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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Particulate.	Unknown.	T .00096710000000	CI	1960	1960	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00010210000000	CI	1960	1960	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .10570000000000	CI	1960	1960	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00048360000000	CI	1960	1960	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00048360000000	CI	1960	1960	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00044770000000	CI	1960	1960	N			See continuation page.
H-3	Particulate.	Unknown.	T 25.090000000000	CI	1961	1961	N			See continuation page.
C-14	Particulate.	Unknown.	T 3.3660000000000	CI	1961	1961	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 581.40000000000	CI	1961	1961	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-59	Particulate.	Unknown.	T .17440000000000	CI	1961	1961	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 97.920000000000	CI	1961	1961	N			See continuation page.
Co-60	Particulate.	Unknown.	T 205.00000000000	CI	1961	1961	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .28150000000000	CI	1961	1961	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .05508000000000	CI	1961	1961	N			See continuation page.
I-129	Particulate.	Unknown.	T .00001431900000	CI	1961	1961	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 61.200000000000	CI	1961	1961	N			See continuation page.
Ce-144	Particulate.	Unknown.	T 1.4380000000000	CI	1961	1961	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00088740000000	CI	1961	1961	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-155	Particulate.	Unknown.	T 2.8760000000000	CI	1961	1961	N			See continuation page.
U-234	Particulate.	Unknown.	T .00064260000000	CI	1961	1961	N			See continuation page.
U-235	Particulate.	Unknown.	T .00001377000000	CI	1961	1961	N			See continuation page.
U-236	Particulate.	Unknown.	T .00024480000000	CI	1961	1961	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00039780000000	CI	1961	1961	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .01652000000000	CI	1961	1961	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .01652000000000	CI	1961	1961	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00174400000000	CI	1961	1961	N			See continuation page.
Pu-241	Particulate.	Unknown.	T 1.8050000000000	CI	1961	1961	N			See continuation page.

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Am-241	Particulate.	Unknown.	T .00826200000000	CI	1961	1961	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00826200000000	CI	1961	1961	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00765000000000	CI	1961	1961	N			See continuation page.
H-3	Particulate.	Unknown.	T .97420000000000	CI	1962	1962	N			See continuation page.
C-14	Particulate.	Unknown.	T .13070000000000	CI	1962	1962	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 22.570000000000	CI	1962	1962	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00677200000000	CI	1962	1962	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 3.8020000000000	CI	1962	1962	N			See continuation page.
Co-60	Particulate.	Unknown.	T 7.9600000000000	CI	1962	1962	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Particulate.	Unknown.	T .01093000000000	CI	1962	1962	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00213800000000	CI	1962	1962	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000055602000	CI	1962	1962	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 2.3760000000000	CI	1962	1962	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .05584000000000	CI	1962	1962	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00003445000000	CI	1962	1962	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .11170000000000	CI	1962	1962	N			See continuation page.
U-234	Particulate.	Unknown.	T .00002495000000	CI	1962	1962	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000053460000	CI	1962	1962	N			See continuation page.

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U-236	Particulate.	Unknown.	T .00000950400000	CI	1962	1962	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00001544000000	CI	1962	1962	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00064150000000	CI	1962	1962	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00064150000000	CI	1962	1962	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00006772000000	CI	1962	1962	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .07009000000000	CI	1962	1962	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00032080000000	CI	1962	1962	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00032080000000	CI	1962	1962	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00029700000000	CI	1962	1962	N			See continuation page.

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H-3	Particulate.	Unknown.	T 1.1750000000000	CI	1963	1963	N			See continuation page.
C-14	Particulate.	Unknown.	T .15770000000000	CI	1963	1963	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 27.230000000000	CI	1963	1963	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00817000000000	CI	1963	1963	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 4.5860000000000	CI	1963	1963	N			See continuation page.
Co-60	Particulate.	Unknown.	T 9.6030000000000	CI	1963	1963	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .01319000000000	CI	1963	1963	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00258000000000	CI	1963	1963	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000067077000	CI	1963	1963	N			See continuation page.

