2.17
1957	4.19E-01	2.22	5.220E-01	2.12	2.75E-01	2.10	2.47E-01	2.19	2.39E-01	2.20
1958	5.04E-01	2.34	5.930E-01	2.23	3.05E-01	2.19	2.95E-01	2.31	2.87E-01	2.31
1959	3.97E-01	2.45	4.210E-01	2.39	2.05E-01	2.35	2.28E-01	2.42	2.25E-01	2.42
1960	4.19E-01	2.52	4.440E-01	2.46	2.16E-01	2.42	2.41E-01	2.50	2.38E-01	2.50
1961	4.06E-01	2.40	4.460E-01	2.32	2.22E-01	2.27	2.35E-01	2.38	2.31E-01	2.38
1962	2.91E-01	2.48	3.230E-01	2.39	1.62E-01	2.34	1.68E-01	2.45	1.65E-01	2.45
1963	2.53E-01	2.54	2.790E-01	2.45	1.39E-01	2.40	1.46E-01	2.51	1.44E-01	2.52
1964	2.76E-01	2.57	3.090E-01	2.47	1.55E-01	2.41	1.60E-01	2.54	1.57E-01	2.55
1965	2.70E-01	2.42	3.160E-01	2.31	1.62E-01	2.26	1.58E-01	2.39	1.54E-01	2.40
1966	8.90E-02	3.00	1.190E-01	2.78	6.51E-02	2.71	5.33E-02	2.95	5.11E-02	2.97
1967	1.06E-01	2.86	1.060E-01	2.85	4.95E-02	2.84	6.03E-02	2.84	5.98E-02	2.84
1968	7.32E-02	2.72	7.310E-02	2.71	3.43E-02	2.70	4.17E-02	2.70	4.14E-02	2.70
1969	3.44E-02	2.68	3.430E-02	2.67	1.61E-02	2.66	1.96E-02	2.66	1.94E-02	2.66
1970	5.37E-03	4.14	5.360E-03	4.13	2.51E-03	4.13	3.06E-03	4.13	3.03E-03	4.12
1971	5.94E-03	4.19	5.930E-03	4.17	2.78E-03	4.17	3.38E-03	4.17	3.36E-03	4.16
1972	7.41E-04	4.50	7.400E-04	4.49	3.47E-04	4.48	4.22E-04	4.48	4.19E-04	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.760E-02	5.12	8.45E-03	5.11	2.13E-02	5.12	4.52E-02	5.12	2.030E-02	5.11
1945	7.840E+00	2.26	3.24E+00	2.25	1.00E+01	2.27	1.89E+01	2.26	1.030E+01	2.28
1946	9.200E+00	2.15	3.62E+00	2.11	1.20E+01	2.16	2.17E+01	2.15	1.260E+01	2.18
1947	7.040E+00	2.07	2.87E+00	2.05	9.07E+00	2.07	1.69E+01	2.07	9.360E+00	2.08
1948	3.690E+00	2.26	1.45E+00	2.25	4.81E+00	2.26	8.72E+00	2.27	5.030E+00	2.27
1949	2.070E-01	3.35	7.50E-02	3.29	2.78E-01	3.35	4.72E-01	3.35	3.020E-01	3.36
1950	3.310E-03	4.22	1.37E-03	4.30	4.24E-03	4.20	7.98E-03	4.26	4.330E-03	4.18
1951	8.490E-02	2.07	3.51E-02	2.08	1.09E-01	2.07	2.05E-01	2.08	1.110E-01	2.08
1952	8.690E-02	2.16	4.44E-02	2.20	9.93E-02	2.13	2.17E-01	2.16	9.690E-02	2.13
1953	9.410E-02	2.36	5.14E-02	2.39	1.03E-01	2.34	2.38E-01	2.36	9.860E-02	2.34
1954	1.240E-01	2.14	6.51E-02	2.16	1.39E-01	2.13	3.14E-01	2.14	1.330E-01	2.13
1955	1.490E-01	2.23	7.88E-02	2.25	1.67E-01	2.21	3.77E-01	2.22	1.590E-01	2.21
1956	1.850E-01	2.15	8.08E-02	2.14	2.23E-01	2.17	4.34E-01	2.15	2.310E-01	2.19
1957	2.680E-01	2.17	1.08E-01	2.10	3.34E-01	2.20	6.15E-01	2.16	3.530E-01	2.22
1958	3.150E-01	2.29	1.22E-01	2.20	4.01E-01	2.32	7.14E-01	2.28	4.290E-01	2.34
1959	2.390E-01	2.42	8.35E-02	2.36	3.16E-01	2.43	5.29E-01	2.42	3.450E-01	2.43
1960	2.520E-01	2.49	8.82E-02	2.43	3.33E-01	2.50	5.58E-01	2.50	3.640E-01	2.51
1961	2.470E-01	2.37	8.96E-02	2.28	3.23E-01	2.38	5.52E-01	2.37	3.510E-01	2.39
1962	1.780E-01	2.44	6.51E-02	2.35	2.31E-01	2.46	3.98E-01	2.44	2.500E-01	2.47
1963	1.540E-01	2.50	5.62E-02	2.41	2.01E-01	2.52	3.45E-01	2.50	2.180E-01	2.53
1964	1.690E-01	2.53	6.25E-02	2.43	2.20E-01	2.55	3.79E-01	2.52	2.380E-01	2.57
1965	1.680E-01	2.37	6.46E-02	2.27	2.15E-01	2.40	3.81E-01	2.37	2.300E-01	2.42
1966	5.850E-02	2.91	2.54E-02	2.73	7.11E-02	2.98	1.37E-01	2.87	7.410E-02	3.03
1967	6.240E-02	2.85	2.05E-02	2.83	8.40E-02	2.84	1.36E-01	2.86	9.260E-02	2.83
1968	4.320E-02	2.71	1.42E-02	2.70	5.81E-02	2.70	9.43E-02	2.73	6.410E-02	2.70
1969	2.030E-02	2.67	6.66E-03	2.66	2.73E-02	2.66	4.42E-02	2.69	3.010E-02	2.66
1970	3.160E-03	4.13	1.04E-03	4.12	4.26E-03	4.12	6.91E-03	4.15	4.690E-03	4.12
1971	3.500E-03	4.17	1.15E-03	4.16	4.72E-03	4.16	7.65E-03	4.19	5.200E-03	4.16
1972	4.370E-04	4.49	1.44E-04	4.48	5.89E-04	4.48	9.55E-04	4.51	6.490E-04	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	2.41E-02	5.12	3.51E-02	5.12	2.52E-02	5.14	3.440E-02	5.12	5.25E-02	5.14
1945	1.04E+01	2.26	1.11E+01	2.31	8.26E+00	2.31	1.250E+01	2.27	4.25E+01	2.43
1946	1.21E+01	2.14	1.15E+01	2.11	8.70E+00	2.12	1.370E+01	2.11	5.93E+01	2.29
1947	9.33E+00	2.06	9.64E+00	2.09	7.20E+00	2.10	1.100E+01	2.06	4.05E+01	2.19
1948	4.86E+00	2.26	4.62E+00	2.31	3.49E+00	2.30	5.490E+00	2.26	2.33E+01	2.38
1949	2.69E-01	3.34	2.10E-01	3.19	1.63E-01	3.24	2.740E-01	3.27	1.64E+00	3.42
1950	4.40E-03	4.23	4.64E-03	4.48	3.46E-03	4.46	5.250E-03	4.35	1.69E-02	4.33
1951	1.13E-01	2.07	1.21E-01	2.14	8.98E-02	2.14	1.350E-01	2.10	4.64E-01	2.18
1952	1.18E-01	2.16	1.32E-01	2.15	1.38E-01	2.25	2.160E-01	2.26	2.51E-01	2.20
1953	1.29E-01	2.36	1.46E-01	2.32	1.68E-01	2.41	2.650E-01	2.43	2.04E-01	2.28
1954	1.69E-01	2.14	2.07E-01	2.13	2.08E-01	2.18	3.150E-01	2.20	2.95E-01	2.14
1955	2.04E-01	2.23	2.46E-01	2.19	2.53E-01	2.29	3.860E-01	2.31	3.49E-01	2.18
1956	2.42E-01	2.15	1.99E-01	2.16	2.17E-01	2.22	3.710E-01	2.19	1.66E+00	2.50
1957	3.46E-01	2.16	2.64E-01	2.10	2.69E-01	2.12	4.700E-01	2.10	3.12E+00	2.43
1958	4.04E-01	2.28	2.93E-01	2.19	2.85E-01	2.17	5.080E-01	2.17	4.16E+00	2.49
1959	3.02E-01	2.41	1.98E-01	2.34	1.74E-01	2.29	3.200E-01	2.31	3.79E+00	2.49
1960	3.18E-01	2.49	2.09E-01	2.42	1.84E-01	2.36	3.380E-01	2.38	4.00E+00	2.56
1961	3.14E-01	2.36	2.14E-01	2.27	1.96E-01	2.21	3.550E-01	2.23	3.72E+00	2.48
1962	2.26E-01	2.43	1.56E-01	2.33	1.44E-01	2.28	2.610E-01	2.29	2.61E+00	2.57
1963	1.96E-01	2.49	1.34E-01	2.40	1.23E-01	2.33	2.240E-01	2.35	2.29E+00	2.63
1964	2.15E-01	2.52	1.50E-01	2.41	1.40E-01	2.33	2.520E-01	2.35	2.47E+00	2.68
1965	2.15E-01	2.36	1.56E-01	2.26	1.51E-01	2.21	2.690E-01	2.22	2.26E+00	2.58
1966	7.65E-02	2.87	6.24E-02	2.71	6.66E-02	2.67	1.150E-01	2.67	5.82E-01	3.44
1967	7.81E-02	2.85	4.80E-02	2.83	3.84E-02	2.85	7.330E-02	2.84	1.08E+00	2.84
1968	5.41E-02	2.71	3.32E-02	2.69	2.66E-02	2.71	5.070E-02	2.70	7.45E-01	2.70
1969	2.54E-02	2.67	1.56E-02	2.65	1.25E-02	2.67	2.380E-02	2.66	3.49E-01	2.66
1970	3.96E-03	4.13	2.43E-03	4.12	1.95E-03	4.13	3.720E-03	4.12	5.46E-02	4.13
1971	4.39E-03	4.17	2.70E-03	4.16	2.16E-03	4.18	4.120E-03	4.16	6.04E-02	4.17
1972	5.47E-04	4.49	3.36E-04	4.47	2.69E-04	4.49	5.140E-04	4.48	7.54E-03	4.48
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-19. Nuclide Zr/Nb95, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	2.58E-02	5.14	5.43E-02	5.13	1.910E-01	5.33				
1945	8.65E+00	2.30	3.77E+01	2.38	4.480E+01	2.66				
1946	9.18E+00	2.12	5.06E+01	2.27	3.960E+01	2.43				
1947	7.55E+00	2.09	3.54E+01	2.16	3.780E+01	2.43				
1948	3.68E+00	2.29	2.00E+01	2.35	1.580E+01	2.74				
1949	1.74E-01	3.24	1.35E+00	3.42	5.640E-01	2.86				
1950	3.62E-03	4.44	1.53E-02	4.26	1.870E-02	5.06				
1951	9.40E-02	2.13	4.10E-01	2.15	4.980E-01	2.47				
1952	1.52E-01	2.26	2.46E-01	2.16	3.990E-01	2.32				
1953	1.87E-01	2.42	2.11E-01	2.29	4.130E-01	2.19				
1954	2.26E-01	2.19	3.05E-01	2.13	7.250E-01	2.39				
1955	2.76E-01	2.30	3.61E-01	2.18	8.260E-01	2.35				
1956	2.41E-01	2.22	1.16E+00	2.45	3.650E-01	2.18				
1957	2.97E-01	2.11	2.11E+00	2.41	4.750E-01	2.11				
1958	3.14E-01	2.16	2.77E+00	2.48	5.210E-01	2.19				
1959	1.89E-01	2.28	2.49E+00	2.49	3.410E-01	2.34				
1960	2.00E-01	2.35	2.62E+00	2.57	3.610E-01	2.41				
1961	2.14E-01	2.20	2.45E+00	2.48	3.730E-01	2.26				
1962	1.58E-01	2.27	1.72E+00	2.57	2.730E-01	2.33				
1963	1.35E-01	2.33	1.51E+00	2.63	2.340E-01	2.39				
1964	1.54E-01	2.32	1.63E+00	2.68	2.630E-01	2.40				
1965	1.66E-01	2.21	1.50E+00	2.57	2.760E-01	2.25				
1966	7.38E-02	2.66	4.00E-01	3.40	1.140E-01	2.70				
1967	4.16E-02	2.84	7.01E-01	2.85	8.090E-02	2.85				
1968	2.88E-02	2.71	4.85E-01	2.72	5.600E-02	2.71				
1969	1.35E-02	2.67	2.28E-01	2.68	2.630E-02	2.67				
1970	2.11E-03	4.13	3.55E-02	4.14	4.100E-03	4.13				
1971	2.33E-03	4.17	3.93E-02	4.18	4.540E-03	4.17				
1972	2.91E-04	4.49	4.91E-03	4.50	5.670E-04	4.49				
1973 through 2001 all values are 0.00 Reactors Shut Down										