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Cs-137	Particulate.	Unknown.	T 2.8670000000000	CI	1963	1963	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .06736000000000	CI	1963	1963	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00004156000000	CI	1963	1963	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .13470000000000	CI	1963	1963	N			See continuation page.
U-234	Particulate.	Unknown.	T .00003010000000	CI	1963	1963	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000064500000	CI	1963	1963	N			See continuation page.
U-236	Particulate.	Unknown.	T .00001147000000	CI	1963	1963	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00001863000000	CI	1963	1963	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00077400000000	CI	1963	1963	N			See continuation page.

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Pu-239	Particulate.	Unknown.	T .00077400000000	CI	1963	1963	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00008170000000	CI	1963	1963	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .08456000000000	CI	1963	1963	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00038700000000	CI	1963	1963	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00038700000000	CI	1963	1963	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00035830000000	CI	1963	1963	N			See continuation page.
H-3	Particulate.	Unknown.	T .83870000000000	CI	1964	1964	N			See continuation page.
C-14	Particulate.	Unknown.	T .11250000000000	CI	1964	1964	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 19.430000000000	CI	1964	1964	N			See continuation page.

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Ni-59	Particulate.	Unknown.	T .00583000000000	CI	1964	1964	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 3.2730000000000	CI	1964	1964	N			See continuation page.
Co-60	Particulate.	Unknown.	T 6.8520000000000	CI	1964	1964	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00940900000000	CI	1964	1964	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00184100000000	CI	1964	1964	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000047862000	CI	1964	1964	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 2.0460000000000	CI	1964	1964	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .04807000000000	CI	1964	1964	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00002966000000	CI	1964	1964	N			See continuation page.

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Eu-155	Particulate.	Unknown.	T .09614000000000	CI	1964	1964	N			See continuation page.
U-234	Particulate.	Unknown.	T .00002148000000	CI	1964	1964	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000046020000	CI	1964	1964	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000818200000	CI	1964	1964	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .06034000000000	CI	1964	1964	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000244000000	CI	1964	1964	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00948600000000	CI	1964	1964	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00004080000000	CI	1964	1964	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00002448000000	CI	1964	1964	N			See continuation page.

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Pu-242	Particulate.	Unknown.	T .00000025500000	CI	1964	1964	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00002856000000	CI	1964	1964	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00016320000000	CI	1964	1964	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00044880000000	CI	1964	1964	N			See continuation page.
Ta-182	Particulate.	Unknown.	T .50000000000000	CI	1964	1964	N	-20%	+20%	See comment below.
U-235	Particulate.	Unknown.	T .50000000000000	CI	1964	1964	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T 60.960000000000	CI	1965	1965	N			See continuation page.
C-14	Particulate.	Unknown.	T 8.1770000000000	CI	1965	1965	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 1412.0000000000	CI	1965	1965	N			See continuation page.

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Ni-59	Particulate.	Unknown.	T .42370000000000	CI	1965	1965	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 237.90000000000	CI	1965	1965	N			See continuation page.
Co-60	Particulate.	Unknown.	T 49800.000000000	CI	1965	1965	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .68390000000000	CI	1965	1965	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .13380000000000	CI	1965	1965	N			See continuation page.
I-129	Particulate.	Unknown.	T .03478500000000	CI	1965	1965	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 148.70000000000	CI	1965	1965	N			See continuation page.
Ce-144	Particulate.	Unknown.	T 3.4940000000000	CI	1965	1965	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00215600000000	CI	1965	1965	N			See continuation page.