Table A-20. Nuclide Pu239. Bq/yr.

Date	T Plant		B Plant		REDOX		PUREX		Z Plant	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	9.75E-06	12.00	2.190E-06	11.70	4.74E-06	11.80	2.09E-06	11.70	5.92E-06	11.80
1945	5.77E-03	7.25	6.840E-03	7.04	3.21E-03	6.85	4.91E-03	6.81	3.81E-03	6.97
1946	8.16E-03	6.64	1.470E-02	6.43	4.85E-03	6.19	1.00E-02	6.28	5.63E-03	6.31
1947	7.26E-03	6.40	9.710E-03	6.30	4.12E-03	6.01	6.83E-03	6.11	4.86E-03	6.12
1948	1.57E-03	8.27	2.110E-03	8.18	8.93E-04	7.82	1.49E-03	7.96	1.05E-03	7.94
1949	1.52E-04	5.70	1.200E-04	5.97	2.21E-04	6.16	9.51E-05	5.64	2.15E-04	6.01
1950	2.41E-04	5.61	2.070E-04	5.96	3.50E-04	6.10	1.61E-04	5.64	3.39E-04	5.95
1951	3.56E-04	5.59	2.840E-04	5.87	5.16E-04	6.02	2.24E-04	5.55	5.01E-04	5.88
1952	4.49E-04	5.25	2.060E-04	5.58	1.62E-03	5.69	2.00E-04	5.26	8.35E-04	5.67
1953	5.40E-04	5.27	2.080E-04	5.44	2.37E-03	5.82	2.05E-04	5.47	1.13E-03	5.73
1954	7.40E-04	5.22	2.730E-04	5.31	2.81E-03	5.79	2.68E-04	5.33	1.35E-03	5.74
1955	9.09E-04	5.29	3.310E-04	5.39	3.37E-03	5.87	3.25E-04	5.41	1.69E-03	5.82
1956	8.20E-04	5.58	7.200E-04	5.92	3.73E-03	5.71	1.01E-03	6.50	1.87E-03	6.10
1957	1.27E-03	5.52	1.330E-03	5.69	5.40E-03	5.56	2.00E-03	6.16	2.90E-03	6.08
1958	1.25E-03	5.69	1.330E-03	5.99	4.81E-03	5.78	2.06E-03	6.43	2.84E-03	6.25
1959	1.33E-03	5.70	1.520E-03	6.00	4.67E-03	5.85	2.44E-03	6.40	3.00E-03	6.29
1960	1.42E-03	5.82	1.680E-03	6.16	4.65E-03	6.06	2.74E-03	6.55	3.18E-03	6.41
1961	1.66E-03	5.72	1.840E-03	5.98	6.06E-03	5.84	2.90E-03	6.40	3.81E-03	6.29
1962	5.15E-04	7.47	2.470E-04	7.33	2.90E-03	7.70	2.69E-04	7.18	1.44E-03	7.62
1963	4.08E-04	6.01	2.130E-04	5.81	2.47E-03	6.19	2.41E-04	5.65	1.10E-03	6.17
1964	5.07E-04	5.94	2.820E-04	5.79	3.12E-03	6.19	3.08E-04	5.91	1.33E-03	6.09
1965	7.25E-04	7.45	3.570E-04	7.37	4.53E-03	7.67	3.79E-04	7.27	1.94E-03	7.62
1966	6.08E-04	6.90	2.940E-04	6.71	3.71E-03	6.91	3.10E-04	6.62	1.66E-03	7.13
1967	1.26E-05	9.05	2.040E-05	6.77	3.96E-05	9.51	3.59E-05	6.62	3.38E-05	9.54
1968	1.47E-05	6.01	1.910E-05	6.25	3.78E-05	6.60	3.21E-05	6.58	3.28E-05	6.60
1969	1.11E-05	6.05	1.450E-05	6.31	2.84E-05	6.65	2.45E-05	6.64	2.46E-05	6.65
1970	2.70E-06	7.62	2.500E-06	7.95	8.20E-06	8.05	3.77E-06	8.50	7.03E-06	8.07
1971	5.39E-06	7.05	6.940E-06	7.35	1.39E-05	7.69	1.17E-05	7.72	1.20E-05	7.69
1972	3.49E-07	9.67	4.530E-07	10.00	8.94E-07	10.40	7.60E-07	10.40	7.76E-07	10.40
All years from 1973 through 1982 have values of 0.00										
1983	2.35E-05	1.44	9.590E-05	1.43	1.91E-05	1.43	1.93E-04	1.51	1.96E-05	1.44
1984	2.81E-04	1.44	1.140E-03	1.43	2.28E-04	1.43	2.30E-03	1.51	2.34E-04	1.44
1985	3.80E-04	1.44	1.550E-03	1.43	3.09E-04	1.43	3.11E-03	1.51	3.16E-04	1.44
1986	1.14E-04	1.44	4.640E-04	1.43	9.26E-05	1.43	9.32E-04	1.51	9.49E-05	1.44
1987	1.52E-05	1.44	6.190E-05	1.43	1.23E-05	1.43	1.24E-04	1.51	1.27E-05	1.44
1988	7.60E-06	1.44	3.090E-05	1.43	6.17E-06	1.43	6.22E-05	1.51	6.33E-06	1.44
1989	1.24E-04	1.45	4.410E-05	1.42	4.92E-04	1.43	4.30E-05	1.44	4.15E-04	1.48
1990	4.53E-05	1.45	1.610E-05	1.42	1.80E-04	1.43	1.57E-05	1.44	1.52E-04	1.48
1991	6.64E-05	1.45	2.370E-05	1.42	2.64E-04	1.43	2.31E-05	1.44	2.23E-04	1.48
1992	7.09E-05	1.45	2.530E-05	1.42	2.82E-04	1.43	2.47E-05	1.44	2.38E-04	1.48
1993	8.45E-05	1.45	3.010E-05	1.42	3.36E-04	1.43	2.94E-05	1.44	2.83E-04	1.48
1994	6.34E-05	1.45	2.260E-05	1.42	2.52E-04	1.43	2.20E-05	1.44	2.13E-04	1.48
1995	1.81E-05	1.45	6.450E-06	1.42	7.20E-05	1.43	6.30E-06	1.44	6.07E-05	1.48
1996	3.62E-05	1.45	1.290E-05	1.42	1.44E-04	1.43	1.26E-05	1.44	1.21E-04	1.48
1997	1.81E-05	1.45	6.450E-06	1.42	7.20E-05	1.43	6.30E-06	1.44	6.07E-05	1.48
1998	3.02E-05	1.45	1.080E-05	1.42	1.20E-04	1.43	1.05E-05	1.44	1.01E-04	1.48
1999	3.17E-05	1.45	1.130E-05	1.42	1.26E-04	1.43	1.10E-05	1.44	1.06E-04	1.48
2000	7.70E-05	1.45	2.740E-05	1.42	3.06E-04	1.43	2.68E-05	1.44	2.58E-04	1.48
2001	2.26E-05	1.45	8.070E-06	1.42	9.00E-05	1.43	7.87E-06	1.44	7.59E-05	1.48

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.260E-06	11.70	1.44E-06	11.70	1.48E-06	11.70	1.21E-06	11.70	1.080E-06	11.70
1945	1.470E-03	6.30	1.84E-03	6.29	1.95E-03	6.31	1.58E-03	6.31	1.410E-03	6.31
1946	2.570E-03	5.76	3.27E-03	5.79	3.48E-03	5.82	2.81E-03	5.81	2.510E-03	5.81
1947	1.960E-03	5.56	2.46E-03	5.58	2.61E-03	5.60	2.11E-03	5.60	1.890E-03	5.60
1948	4.280E-04	7.31	5.37E-04	7.32	5.70E-04	7.36	4.60E-04	7.35	4.120E-04	7.35
1949	3.590E-05	5.10	4.51E-05	5.10	4.77E-05	5.11	3.87E-05	5.11	3.470E-05	5.11
1950	5.900E-05	5.03	7.42E-05	5.04	7.86E-05	5.06	6.38E-05	5.05	5.710E-05	5.05
1951	8.450E-05	5.00	1.06E-04	4.99	1.12E-04	5.01	9.11E-05	5.00	8.150E-05	5.00
1952	1.020E-04	5.12	1.27E-04	5.13	1.36E-04	5.16	1.11E-04	5.16	9.930E-05	5.16
1953	1.180E-04	5.45	1.47E-04	5.48	1.57E-04	5.51	1.29E-04	5.51	1.150E-04	5.51
1954	1.550E-04	5.31	1.91E-04	5.35	2.04E-04	5.38	1.67E-04	5.38	1.490E-04	5.38
1955	1.880E-04	5.39	2.32E-04	5.43	2.46E-04	5.46	2.02E-04	5.46	1.810E-04	5.46
1956	2.860E-04	5.29	3.85E-04	5.36	4.20E-04	5.38	3.41E-04	5.36	3.040E-04	5.36
1957	4.780E-04	5.13	6.52E-04	5.20	7.14E-04	5.22	5.78E-04	5.20	5.150E-04	5.19
1958	4.640E-04	5.39	6.34E-04	5.47	6.94E-04	5.50	5.61E-04	5.47	4.990E-04	5.47
1959	5.040E-04	5.43	6.95E-04	5.51	7.61E-04	5.54	6.14E-04	5.52	5.470E-04	5.51
1960	5.410E-04	5.59	7.49E-04	5.69	8.20E-04	5.72	6.61E-04	5.69	5.880E-04	5.69
1961	6.230E-04	5.41	8.57E-04	5.49	9.37E-04	5.51	7.56E-04	5.49	6.740E-04	5.48
1962	1.310E-04	7.46	1.67E-04	7.45	1.79E-04	7.48	1.47E-04	7.48	1.310E-04	7.47
1963	1.100E-04	5.97	1.40E-04	5.95	1.52E-04	5.97	1.24E-04	5.98	1.110E-04	5.97
1964	1.410E-04	5.92	1.82E-04	5.90	1.97E-04	5.92	1.62E-04	5.92	1.440E-04	5.92
1965	1.940E-04	7.47	2.46E-04	7.46	2.66E-04	7.49	2.18E-04	7.49	1.950E-04	7.48
1966	1.600E-04	6.78	2.04E-04	6.78	2.19E-04	6.79	1.80E-04	6.79	1.610E-04	6.79
1967	4.870E-06	7.81	7.13E-06	7.58	7.91E-06	7.52	6.30E-06	7.56	5.600E-06	7.57
1968	5.690E-06	5.78	8.00E-06	5.85	8.77E-06	5.88	7.04E-06	5.86	6.270E-06	5.86
1969	4.310E-06	5.83	6.06E-06	5.91	6.64E-06	5.94	5.34E-06	5.92	4.750E-06	5.92
1970	8.800E-07	7.32	1.20E-06	7.39	1.31E-06	7.43	1.06E-06	7.40	9.410E-07	7.40
1971	2.080E-06	6.82	2.92E-06	6.91	3.20E-06	6.94	2.57E-06	6.92	2.290E-06	6.91
1972	1.360E-07	9.38	1.90E-07	9.48	2.09E-07	9.52	1.68E-07	9.49	1.490E-07	9.49
All years from 1973 through 1982 have values of 0.00										
1983	1.850E-05	1.42	2.87E-05	1.43	3.24E-05	1.43	2.56E-05	1.42	2.260E-05	1.43
1984	2.210E-04	1.42	3.42E-04	1.43	3.87E-04	1.43	3.05E-04	1.42	2.700E-04	1.43
1985	2.990E-04	1.42	4.62E-04	1.43	5.23E-04	1.43	4.13E-04	1.42	3.650E-04	1.43
1986	8.970E-05	1.42	1.39E-04	1.43	1.57E-04	1.43	1.24E-04	1.42	1.090E-04	1.43
1987	1.200E-05	1.42	1.85E-05	1.43	2.09E-05	1.43	1.65E-05	1.42	1.460E-05	1.43
1988	5.980E-06	1.42	9.25E-06	1.43	1.05E-05	1.43	8.25E-06	1.42	7.300E-06	1.43
1989	2.450E-05	1.42	3.10E-05	1.43	3.26E-05	1.44	2.68E-05	1.44	2.400E-05	1.43
1990	8.970E-06	1.42	1.13E-05	1.43	1.19E-05	1.44	9.80E-06	1.44	8.790E-06	1.43
1991	1.320E-05	1.42	1.66E-05	1.43	1.75E-05	1.44	1.44E-05	1.44	1.290E-05	1.43
1992	1.410E-05	1.42	1.78E-05	1.43	1.87E-05	1.44	1.54E-05	1.44	1.380E-05	1.43
1993	1.670E-05	1.42	2.12E-05	1.43	2.23E-05	1.44	1.83E-05	1.44	1.640E-05	1.43
1994	1.260E-05	1.42	1.59E-05	1.43	1.67E-05	1.44	1.37E-05	1.44	1.230E-05	1.43
1995	3.590E-06	1.42	4.54E-06	1.43	4.77E-06	1.44	3.92E-06	1.44	3.520E-06	1.43
1996	7.180E-06	1.42	9.08E-06	1.43	9.54E-06	1.44	7.84E-06	1.44	7.030E-06	1.43
1997	3.590E-06	1.42	4.54E-06	1.43	4.77E-06	1.44	3.92E-06	1.44	3.520E-06	1.43
1998	5.980E-06	1.42	7.56E-06	1.43	7.95E-06	1.44	6.53E-06	1.44	5.860E-06	1.43
1999	6.280E-06	1.42	7.94E-06	1.43	8.35E-06	1.44	6.86E-06	1.44	6.150E-06	1.43
2000	1.520E-05	1.42	1.93E-05	1.43	2.03E-05	1.44	1.67E-05	1.44	1.490E-05	1.43
2001	4.480E-06	1.42	5.67E-06	1.43	5.97E-06	1.44	4.90E-06	1.44	4.400E-06	1.43