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Eu-155	Particulate.	Unknown.	T 6.9880000000000	CI	1965	1965	N			See continuation page.
U-234	Particulate.	Unknown.	T .00156100000000	CI	1965	1965	N			See continuation page.
U-235	Particulate.	Unknown.	T .00003345000000	CI	1965	1965	N			See continuation page.
U-236	Particulate.	Unknown.	T .00059700000000	CI	1965	1965	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00096640000000	CI	1965	1965	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .04014000000000	CI	1965	1965	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .04014000000000	CI	1965	1965	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00423700000000	CI	1965	1965	N			See continuation page.
Pu-241	Particulate.	Unknown.	T 4.3860000000000	CI	1965	1965	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Am-241	Particulate.	Unknown.	T .02007000000000	CI	1965	1965	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .02007000000000	CI	1965	1965	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .01858000000000	CI	1965	1965	N			See continuation page.
H-3	Particulate.	Unknown.	T .78050000000000	CI	1966	1966	N			See continuation page.
C-14	Particulate.	Unknown.	T .10470000000000	CI	1966	1966	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 18.080000000000	CI	1966	1966	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00542500000000	CI	1966	1966	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 3.0460000000000	CI	1966	1966	N			See continuation page.
Co-60	Particulate.	Unknown.	T 6.3770000000000	CI	1966	1966	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Particulate.	Unknown.	T .00875700000000	CI	1966	1966	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00171300000000	CI	1966	1966	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000044550000	CI	1966	1966	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 1.9040000000000	CI	1966	1966	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .04474000000000	CI	1966	1966	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00002760000000	CI	1966	1966	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .08947000000000	CI	1966	1966	N			See continuation page.
U-234	Particulate.	Unknown.	T .00001999000000	CI	1966	1966	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000042830000	CI	1966	1966	N			See continuation page.

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U-236	Particulate.	Unknown.	T .00000761500000	CI	1966	1966	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00001237000000	CI	1966	1966	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00051400000000	CI	1966	1966	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00051400000000	CI	1966	1966	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00005425000000	CI	1966	1966	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .05616000000000	CI	1966	1966	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00025700000000	CI	1966	1966	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00025700000000	CI	1966	1966	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00023800000000	CI	1966	1966	N			See continuation page.

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H-3	Particulate.	Unknown.	T 15.600000000000	CI	1967	1967	N			See continuation page.
C-14	Particulate.	Unknown.	T 2.0930000000000	CI	1967	1967	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 361.40000000000	CI	1967	1967	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .10840000000000	CI	1967	1967	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 60.870000000000	CI	1967	1967	N			See continuation page.
Co-60	Particulate.	Unknown.	T 127.50000000000	CI	1967	1967	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .17500000000000	CI	1967	1967	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .03424000000000	CI	1967	1967	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000890280000	CI	1967	1967	N			See continuation page.

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Cs-137	Particulate.	Unknown.	T 38.050000000000	CI	1967	1967	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .89410000000000	CI	1967	1967	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00055170000000	CI	1967	1967	N			See continuation page.
Eu-155	Particulate.	Unknown.	T 1.7880000000000	CI	1967	1967	N			See continuation page.
U-234	Particulate.	Unknown.	T .00039950000000	CI	1967	1967	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000856000000	CI	1967	1967	N			See continuation page.
U-236	Particulate.	Unknown.	T .00015220000000	CI	1967	1967	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00024730000000	CI	1967	1967	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .01027000000000	CI	1967	1967	N			See continuation page.

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Pu-239	Particulate.	Unknown.	T .01027000000000	CI	1967	1967	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00108400000000	CI	1967	1967	N			See continuation page.
Pu-241	Particulate.	Unknown.	T 1.1220000000000	CI	1967	1967	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00513600000000	CI	1967	1967	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00513600000000	CI	1967	1967	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00475600000000	CI	1967	1967	N			See continuation page.
H-3	Particulate.	Unknown.	T .33070000000000	CI	1968	1968	N			See continuation page.
C-14	Particulate.	Unknown.	T .04437000000000	CI	1968	1968	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 7.6640000000000	CI	1968	1968	N			See continuation page.

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Ni-59	Particulate.	Unknown.	T .00229900000000	CI	1968	1968	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 1.2910000000000	CI	1968	1968	N			See continuation page.
Co-60	Particulate.	Unknown.	T 2.7020000000000	CI	1968	1968	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00371100000000	CI	1968	1968	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00072600000000	CI	1968	1968	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000018873000	CI	1968	1968	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .80670000000000	CI	1968	1968	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .01896000000000	CI	1968	1968	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00001170000000	CI	1968	1968	N			See continuation page.

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Eu-155	Particulate.	Unknown.	T .03792000000000	CI	1968	1968	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000847000000	CI	1968	1968	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000018150000	CI	1968	1968	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000322700000	CI	1968	1968	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000524400000	CI	1968	1968	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00021780000000	CI	1968	1968	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00021780000000	CI	1968	1968	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00002299000000	CI	1968	1968	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .02380000000000	CI	1968	1968	N			See continuation page.

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Am-241	Particulate.	Unknown.	T .00010890000000	CI	1968	1968	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00010890000000	CI	1968	1968	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00010080000000	CI	1968	1968	N			See continuation page.
U-235	Particulate.	Unknown.	T .00001378000000	CI	1968	1968	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T 4798.0000000000	CI	1969	1969	N			See continuation page.
C-14	Particulate.	Unknown.	T 643.60000000000	CI	1969	1969	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 111200.00000000	CI	1969	1969	N			See continuation page.
Ni-59	Particulate.	Unknown.	T 33.350000000000	CI	1969	1969	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 18720.000000000	CI	1969	1969	N			See continuation page.

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Co-60	Particulate.	Unknown.	T 39200.000000000	CI	1969	1969	N			See continuation page.
Sr-90	Particulate.	Unknown.	T 53.830000000000	CI	1969	1969	N			See continuation page.
Tc-99	Particulate.	Unknown.	T 10.530000000000	CI	1969	1969	N			See continuation page.
I-129	Particulate.	Unknown.	T .00273780000000	CI	1969	1969	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 11700.000000000	CI	1969	1969	N			See continuation page.
Ce-144	Particulate.	Unknown.	T 275.00000000000	CI	1969	1969	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .16970000000000	CI	1969	1969	N			See continuation page.
Eu-155	Particulate.	Unknown.	T 550.00000000000	CI	1969	1969	N			See continuation page.
U-234	Particulate.	Unknown.	T .12290000000000	CI	1969	1969	N			See continuation page.

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U-235	Particulate.	Unknown.	T .00263300000000	CI	1969	1969	N			See continuation page.
U-236	Particulate.	Unknown.	T .04680000000000	CI	1969	1969	N			See continuation page.
Np-237	Particulate.	Unknown.	T .07606000000000	CI	1969	1969	N			See continuation page.
Pu-238	Particulate.	Unknown.	T 3.1590000000000	CI	1969	1969	N			See continuation page.
Pu-239	Particulate.	Unknown.	T 3.1590000000000	CI	1969	1969	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .33350000000000	CI	1969	1969	N			See continuation page.
Pu-241	Particulate.	Unknown.	T 345.20000000000	CI	1969	1969	N			See continuation page.
Am-241	Particulate.	Unknown.	T 1.5800000000000	CI	1969	1969	N			See continuation page.
Cm-242	Particulate.	Unknown.	T 1.5800000000000	CI	1969	1969	N			See continuation page.

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Cm-244	Particulate.	Unknown.	T 1.4630000000000	CI	1969	1969	N			See continuation page.
U-235	Particulate.	Unknown.	T .00014623000000	CI	1969	1969	N	-20%	+20%	See comment below.
U-235	Particulate.	Unknown.	T .28000000000000	CI	1970	1970	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T .06088000000000	CI	1971	1971	N			See continuation page.
C-14	Particulate.	Unknown.	T .00816700000000	CI	1971	1971	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 1.4110000000000	CI	1971	1971	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00042320000000	CI	1971	1971	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .23760000000000	CI	1971	1971	N			See continuation page.
Co-60	Particulate.	Unknown.	T .49740000000000	CI	1971	1971	N			See continuation page.