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.31E-06	11.70	1.90E-06	11.70	6.81E-07	11.70	1.000E-06	11.70	7.16E-07	11.70
1945	1.70E-03	6.32	2.10E-03	6.31	7.85E-04	6.31	1.330E-03	6.31	9.41E-04	6.31
1946	3.02E-03	5.82	3.64E-03	5.74	1.37E-03	5.76	2.370E-03	5.82	1.68E-03	5.81
1947	2.27E-03	5.60	2.80E-03	5.56	1.04E-03	5.56	1.780E-03	5.60	1.26E-03	5.59
1948	4.95E-04	7.35	6.11E-04	7.30	2.28E-04	7.30	3.880E-04	7.35	2.74E-04	7.35
1949	4.21E-05	5.11	5.17E-05	5.12	2.02E-05	5.11	3.240E-05	5.11	2.32E-05	5.11
1950	6.93E-05	5.05	8.48E-05	5.04	3.32E-05	5.04	5.340E-05	5.05	3.82E-05	5.05
1951	9.90E-05	5.01	1.21E-04	5.01	4.75E-05	5.00	7.620E-05	5.00	5.45E-05	5.00
1952	1.22E-04	5.16	1.47E-04	5.11	6.07E-05	5.16	9.140E-05	5.14	6.67E-05	5.16
1953	1.42E-04	5.51	1.70E-04	5.43	7.19E-05	5.48	1.050E-04	5.49	7.76E-05	5.51
1954	1.84E-04	5.38	2.24E-04	5.29	9.32E-05	5.35	1.370E-04	5.36	1.00E-04	5.38
1955	2.22E-04	5.47	2.72E-04	5.38	1.13E-04	5.43	1.660E-04	5.44	1.21E-04	5.46
1956	3.69E-04	5.35	3.94E-04	5.28	1.72E-04	5.27	2.810E-04	5.38	2.04E-04	5.35
1957	6.23E-04	5.18	6.53E-04	5.13	2.85E-04	5.11	4.780E-04	5.22	3.45E-04	5.19
1958	6.04E-04	5.45	6.34E-04	5.36	2.76E-04	5.35	4.640E-04	5.49	3.35E-04	5.46
1959	6.60E-04	5.50	6.89E-04	5.40	2.99E-04	5.39	5.100E-04	5.54	3.67E-04	5.51
1960	7.09E-04	5.67	7.38E-04	5.56	3.20E-04	5.55	5.490E-04	5.71	3.94E-04	5.68
1961	8.14E-04	5.47	8.51E-04	5.38	3.70E-04	5.37	6.270E-04	5.51	4.52E-04	5.48
1962	1.62E-04	7.48	1.86E-04	7.46	8.11E-05	7.46	1.200E-04	7.46	8.85E-05	7.48
1963	1.37E-04	5.98	1.55E-04	5.97	6.79E-05	5.97	1.020E-04	5.96	7.49E-05	5.98
1964	1.77E-04	5.93	1.99E-04	5.91	8.73E-05	5.93	1.320E-04	5.90	9.73E-05	5.92
1965	2.40E-04	7.49	2.75E-04	7.46	1.20E-04	7.47	1.780E-04	7.47	1.32E-04	7.49
1966	1.98E-04	6.79	2.27E-04	6.79	9.95E-05	6.78	1.470E-04	6.78	1.09E-04	6.79
1967	6.67E-06	7.63	6.44E-06	8.00	2.80E-06	7.95	5.310E-06	7.52	3.74E-06	7.58
1968	7.53E-06	5.85	7.73E-06	5.74	3.34E-06	5.74	5.880E-06	5.88	4.19E-06	5.85
1969	5.71E-06	5.91	5.86E-06	5.80	2.53E-06	5.80	4.460E-06	5.94	3.18E-06	5.91
1970	1.14E-06	7.39	1.22E-06	7.30	5.24E-07	7.29	8.780E-07	7.42	6.30E-07	7.39
1971	2.75E-06	6.90	2.83E-06	6.78	1.22E-06	6.78	2.150E-06	6.93	1.53E-06	6.91
1972	1.79E-07	9.47	1.84E-07	9.33	7.97E-08	9.33	1.400E-07	9.51	9.98E-08	9.48
All years from 1973 through 1982 have values of 0.00										
1983	2.66E-05	1.44	2.35E-05	1.42	1.02E-05	1.42	2.160E-05	1.43	1.51E-05	1.42
1984	3.18E-04	1.44	2.80E-04	1.42	1.22E-04	1.42	2.580E-04	1.43	1.80E-04	1.42
1985	4.30E-04	1.44	3.78E-04	1.42	1.65E-04	1.42	3.490E-04	1.43	2.43E-04	1.42
1986	1.29E-04	1.44	1.14E-04	1.42	4.95E-05	1.42	1.050E-04	1.43	7.30E-05	1.42
1987	1.72E-05	1.44	1.51E-05	1.42	6.60E-06	1.42	1.390E-05	1.43	9.73E-06	1.42
1988	8.59E-06	1.44	7.57E-06	1.42	3.30E-06	1.42	6.970E-06	1.43	4.87E-06	1.42
1989	2.96E-05	1.44	3.58E-05	1.44	1.53E-05	1.42	2.210E-05	1.43	1.61E-05	1.43
1990	1.08E-05	1.44	1.31E-05	1.44	5.61E-06	1.42	8.090E-06	1.43	5.91E-06	1.43
1991	1.59E-05	1.44	1.92E-05	1.44	8.23E-06	1.42	1.190E-05	1.43	8.66E-06	1.43
1992	1.70E-05	1.44	2.05E-05	1.44	8.79E-06	1.42	1.270E-05	1.43	9.25E-06	1.43
1993	2.02E-05	1.44	2.45E-05	1.44	1.05E-05	1.42	1.510E-05	1.43	1.10E-05	1.43
1994	1.52E-05	1.44	1.84E-05	1.44	7.86E-06	1.42	1.130E-05	1.43	8.27E-06	1.43
1995	4.33E-06	1.44	5.24E-06	1.44	2.24E-06	1.42	3.230E-06	1.43	2.36E-06	1.43
1996	8.67E-06	1.44	1.05E-05	1.44	4.49E-06	1.42	6.470E-06	1.43	4.73E-06	1.43
1997	4.33E-06	1.44	5.24E-06	1.44	2.24E-06	1.42	3.230E-06	1.43	2.36E-06	1.43
1998	7.22E-06	1.44	8.74E-06	1.44	3.74E-06	1.42	5.390E-06	1.43	3.94E-06	1.43
1999	7.59E-06	1.44	9.18E-06	1.44	3.93E-06	1.42	5.660E-06	1.43	4.14E-06	1.43
2000	1.84E-05	1.44	2.23E-05	1.44	9.54E-06	1.42	1.370E-05	1.43	1.00E-05	1.43
2001	5.42E-06	1.44	6.55E-06	1.44	2.81E-06	1.42	4.040E-06	1.43	2.95E-06	1.43