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Sr-90	Particulate.	Unknown.	T .00068310000000	CI	1971	1971	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00013360000000	CI	1971	1971	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000003475000	CI	1971	1971	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .14850000000000	CI	1971	1971	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00349000000000	CI	1971	1971	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000215300000	CI	1971	1971	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00697900000000	CI	1971	1971	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000155900000	CI	1971	1971	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000003340000	CI	1971	1971	N			See continuation page.

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U-236	Particulate.	Unknown.	T .00000059400000	CI	1971	1971	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000096520000	CI	1971	1971	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00004009000000	CI	1971	1971	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00004009000000	CI	1971	1971	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000423200000	CI	1971	1971	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00438000000000	CI	1971	1971	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00002005000000	CI	1971	1971	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00002005000000	CI	1971	1971	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00001856000000	CI	1971	1971	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Particulate.	Unknown.	T .00760400000000	CI	1973	1973	N			See continuation page.
C-14	Particulate.	Unknown.	T .00102000000000	CI	1973	1973	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .17620000000000	CI	1973	1973	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00005286000000	CI	1973	1973	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .02967000000000	CI	1973	1973	N			See continuation page.
Co-60	Particulate.	Unknown.	T .06213000000000	CI	1973	1973	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00008531000000	CI	1973	1973	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00001669000000	CI	1973	1973	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000434000	CI	1973	1973	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Particulate.	Unknown.	T .01855000000000	CI	1973	1973	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00043580000000	CI	1973	1973	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000026890000	CI	1973	1973	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00087170000000	CI	1973	1973	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000019470000	CI	1973	1973	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000420000	CI	1973	1973	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000007420000	CI	1973	1973	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000012050000	CI	1973	1973	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000500700000	CI	1973	1973	N			See continuation page.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Particulate.	Unknown.	T .00000500700000	CI	1973	1973	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000052860000	CI	1973	1973	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00054170000000	CI	1973	1973	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000250400000	CI	1973	1973	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000250400000	CI	1973	1973	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000231800000	CI	1973	1973	N			See continuation page.
Co-60	Particulate.	Unknown.	T 155.94000000000	CI	1973	1973	N	-20%	+20%	See comment below.
Cr-51	Particulate.	Unknown.	T 1402.8900000000	CI	1973	1973	N	-20%	+20%	See comment below.
Fe-59	Particulate.	Unknown.	T 172.34000000000	CI	1973	1973	N	-20%	+20%	See comment below.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Mn-54	Particulate.	Unknown.	T .05000000000000	CI	1973	1973	N	-20%	+20%	See comment below.
Ni-59	Particulate.	Unknown.	T .20000000000000	CI	1973	1973	N	-20%	+20%	See continuation page.
Co-60	Particulate.	Unknown.	T 91.260000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Cr-51	Particulate.	Unknown.	T 116.64000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Fe-59	Particulate.	Unknown.	T 14.400000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Mn-54	Particulate.	Unknown.	T 31.900000000000	CI	1974	1974	N	-20%	+20%	See comment below.
Zn-65	Particulate.	Unknown.	T 179.80000000000	CI	1974	1974	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T .03404000000000	CI	1975	1975	N			See continuation page.
C-14	Particulate.	Unknown.	T .00456600000000	CI	1975	1975	N			See continuation page.

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Fe-55	Particulate.	Unknown.	T .78870000000000	CI	1975	1975	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00023660000000	CI	1975	1975	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .13280000000000	CI	1975	1975	N			See continuation page.
Co-60	Particulate.	Unknown.	T .27810000000000	CI	1975	1975	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00038190000000	CI	1975	1975	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00007472000000	CI	1975	1975	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000001943000	CI	1975	1975	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .08302000000000	CI	1975	1975	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00195100000000	CI	1975	1975	N			See continuation page.

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Eu-154	Particulate.	Unknown.	T .00000120400000	CI	1975	1975	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00390200000000	CI	1975	1975	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000087180000	CI	1975	1975	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000001870000	CI	1975	1975	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000033210000	CI	1975	1975	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000053970000	CI	1975	1975	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00002242000000	CI	1975	1975	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00002242000000	CI	1975	1975	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000236600000	CI	1975	1975	N			See continuation page.

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Pu-241	Particulate.	Unknown.	T .00244900000000	CI	1975	1975	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00001121000000	CI	1975	1975	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00001121000000	CI	1975	1975	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00001038000000	CI	1975	1975	N			See continuation page.
Co-60	Particulate.	Unknown.	T 19.440000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Cr-51	Particulate.	Unknown.	T 174.96000000000	CI	1975	1975	N	-20%	+20%	See comment below.
Fe-59	Particulate.	Unknown.	T 21.600000000000	CI	1975	1975	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T 2.8280000000000	CI	1976	1976	N			See continuation page.
C-14	Particulate.	Unknown.	T .37940000000000	CI	1976	1976	N			See continuation page.

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Fe-55	Particulate.	Unknown.	T 65.530000000000	CI	1976	1976	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .01966000000000	CI	1976	1976	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 11.040000000000	CI	1976	1976	N			See continuation page.
Co-60	Particulate.	Unknown.	T 23.110000000000	CI	1976	1976	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .03173000000000	CI	1976	1976	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00620900000000	CI	1976	1976	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000161460000	CI	1976	1976	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 6.8980000000000	CI	1976	1976	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .16210000000000	CI	1976	1976	N			See continuation page.

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Eu-154	Particulate.	Unknown.	T .00010000000000	CI	1976	1976	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .32420000000000	CI	1976	1976	N			See continuation page.
U-234	Particulate.	Unknown.	T .00007243000000	CI	1976	1976	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000155200000	CI	1976	1976	N			See continuation page.
U-236	Particulate.	Unknown.	T .00002759000000	CI	1976	1976	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00004484000000	CI	1976	1976	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00186300000000	CI	1976	1976	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00186300000000	CI	1976	1976	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00019660000000	CI	1976	1976	N			See continuation page.

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Pu-241	Particulate.	Unknown.	T .20350000000000	CI	1976	1976	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00093130000000	CI	1976	1976	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00093130000000	CI	1976	1976	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00086230000000	CI	1976	1976	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000962990000	CI	1976	1976	N	-20%	+20%	See comment below.
U-238	Particulate.	Unknown.	T .00006443500000	CI	1976	1976	N	-20%	+20%	See comment below.
H-3	Particulate.	Unknown.	T 8.8160000000000	CI	1977	1977	N			See continuation page.
C-14	Particulate.	Unknown.	T 1.1830000000000	CI	1977	1977	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 204.30000000000	CI	1977	1977	N			See continuation page.

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Ni-59	Particulate.	Unknown.	T .06128000000000	CI	1977	1977	N			See continuation page.
Ni-63	Particulate.	Unknown.	T 34.400000000000	CI	1977	1977	N			See continuation page.
Co-60	Particulate.	Unknown.	T 72.030000000000	CI	1977	1977	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .09891000000000	CI	1977	1977	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .01935000000000	CI	1977	1977	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000503100000	CI	1977	1977	N			See continuation page.
Cs-137	Particulate.	Unknown.	T 21.500000000000	CI	1977	1977	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .50530000000000	CI	1977	1977	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00031180000000	CI	1977	1977	N			See continuation page.