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	8.14E-07	11.70	7.69E-07	11.70	1.280E-06	11.70	1.63E-06	11.70	6.11E-06	11.70
1945	1.06E-03	6.31	7.73E-04	6.36	1.380E-03	6.34	2.19E-03	6.31	5.35E-03	6.49
1946	1.88E-03	5.81	1.32E-03	5.75	2.390E-03	5.75	3.91E-03	5.82	8.84E-03	5.83
1947	1.41E-03	5.60	1.03E-03	5.58	1.840E-03	5.57	2.93E-03	5.60	7.05E-03	5.68
1948	3.08E-04	7.35	2.24E-04	7.32	4.020E-04	7.31	6.38E-04	7.36	1.54E-03	7.43
1949	2.61E-05	5.11	2.26E-05	5.22	3.900E-05	5.18	5.33E-05	5.10	1.21E-04	5.25
1950	4.30E-05	5.05	3.69E-05	5.13	6.380E-05	5.10	8.78E-05	5.05	1.98E-04	5.15
1951	6.14E-05	5.00	5.32E-05	5.10	9.170E-05	5.06	1.25E-04	5.00	2.85E-04	5.15
1952	7.49E-05	5.16	7.83E-05	5.24	1.390E-04	5.30	1.54E-04	5.16	3.33E-04	5.07
1953	8.71E-05	5.51	9.79E-05	5.52	1.740E-04	5.61	1.79E-04	5.53	3.78E-04	5.31
1954	1.13E-04	5.38	1.24E-04	5.41	2.210E-04	5.49	2.32E-04	5.39	5.20E-04	5.17
1955	1.37E-04	5.46	1.51E-04	5.49	2.670E-04	5.58	2.80E-04	5.47	6.31E-04	5.25
1956	2.28E-04	5.35	2.06E-04	5.29	3.900E-04	5.25	4.84E-04	5.38	7.38E-04	5.26
1957	3.85E-04	5.19	3.31E-04	5.13	6.320E-04	5.05	8.22E-04	5.22	1.19E-03	5.12
1958	3.74E-04	5.46	3.19E-04	5.32	6.040E-04	5.27	7.96E-04	5.51	1.16E-03	5.33
1959	4.09E-04	5.51	3.40E-04	5.35	6.410E-04	5.30	8.72E-04	5.55	1.24E-03	5.36
1960	4.40E-04	5.68	3.61E-04	5.49	6.780E-04	5.46	9.38E-04	5.73	1.33E-03	5.51
1961	5.04E-04	5.48	4.23E-04	5.35	7.980E-04	5.29	1.07E-03	5.52	1.54E-03	5.35
1962	9.92E-05	7.47	1.13E-04	7.48	2.000E-04	7.57	2.05E-04	7.48	3.71E-04	7.47
1963	8.38E-05	5.97	9.36E-05	6.00	1.700E-04	6.07	1.75E-04	5.98	3.08E-04	5.98
1964	1.09E-04	5.92	1.19E-04	5.96	2.180E-04	6.04	2.28E-04	5.92	3.94E-04	5.94
1965	1.47E-04	7.49	1.67E-04	7.48	3.050E-04	7.57	3.07E-04	7.50	5.49E-04	7.47
1966	1.22E-04	6.79	1.39E-04	6.80	2.510E-04	6.84	2.53E-04	6.78	4.55E-04	6.80
1967	4.16E-06	7.61	2.93E-06	8.48	5.500E-06	8.22	9.20E-06	7.43	1.11E-05	8.25
1968	4.68E-06	5.85	3.63E-06	5.72	6.750E-06	5.71	1.00E-05	5.91	1.37E-05	5.71
1969	3.55E-06	5.91	2.75E-06	5.77	5.120E-06	5.76	7.59E-06	5.97	1.03E-05	5.76
1970	7.06E-07	7.39	6.06E-07	7.33	1.090E-06	7.29	1.48E-06	7.45	2.21E-06	7.29
1971	1.71E-06	6.91	1.33E-06	6.74	2.480E-06	6.74	3.65E-06	6.97	5.01E-06	6.74
1972	1.11E-07	9.48	8.67E-08	9.29	1.610E-07	9.29	2.38E-07	9.55	3.26E-07	9.28
All years from 1973 through 1982 have values of 0.00										
1983	1.67E-05	1.43	8.57E-06	1.42	1.830E-05	1.43	3.80E-05	1.43	3.66E-05	1.43
1984	1.99E-04	1.43	1.02E-04	1.42	2.190E-04	1.43	4.53E-04	1.43	4.36E-04	1.43
1985	2.69E-04	1.43	1.38E-04	1.42	2.960E-04	1.43	6.12E-04	1.43	5.90E-04	1.43
1986	8.07E-05	1.43	4.15E-05	1.42	8.880E-05	1.43	1.84E-04	1.43	1.77E-04	1.43
1987	1.08E-05	1.43	5.53E-06	1.42	1.180E-05	1.43	2.45E-05	1.43	2.36E-05	1.43
1988	5.38E-06	1.43	2.76E-06	1.42	5.920E-06	1.43	1.22E-05	1.43	1.18E-05	1.43
1989	1.82E-05	1.43	2.17E-05	1.42	3.510E-05	1.43	3.63E-05	1.42	7.21E-05	1.43
1990	6.67E-06	1.43	7.94E-06	1.42	1.280E-05	1.43	1.33E-05	1.42	2.64E-05	1.43
1991	9.78E-06	1.43	1.17E-05	1.42	1.880E-05	1.43	1.95E-05	1.42	3.87E-05	1.43
1992	1.05E-05	1.43	1.24E-05	1.42	2.010E-05	1.43	2.08E-05	1.42	4.13E-05	1.43
1993	1.25E-05	1.43	1.48E-05	1.42	2.400E-05	1.43	2.48E-05	1.42	4.93E-05	1.43
1994	9.34E-06	1.43	1.11E-05	1.42	1.800E-05	1.43	1.86E-05	1.42	3.69E-05	1.43
1995	2.67E-06	1.43	3.18E-06	1.42	5.140E-06	1.43	5.31E-06	1.42	1.06E-05	1.43
1996	5.34E-06	1.43	6.36E-06	1.42	1.030E-05	1.43	1.06E-05	1.42	2.11E-05	1.43
1997	2.67E-06	1.43	3.18E-06	1.42	5.140E-06	1.43	5.31E-06	1.42	1.06E-05	1.43
1998	4.45E-06	1.43	5.30E-06	1.42	8.560E-06	1.43	8.85E-06	1.42	1.76E-05	1.43
1999	4.67E-06	1.43	5.56E-06	1.42	8.990E-06	1.43	9.30E-06	1.42	1.85E-05	1.43
2000	1.13E-05	1.43	1.35E-05	1.42	2.180E-05	1.43	2.26E-05	1.42	4.49E-05	1.43
2001	3.34E-06	1.43	3.97E-06	1.42	6.420E-06	1.43	6.64E-06	1.42	1.32E-05	1.43

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.49E-06	11.70	4.800E-06	11.80	1.05E-06	11.70	7.98E-07	11.70	7.44E-07	11.70
1945	1.88E-03	6.33	4.130E-03	6.58	1.11E-03	6.34	1.05E-03	6.31	9.97E-04	6.31
1946	3.32E-03	5.82	6.810E-03	5.90	1.91E-03	5.75	1.87E-03	5.81	1.78E-03	5.82
1947	2.51E-03	5.61	5.440E-03	5.75	1.48E-03	5.57	1.40E-03	5.59	1.33E-03	5.60
1948	5.47E-04	7.36	1.180E-03	7.52	3.23E-04	7.31	3.05E-04	7.35	2.91E-04	7.35
1949	4.66E-05	5.12	1.000E-04	5.29	3.25E-05	5.21	2.63E-05	5.11	2.48E-05	5.10
1950	7.67E-05	5.06	1.630E-04	5.18	5.30E-05	5.12	4.34E-05	5.05	4.09E-05	5.05
1951	1.10E-04	5.01	2.360E-04	5.18	7.63E-05	5.09	6.19E-05	5.00	5.83E-05	5.00
1952	1.34E-04	5.16	2.930E-04	5.11	1.21E-04	5.33	7.89E-05	5.19	7.32E-05	5.18
1953	1.56E-04	5.50	3.400E-04	5.35	1.54E-04	5.63	9.32E-05	5.55	8.60E-05	5.54
1954	2.03E-04	5.37	4.600E-04	5.22	1.94E-04	5.51	1.20E-04	5.42	1.11E-04	5.41
1955	2.46E-04	5.45	5.590E-04	5.30	2.34E-04	5.60	1.45E-04	5.50	1.34E-04	5.49
1956	4.11E-04	5.37	6.660E-04	5.28	3.36E-04	5.25	2.45E-04	5.33	2.30E-04	5.35
1957	6.98E-04	5.21	1.070E-03	5.14	5.40E-04	5.05	4.12E-04	5.16	3.90E-04	5.19
1958	6.78E-04	5.49	1.040E-03	5.34	5.14E-04	5.25	3.98E-04	5.44	3.77E-04	5.47
1959	7.43E-04	5.53	1.120E-03	5.37	5.43E-04	5.28	4.34E-04	5.48	4.12E-04	5.52
1960	8.00E-04	5.71	1.190E-03	5.52	5.73E-04	5.44	4.65E-04	5.66	4.43E-04	5.70
1961	9.15E-04	5.50	1.380E-03	5.37	6.78E-04	5.28	5.35E-04	5.46	5.08E-04	5.49
1962	1.78E-04	7.47	3.470E-04	7.47	1.78E-04	7.58	1.07E-04	7.50	9.89E-05	7.49
1963	1.50E-04	5.97	2.870E-04	5.99	1.51E-04	6.08	9.11E-05	6.00	8.42E-05	5.98
1964	1.95E-04	5.92	3.650E-04	5.94	1.94E-04	6.05	1.18E-04	5.95	1.10E-04	5.93
1965	2.64E-04	7.48	5.110E-04	7.47	2.72E-04	7.58	1.61E-04	7.51	1.48E-04	7.50
1966	2.18E-04	6.79	4.240E-04	6.80	2.24E-04	6.84	1.32E-04	6.80	1.22E-04	6.79
1967	7.65E-06	7.58	9.830E-06	8.39	4.56E-06	8.33	4.37E-06	7.59	4.26E-06	7.50
1968	8.54E-06	5.88	1.220E-05	5.72	5.63E-06	5.71	4.91E-06	5.85	4.71E-06	5.87
1969	6.47E-06	5.93	9.230E-06	5.77	4.26E-06	5.76	3.72E-06	5.91	3.57E-06	5.93
1970	1.28E-06	7.41	2.000E-06	7.32	9.22E-07	7.29	7.39E-07	7.38	7.01E-07	7.41
1971	3.12E-06	6.93	4.470E-06	6.75	2.07E-06	6.73	1.79E-06	6.90	1.72E-06	6.93
1972	2.03E-07	9.51	2.910E-07	9.30	1.34E-07	9.28	1.17E-07	9.47	1.12E-07	9.51
All years from 1973 through 1982 have values of 0.00										
1983	3.08E-05	1.45	3.080E-05	1.43	1.44E-05	1.42	1.75E-05	1.42	1.74E-05	1.42
1984	3.68E-04	1.45	3.670E-04	1.43	1.72E-04	1.42	2.09E-04	1.42	2.08E-04	1.42
1985	4.97E-04	1.45	4.960E-04	1.43	2.32E-04	1.42	2.83E-04	1.42	2.81E-04	1.42
1986	1.49E-04	1.45	1.490E-04	1.43	6.97E-05	1.42	8.49E-05	1.42	8.42E-05	1.42
1987	1.99E-05	1.45	1.980E-05	1.43	9.30E-06	1.42	1.13E-05	1.42	1.12E-05	1.42
1988	9.93E-06	1.45	9.920E-06	1.43	4.65E-06	1.42	5.66E-06	1.42	5.62E-06	1.42
1989	3.29E-05	1.44	6.820E-05	1.45	3.11E-05	1.42	1.91E-05	1.42	1.76E-05	1.41
1990	1.20E-05	1.44	2.490E-05	1.45	1.14E-05	1.42	6.97E-06	1.42	6.43E-06	1.41
1991	1.76E-05	1.44	3.660E-05	1.45	1.67E-05	1.42	1.02E-05	1.42	9.43E-06	1.41
1992	1.88E-05	1.44	3.910E-05	1.45	1.78E-05	1.42	1.09E-05	1.42	1.01E-05	1.41
1993	2.24E-05	1.44	4.660E-05	1.45	2.12E-05	1.42	1.30E-05	1.42	1.20E-05	1.41
1994	1.68E-05	1.44	3.490E-05	1.45	1.59E-05	1.42	9.76E-06	1.42	9.00E-06	1.41
1995	4.81E-06	1.44	9.980E-06	1.45	4.55E-06	1.42	2.79E-06	1.42	2.57E-06	1.41
1996	9.62E-06	1.44	2.000E-05	1.45	9.09E-06	1.42	5.58E-06	1.42	5.14E-06	1.41
1997	4.81E-06	1.44	9.980E-06	1.45	4.55E-06	1.42	2.79E-06	1.42	2.57E-06	1.41
1998	8.01E-06	1.44	1.660E-05	1.45	7.58E-06	1.42	4.65E-06	1.42	4.28E-06	1.41
1999	8.41E-06	1.44	1.750E-05	1.45	7.96E-06	1.42	4.88E-06	1.42	4.50E-06	1.41
2000	2.04E-05	1.44	4.240E-05	1.45	1.93E-05	1.42	1.19E-05	1.42	1.09E-05	1.41
2001	6.01E-06	1.44	1.250E-05	1.45	5.68E-06	1.42	3.49E-06	1.42	3.21E-06	1.41

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	8.980E-07	11.70	4.31E-07	11.70	1.09E-06	11.70	2.30E-06	11.70	1.030E-06	11.70
1945	1.130E-03	6.31	4.63E-04	6.32	1.44E-03	6.31	2.71E-03	6.31	1.470E-03	6.33
1946	1.990E-03	5.79	7.98E-04	5.74	2.58E-03	5.81	4.74E-03	5.78	2.670E-03	5.86
1947	1.500E-03	5.58	6.16E-04	5.56	1.93E-03	5.60	3.62E-03	5.58	1.980E-03	5.63
1948	3.280E-04	7.33	1.34E-04	7.30	4.21E-04	7.35	7.89E-04	7.32	4.310E-04	7.40
1949	2.900E-05	5.11	1.33E-05	5.19	3.58E-05	5.10	7.14E-05	5.12	3.540E-05	5.11
1950	4.760E-05	5.05	2.17E-05	5.10	5.89E-05	5.05	1.17E-04	5.05	5.840E-05	5.07
1951	6.810E-05	5.00	3.12E-05	5.07	8.41E-05	5.00	1.68E-04	5.01	8.320E-05	5.01
1952	9.020E-05	5.22	4.75E-05	5.29	1.04E-04	5.17	2.28E-04	5.22	9.980E-05	5.15
1953	1.080E-04	5.57	5.98E-05	5.59	1.21E-04	5.52	2.76E-04	5.55	1.150E-04	5.52
1954	1.390E-04	5.44	7.56E-05	5.48	1.57E-04	5.39	3.54E-04	5.42	1.480E-04	5.39
1955	1.670E-04	5.52	9.14E-05	5.56	1.89E-04	5.47	4.27E-04	5.51	1.790E-04	5.47
1956	2.750E-04	5.30	1.32E-04	5.25	3.24E-04	5.36	6.69E-04	5.27	3.200E-04	5.43
1957	4.590E-04	5.13	2.13E-04	5.06	5.49E-04	5.20	1.11E-03	5.10	5.490E-04	5.26
1958	4.420E-04	5.39	2.04E-04	5.27	5.32E-04	5.47	1.06E-03	5.35	5.330E-04	5.55
1959	4.780E-04	5.44	2.17E-04	5.30	5.82E-04	5.52	1.14E-03	5.39	5.870E-04	5.60
1960	5.110E-04	5.62	2.29E-04	5.46	6.26E-04	5.70	1.22E-03	5.57	6.340E-04	5.78
1961	5.920E-04	5.41	2.70E-04	5.29	7.17E-04	5.49	1.42E-03	5.37	7.220E-04	5.57
1962	1.240E-04	7.53	6.90E-05	7.55	1.39E-04	7.48	3.15E-04	7.52	1.320E-04	7.47
1963	1.050E-04	6.02	5.83E-05	6.05	1.18E-04	5.97	2.67E-04	6.02	1.130E-04	5.96
1964	1.370E-04	5.97	7.46E-05	6.02	1.54E-04	5.92	3.44E-04	5.98	1.480E-04	5.91
1965	1.870E-04	7.53	1.05E-04	7.54	2.08E-04	7.49	4.74E-04	7.52	1.970E-04	7.48
1966	1.540E-04	6.81	8.62E-05	6.82	1.71E-04	6.78	3.91E-04	6.80	1.620E-04	6.78
1967	4.650E-06	7.71	1.85E-06	8.29	6.00E-06	7.53	1.07E-05	7.88	6.390E-06	7.33
1968	5.330E-06	5.82	2.29E-06	5.70	6.67E-06	5.87	1.26E-05	5.78	6.820E-06	5.94
1969	4.040E-06	5.87	1.73E-06	5.75	5.06E-06	5.93	9.53E-06	5.84	5.170E-06	6.00
1970	8.150E-07	7.35	3.73E-07	7.29	9.97E-07	7.41	1.96E-06	7.32	9.940E-07	7.49
1971	1.950E-06	6.86	8.39E-07	6.73	2.43E-06	6.92	4.60E-06	6.82	2.490E-06	7.00
1972	1.270E-07	9.43	5.46E-08	9.27	1.59E-07	9.50	3.00E-07	9.38	1.620E-07	9.59
All years from 1973 through 1982 have values of 0.00										
1983	1.820E-05	1.43	5.97E-06	1.41	2.44E-05	1.42	3.97E-05	1.46	2.690E-05	1.42
1984	2.170E-04	1.43	7.12E-05	1.41	2.92E-04	1.42	4.73E-04	1.46	3.220E-04	1.42
1985	2.930E-04	1.43	9.62E-05	1.41	3.94E-04	1.42	6.40E-04	1.46	4.350E-04	1.42
1986	8.790E-05	1.43	2.89E-05	1.41	1.18E-04	1.42	1.92E-04	1.46	1.300E-04	1.42
1987	1.170E-05	1.43	3.85E-06	1.41	1.58E-05	1.42	2.56E-05	1.46	1.740E-05	1.42
1988	5.860E-06	1.43	1.92E-06	1.41	7.89E-06	1.42	1.28E-05	1.46	8.690E-06	1.42
1989	2.190E-05	1.43	1.24E-05	1.42	2.51E-05	1.43	5.63E-05	1.42	2.350E-05	1.42
1990	8.010E-06	1.43	4.53E-06	1.42	9.20E-06	1.43	2.06E-05	1.42	8.590E-06	1.42
1991	1.170E-05	1.43	6.64E-06	1.42	1.35E-05	1.43	3.02E-05	1.42	1.260E-05	1.42
1992	1.260E-05	1.43	7.09E-06	1.42	1.44E-05	1.43	3.23E-05	1.42	1.350E-05	1.42
1993	1.500E-05	1.43	8.45E-06	1.42	1.72E-05	1.43	3.84E-05	1.42	1.600E-05	1.42
1994	1.120E-05	1.43	6.34E-06	1.42	1.29E-05	1.43	2.88E-05	1.42	1.200E-05	1.42
1995	3.200E-06	1.43	1.81E-06	1.42	3.68E-06	1.43	8.24E-06	1.42	3.430E-06	1.42
1996	6.410E-06	1.43	3.62E-06	1.42	7.36E-06	1.43	1.65E-05	1.42	6.870E-06	1.42
1997	3.200E-06	1.43	1.81E-06	1.42	3.68E-06	1.43	8.24E-06	1.42	3.430E-06	1.42
1998	5.340E-06	1.43	3.02E-06	1.42	6.13E-06	1.43	1.37E-05	1.42	5.720E-06	1.42
1999	5.610E-06	1.43	3.17E-06	1.42	6.44E-06	1.43	1.44E-05	1.42	6.010E-06	1.42
2000	1.360E-05	1.43	7.70E-06	1.42	1.56E-05	1.43	3.50E-05	1.42	1.460E-05	1.42
2001	4.010E-06	1.43	2.26E-06	1.42	4.60E-06	1.43	1.03E-05	1.42	4.290E-06	1.42