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Eu-155	Particulate.	Unknown.	T 1.0110000000000	CI	1977	1977	N			See continuation page.
U-234	Particulate.	Unknown.	T .00022580000000	CI	1977	1977	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000483800000	CI	1977	1977	N			See continuation page.
U-236	Particulate.	Unknown.	T .00008601000000	CI	1977	1977	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00013980000000	CI	1977	1977	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00580500000000	CI	1977	1977	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00580500000000	CI	1977	1977	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00061280000000	CI	1977	1977	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .63430000000000	CI	1977	1977	N			See continuation page.

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Am-241	Particulate.	Unknown.	T .00290300000000	CI	1977	1977	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00290300000000	CI	1977	1977	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00268800000000	CI	1977	1977	N			See continuation page.

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1. Type of source of information:
(check box)

[X] RWMIS [ ] other database
[ ] sample analysis data
[ ] operating records [X] interview
[ ] expert judgment [ ] reports
[ ] other

2. Details concerning source (names, report no., dates, etc.)
Interviewees wish to remain anonymous.

3. Do the estimates of contaminant quantities in Part C and D represent:
[X] best estimate
[ ] worst case
[ ] other

4. If other than best estimate, explain why:

5. Do the data conflict with RWMIS?
(Historical or Present Data Only)
[ ] no
[X] yes

6. If yes, explain why:
A portion of, or all of the measurements, were assumed to be taken using a G-M detector which only measures gamma emitters; beta emitters have been added to the RWMIS activity based on scaling factors. Therefore, the total activity will be greater than that in RWMIS.

7. Major unknowns in inventories of contaminants:
MAP, MFP, and unidentified beta and gamma radionuclides are unknown.

8. Key assumptions used to deal with the unknowns:
MAP radionuclides were chosen based on their cross sections and half lives. MFP radionuclides were chosen based on their fissionable products. Unidentified beta are MAP and MFP radionuclides. The gamma radionuclide is the only appreciable gamma for this area because of the reactors. On part D, no G-M counter correction is needed to entries for which upper and lower bounds are given. The presence of such bounds indicates that the estimate was based on weight, laboratory analysis, spectrometry, and/or mathematical calculations. The G-M counter correction is needed for entries for which no bounds are given, because such estimates were originally made using the G-M counter method.

Continuation of Part D Column or Question Number or Title Uncertainty basis.

Because of the time spread, 1960-1977, the method of analysis is not known. Radionuclide information was obtained from a variety of methods such as a smear, a Geiger-Mueller counter, NaI and Germanium detectors. Therefore, the true uncertainty is not known.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 203

1. Preparer: Amaro, C.

2. Date prepared: 08/30/93

3. Generator: TRA
(area or contractor - use code from attached list)

4. Particular facility: 603
(building number - use code from attached list)

5. Number of waste stream from this facility:
17H

6. Waste stream:
Dirt.

7. Type of radioactive waste (check box):
[ ] TRU or suspect TRU
[X] LLW
[ ] non-radioactive

8. Actual years disposed of at SDA:
Starting year 1960 Ending year 1973

9. Waste stream volume:
Amount 152.7256 Units Cubic feet.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. Also 632, 642, 647, 670, 662, and 657.

1. General physical form (see attached list)
Soil.
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Dirt.

3. Chemical form:
Unknown.

4. Inner packaging: [ ] plastic bag [ ] plastic liner
[ ] metal liner [ ] none [ ] other (specify)

5. Waste container type (see attached list)
Wooden box*.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. BLM, BXC, and "Other". "Other" cannot be defined by the preparer.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Contaminant & CAS Registry Number	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
None.										