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1944	1.23E-06	11.70	1.79E-06	11.70	1.28E-06	11.70	1.750E-06	11.70	2.68E-06	11.70
1945	1.50E-03	6.30	1.54E-03	6.50	1.15E-03	6.48	1.770E-03	6.36	5.80E-03	6.67
1946	2.64E-03	5.78	2.54E-03	5.83	1.92E-03	5.82	3.020E-03	5.75	1.16E-02	6.16
1947	2.00E-03	5.57	2.03E-03	5.68	1.52E-03	5.67	2.350E-03	5.58	8.01E-03	5.97
1948	4.36E-04	7.32	4.42E-04	7.43	3.32E-04	7.42	5.130E-04	7.32	1.74E-03	7.80
1949	3.92E-05	5.11	4.76E-05	5.31	3.94E-05	5.43	5.360E-05	5.26	1.12E-04	5.53
1950	6.44E-05	5.04	7.69E-05	5.22	6.36E-05	5.34	8.730E-05	5.17	1.88E-04	5.53
1951	9.22E-05	5.00	1.12E-04	5.18	9.25E-05	5.30	1.260E-04	5.13	2.63E-04	5.43
1952	1.24E-04	5.22	1.60E-04	5.23	1.61E-04	5.36	2.180E-04	5.42	2.35E-04	5.19
1953	1.50E-04	5.55	1.99E-04	5.46	2.12E-04	5.59	2.850E-04	5.71	2.39E-04	5.44
1954	1.92E-04	5.43	2.55E-04	5.36	2.63E-04	5.50	3.570E-04	5.60	3.16E-04	5.29
1955	2.32E-04	5.51	3.11E-04	5.45	3.19E-04	5.59	4.290E-04	5.68	3.83E-04	5.38
1956	3.70E-04	5.27	3.88E-04	5.41	4.00E-04	5.42	5.870E-04	5.30	1.46E-03	6.61
1957	6.14E-04	5.10	6.16E-04	5.30	6.21E-04	5.28	9.330E-04	5.06	2.96E-03	6.23
1958	5.91E-04	5.35	5.99E-04	5.47	5.89E-04	5.46	8.800E-04	5.24	3.09E-03	6.49
1959	6.37E-04	5.40	6.40E-04	5.49	6.15E-04	5.49	9.190E-04	5.26	3.69E-03	6.44
1960	6.80E-04	5.57	6.83E-04	5.62	6.46E-04	5.63	9.590E-04	5.42	4.17E-03	6.58
1961	7.89E-04	5.37	7.97E-04	5.50	7.72E-04	5.50	1.150E-03	5.26	4.36E-03	6.45
1962	1.72E-04	7.51	2.27E-04	7.45	2.50E-04	7.52	3.290E-04	7.67	3.29E-04	7.06
1963	1.46E-04	6.01	1.84E-04	5.98	2.07E-04	6.04	2.820E-04	6.15	2.99E-04	5.56
1964	1.88E-04	5.97	2.32E-04	5.93	2.61E-04	6.01	3.630E-04	6.13	3.67E-04	6.06
1965	2.59E-04	7.52	3.29E-04	7.44	3.73E-04	7.51	5.120E-04	7.65	4.55E-04	7.18
1966	2.13E-04	6.80	2.74E-04	6.82	3.09E-04	6.82	4.190E-04	6.89	3.69E-04	6.55
1967	6.03E-06	7.82	5.71E-06	8.77	5.24E-06	8.92	7.330E-06	8.50	5.45E-05	6.58
1968	7.04E-06	5.78	6.96E-06	5.82	6.23E-06	5.91	9.080E-06	5.73	4.95E-05	6.60
1969	5.33E-06	5.83	5.27E-06	5.86	4.71E-06	5.95	6.880E-06	5.77	3.78E-05	6.66
1970	1.09E-06	7.31	1.21E-06	7.45	1.11E-06	7.53	1.520E-06	7.33	5.60E-06	8.59
1971	2.58E-06	6.82	2.56E-06	6.85	2.29E-06	6.94	3.340E-06	6.75	1.80E-05	7.74
1972	1.68E-07	9.38	1.66E-07	9.42	1.49E-07	9.54	2.170E-07	9.30	1.17E-06	10.50
All years from 1973 through 1982 have values of 0.00										
1983	2.27E-05	1.43	1.40E-05	1.41	1.12E-05	1.44	2.130E-05	1.42	3.13E-04	1.42
1984	2.71E-04	1.43	1.67E-04	1.41	1.33E-04	1.44	2.550E-04	1.42	3.74E-03	1.42
1985	3.67E-04	1.43	2.25E-04	1.41	1.80E-04	1.44	3.440E-04	1.42	5.05E-03	1.42
1986	1.10E-04	1.43	6.76E-05	1.41	5.41E-05	1.44	1.030E-04	1.42	1.52E-03	1.42
1987	1.47E-05	1.43	9.02E-06	1.41	7.22E-06	1.44	1.380E-05	1.42	2.02E-04	1.42
1988	7.34E-06	1.43	4.51E-06	1.41	3.61E-06	1.44	6.880E-06	1.42	1.01E-04	1.42
1989	3.07E-05	1.41	4.88E-05	1.44	4.82E-05	1.44	5.470E-05	1.42	4.86E-05	1.42
1990	1.12E-05	1.41	1.79E-05	1.44	1.76E-05	1.44	2.000E-05	1.42	1.78E-05	1.42
1991	1.65E-05	1.41	2.62E-05	1.44	2.59E-05	1.44	2.930E-05	1.42	2.61E-05	1.42
1992	1.76E-05	1.41	2.80E-05	1.44	2.76E-05	1.44	3.130E-05	1.42	2.79E-05	1.42
1993	2.09E-05	1.41	3.33E-05	1.44	3.29E-05	1.44	3.730E-05	1.42	3.32E-05	1.42
1994	1.57E-05	1.41	2.50E-05	1.44	2.47E-05	1.44	2.800E-05	1.42	2.49E-05	1.42
1995	4.49E-06	1.41	7.15E-06	1.44	7.05E-06	1.44	8.000E-06	1.42	7.11E-06	1.42
1996	8.98E-06	1.41	1.43E-05	1.44	1.41E-05	1.44	1.600E-05	1.42	1.42E-05	1.42
1997	4.49E-06	1.41	7.15E-06	1.44	7.05E-06	1.44	8.000E-06	1.42	7.11E-06	1.42
1998	7.48E-06	1.41	1.19E-05	1.44	1.18E-05	1.44	1.330E-05	1.42	1.19E-05	1.42
1999	7.85E-06	1.41	1.25E-05	1.44	1.23E-05	1.44	1.400E-05	1.42	1.24E-05	1.42
2000	1.91E-05	1.41	3.04E-05	1.44	3.00E-05	1.44	3.400E-05	1.42	3.02E-05	1.42
2001	5.61E-06	1.41	8.93E-06	1.44	8.81E-06	1.44	1.000E-05	1.42	8.89E-06	1.42

Table A-20. Nuclide Pu239, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1944	1.32E-06	11.70	2.77E-06	11.70	9.750E-06	12.00				
1945	1.21E-03	6.46	5.23E-03	6.56	5.770E-03	7.25				
1946	2.03E-03	5.80	1.01E-02	6.08	8.160E-03	6.64				
1947	1.60E-03	5.65	7.14E-03	5.88	7.260E-03	6.40				
1948	3.49E-04	7.40	1.55E-03	7.69	1.570E-03	8.27				
1949	4.31E-05	5.51	1.07E-04	5.38	1.520E-04	5.70				
1950	6.96E-05	5.42	1.78E-04	5.37	2.410E-04	5.61				
1951	1.01E-04	5.38	2.51E-04	5.28	3.560E-04	5.59				
1952	1.82E-04	5.39	2.41E-04	5.13	4.490E-04	5.25				
1953	2.42E-04	5.59	2.51E-04	5.44	5.400E-04	5.27				
1954	2.98E-04	5.52	3.30E-04	5.30	7.400E-04	5.22				
1955	3.62E-04	5.61	4.00E-04	5.38	9.090E-04	5.29				
1956	4.53E-04	5.45	1.13E-03	6.35	8.200E-04	5.58				
1957	7.01E-04	5.33	2.21E-03	6.04	1.270E-03	5.52				
1958	6.66E-04	5.51	2.28E-03	6.32	1.250E-03	5.69				
1959	6.94E-04	5.54	2.67E-03	6.29	1.330E-03	5.70				
1960	7.29E-04	5.68	2.99E-03	6.44	1.420E-03	5.82				
1961	8.72E-04	5.56	3.18E-03	6.29	1.660E-03	5.72				
1962	2.89E-04	7.50	3.15E-04	7.22	5.150E-04	7.47				
1963	2.39E-04	6.03	2.80E-04	5.69	4.080E-04	6.01				
1964	3.00E-04	6.00	3.65E-04	5.85	5.070E-04	5.94				
1965	4.30E-04	7.49	4.47E-04	7.30	7.250E-04	7.45				
1966	3.56E-04	6.82	3.66E-04	6.65	6.080E-04	6.90				
1967	5.99E-06	8.99	3.90E-05	6.58	1.260E-05	9.05				
1968	7.05E-06	5.96	3.49E-05	6.49	1.470E-05	6.01				
1969	5.34E-06	6.00	2.66E-05	6.55	1.110E-05	6.05				
1970	1.28E-06	7.59	4.18E-06	8.36	2.700E-06	7.62				
1971	2.59E-06	7.00	1.27E-05	7.61	5.390E-06	7.05				
1972	1.68E-07	9.61	8.27E-07	10.30	3.490E-07	9.67				
All years from 1973 through 1982 have values of 0.00										
1983	1.21E-05	1.43	2.04E-04	1.44	2.350E-05	1.44				
1984	1.44E-04	1.43	2.43E-03	1.44	2.810E-04	1.44				
1985	1.95E-04	1.43	3.29E-03	1.44	3.800E-04	1.44				
1986	5.85E-05	1.43	9.87E-04	1.44	1.140E-04	1.44				
1987	7.81E-06	1.43	1.32E-04	1.44	1.520E-05	1.44				
1988	3.90E-06	1.43	6.58E-05	1.44	7.600E-06	1.44				
1989	5.68E-05	1.46	5.17E-05	1.43	1.240E-04	1.45				
1990	2.08E-05	1.46	1.89E-05	1.43	4.530E-05	1.45				
1991	3.05E-05	1.46	2.77E-05	1.43	6.640E-05	1.45				
1992	3.25E-05	1.46	2.96E-05	1.43	7.090E-05	1.45				
1993	3.88E-05	1.46	3.53E-05	1.43	8.450E-05	1.45				
1994	2.91E-05	1.46	2.65E-05	1.43	6.340E-05	1.45				
1995	8.31E-06	1.46	7.57E-06	1.43	1.810E-05	1.45				
1996	1.66E-05	1.46	1.51E-05	1.43	3.620E-05	1.45				
1997	8.31E-06	1.46	7.57E-06	1.43	1.810E-05	1.45				
1998	1.38E-05	1.46	1.26E-05	1.43	3.020E-05	1.45				
1999	1.45E-05	1.46	1.32E-05	1.43	3.170E-05	1.45				
2000	3.53E-05	1.46	3.22E-05	1.43	7.700E-05	1.45				
2001	1.04E-05	1.46	9.46E-06	1.43	2.260E-05	1.45				

Table A-21. Nuclide H-3 from 108-B. Bq/yr.

	T Plant		B Plant		REDOX		PUREX		Z Plant	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	2.56E+01	1.69	2.930E+01	1.73	2.11E+01	1.69	2.84E+01	1.73	2.35E+01	1.69
1950	2.30E+02	1.69	2.630E+02	1.73	1.90E+02	1.69	2.55E+02	1.73	2.11E+02	1.69
1951	1.01E+03	1.69	1.160E+03	1.73	8.37E+02	1.69	1.13E+03	1.73	9.30E+02	1.69
1952	1.49E+03	1.69	1.700E+03	1.73	1.23E+03	1.69	1.65E+03	1.73	1.37E+03	1.69
1953	1.47E+02	1.69	1.680E+02	1.73	1.21E+02	1.69	1.63E+02	1.73	1.34E+02	1.69
1954	4.60E+03	1.69	5.260E+03	1.73	3.80E+03	1.69	5.11E+03	1.73	4.22E+03	1.69

	B & C Reactors		KW & KE Reactors		N Reactor		D & DR Reactors		H Reactor	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	6.390E+02	1.68	5.27E+01	1.67	3.62E+01	1.68	2.93E+01	1.68	2.750E+01	1.67
1950	5.740E+03	1.68	4.73E+02	1.67	3.25E+02	1.68	2.63E+02	1.68	2.470E+02	1.67
1951	2.530E+04	1.68	2.09E+03	1.67	1.43E+03	1.68	1.16E+03	1.68	1.090E+03	1.67
1952	3.720E+04	1.68	3.07E+03	1.67	2.10E+03	1.68	1.70E+03	1.68	1.600E+03	1.67
1953	3.660E+03	1.68	3.02E+02	1.67	2.07E+02	1.68	1.68E+02	1.68	1.570E+02	1.67
1954	1.150E+05	1.68	9.47E+03	1.67	6.50E+03	1.68	5.26E+03	1.68	4.930E+03	1.67

	F Reactor		200 N		Midway (Riverland)		West Waluke		North Waluke	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	3.30E+01	1.69	5.86E+01	1.74	2.97E+01	1.67	2.660E+01	1.67	1.93E+01	1.68
1950	2.96E+02	1.69	5.27E+02	1.74	2.66E+02	1.67	2.390E+02	1.67	1.74E+02	1.68
1951	1.31E+03	1.69	2.32E+03	1.74	1.18E+03	1.67	1.050E+03	1.67	7.66E+02	1.68
1952	1.92E+03	1.69	3.41E+03	1.74	1.73E+03	1.67	1.550E+03	1.67	1.12E+03	1.68
1953	1.89E+02	1.69	3.36E+02	1.74	1.70E+02	1.67	1.520E+02	1.67	1.11E+02	1.68
1954	5.93E+03	1.69	1.05E+04	1.74	5.33E+03	1.67	4.780E+03	1.67	3.47E+03	1.68

	East Waluke		Yakima Barricade		Prosser Barricade		Wye Barricade		200 Firestation	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	2.26E+01	1.70	1.64E+01	1.68	1.240E+01	1.70	2.21E+01	1.70	2.40E+01	1.69
1950	2.03E+02	1.70	1.47E+02	1.68	1.110E+02	1.70	1.98E+02	1.70	2.15E+02	1.69
1951	8.94E+02	1.70	6.50E+02	1.68	4.920E+02	1.70	8.74E+02	1.70	9.51E+02	1.69
1952	1.31E+03	1.70	9.55E+02	1.68	7.220E+02	1.70	1.28E+03	1.70	1.40E+03	1.69
1953	1.29E+02	1.70	9.40E+01	1.68	7.110E+01	1.70	1.26E+02	1.70	1.37E+02	1.69
1954	4.06E+03	1.70	2.95E+03	1.68	2.230E+03	1.70	3.96E+03	1.70	4.31E+03	1.69

	100 Firestation		HMS Tower (622)		Columbia Camp		North Richland		300 Area	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	4.48E+01	1.68	2.580E+01	1.69	1.01E+01	1.69	1.35E+01	1.68	1.39E+01	1.68
1950	4.03E+02	1.68	2.320E+02	1.69	9.04E+01	1.69	1.21E+02	1.68	1.24E+02	1.68
1951	1.78E+03	1.68	1.020E+03	1.69	3.99E+02	1.69	5.34E+02	1.68	5.49E+02	1.68
1952	2.61E+03	1.68	1.500E+03	1.69	5.85E+02	1.69	7.84E+02	1.68	8.06E+02	1.68
1953	2.57E+02	1.68	1.480E+02	1.69	5.76E+01	1.69	7.72E+01	1.68	7.93E+01	1.68
1954	8.06E+03	1.68	4.640E+03	1.69	1.81E+03	1.69	2.42E+03	1.68	2.49E+03	1.68

	1100 Area		EOC/ALE Hq		Hanford Townsite		Waste Disposal Site		WNP2 Region	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	1.280E+01	1.70	5.23E+00	1.67	2.45E+01	1.68	2.07E+01	1.72	2.420E+01	1.66
1950	1.150E+02	1.70	4.69E+01	1.67	2.20E+02	1.68	1.86E+02	1.72	2.170E+02	1.66
1951	5.080E+02	1.70	2.07E+02	1.67	9.72E+02	1.68	8.21E+02	1.72	9.580E+02	1.66
1952	7.450E+02	1.70	3.04E+02	1.67	1.43E+03	1.68	1.21E+03	1.72	1.410E+03	1.66
1953	7.340E+01	1.70	2.99E+01	1.67	1.40E+02	1.68	1.19E+02	1.72	1.390E+02	1.66
1954	2.300E+03	1.70	9.39E+02	1.67	4.41E+03	1.68	3.72E+03	1.72	4.350E+03	1.66

	FFTF Region		Army H-61		Army H-51		Army H-42		Army H-40	
Date	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD
1949	1.61E+01	1.70	2.73E+01	1.67	1.52E+01	1.67	1.460E+01	1.68	2.49E+01	1.71
1950	1.45E+02	1.70	2.45E+02	1.67	1.37E+02	1.67	1.310E+02	1.68	2.24E+02	1.72
1951	6.38E+02	1.70	1.08E+03	1.67	6.03E+02	1.67	5.790E+02	1.68	9.88E+02	1.72
1952	9.37E+02	1.70	1.59E+03	1.67	8.86E+02	1.67	8.500E+02	1.68	1.45E+03	1.72
1953	9.22E+01	1.70	1.56E+02	1.67	8.72E+01	1.67	8.370E+01	1.68	1.43E+02	1.71
1954	2.89E+03	1.70	4.90E+03	1.67	2.74E+03	1.67	2.630E+03	1.68	4.48E+03	1.72

Table A-21. Nuclide H-3 from 108-B, Bq/yr (Continued).

Date	Army H-50		200E Guard House		200W Guard House					
	GM Intake	GSD	GM Intake	GSD	GM Intake	GSD				
1949	1.78E+01	1.68	2.38E+01	1.73	2.560E+01	1.69				
1950	1.60E+02	1.68	2.14E+02	1.73	2.300E+02	1.69				
1951	7.07E+02	1.68	9.45E+02	1.73	1.010E+03	1.69				
1952	1.04E+03	1.68	1.39E+03	1.73	1.490E+03	1.69				
1953	1.02E+02	1.68	1.37E+02	1.73	1.470E+02	1.69				
1954	3.21E+03	1.68	4.28E+03	1.73	4.600E+03	1.69				