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Particulate.	Unknown.	T .01788000000000	CI	1960	1960	N			See continuation page.
C-14	Particulate.	Unknown.	T .00239800000000	CI	1960	1960	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .41420000000000	CI	1960	1960	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00012430000000	CI	1960	1960	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .06976000000000	CI	1960	1960	N			See continuation page.
Co-60	Particulate.	Unknown.	T .14610000000000	CI	1960	1960	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00020060000000	CI	1960	1960	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00003924000000	CI	1960	1960	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000001021000	CI	1960	1960	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Particulate.	Unknown.	T .04360000000000	CI	1960	1960	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00102500000000	CI	1960	1960	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000063220000	CI	1960	1960	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00204900000000	CI	1960	1960	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000045780000	CI	1960	1960	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000980000	CI	1960	1960	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000017440000	CI	1960	1960	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000028340000	CI	1960	1960	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00001177000000	CI	1960	1960	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samp les?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Particulate.	Unknown.	T .00001177000000	CI	1960	1960	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000124300000	CI	1960	1960	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00128600000000	CI	1960	1960	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000588600000	CI	1960	1960	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000588600000	CI	1960	1960	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000545000000	CI	1960	1960	N			See continuation page.
H-3	Particulate.	Unknown.	T .02805000000000	CI	1961	1961	N			See continuation page.
C-14	Particulate.	Unknown.	T .00376300000000	CI	1961	1961	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .65000000000000	CI	1961	1961	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-59	Particulate.	Unknown.	T .00019500000000	CI	1961	1961	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .10950000000000	CI	1961	1961	N			See continuation page.
Co-60	Particulate.	Unknown.	T .22920000000000	CI	1961	1961	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00031470000000	CI	1961	1961	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00006158000000	CI	1961	1961	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000001601000	CI	1961	1961	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .06842000000000	CI	1961	1961	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00160800000000	CI	1961	1961	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000099210000	CI	1961	1961	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-155	Particulate.	Unknown.	T .00321600000000	CI	1961	1961	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000071840000	CI	1961	1961	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000001540000	CI	1961	1961	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000027370000	CI	1961	1961	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000044470000	CI	1961	1961	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00001847000000	CI	1961	1961	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00001847000000	CI	1961	1961	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000195000000	CI	1961	1961	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00201800000000	CI	1961	1961	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Am-241	Particulate.	Unknown.	T .00000923700000	CI	1961	1961	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000923700000	CI	1961	1961	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000855200000	CI	1961	1961	N			See continuation page.
H-3	Particulate.	Unknown.	T .04087000000000	CI	1962	1962	N			See continuation page.
C-14	Particulate.	Unknown.	T .00548200000000	CI	1962	1962	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .94700000000000	CI	1962	1962	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00028410000000	CI	1962	1962	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .15950000000000	CI	1962	1962	N			See continuation page.
Co-60	Particulate.	Unknown.	T .33390000000000	CI	1962	1962	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Particulate.	Unknown.	T .00045850000000	CI	1962	1962	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00008971000000	CI	1962	1962	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000002333000	CI	1962	1962	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .09968000000000	CI	1962	1962	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00234200000000	CI	1962	1962	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000144500000	CI	1962	1962	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00468500000000	CI	1962	1962	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000104700000	CI	1962	1962	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000002240000	CI	1962	1962	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
U-236	Particulate.	Unknown.	T .00000039870000	CI	1962	1962	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000064790000	CI	1962	1962	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00002691000000	CI	1962	1962	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00002691000000	CI	1962	1962	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000284100000	CI	1962	1962	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00294100000000	CI	1962	1962	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00001346000000	CI	1962	1962	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00001346000000	CI	1962	1962	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00001246000000	CI	1962	1962	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
H-3	Particulate.	Unknown.	T .17320000000000	CI	1963	1963	N			See continuation page.
C-14	Particulate.	Unknown.	T .02323000000000	CI	1963	1963	N			See continuation page.
Fe-55	Particulate.	Unknown.	T 4.0130000000000	CI	1963	1963	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00120400000000	CI	1963	1963	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .67580000000000	CI	1963	1963	N			See continuation page.
Co-60	Particulate.	Unknown.	T 1.4150000000000	CI	1963	1963	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00194300000000	CI	1963	1963	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00038010000000	CI	1963	1963	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000009882000	CI	1963	1963	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Cs-137	Particulate.	Unknown.	T .42240000000000	CI	1963	1963	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00992600000000	CI	1963	1963	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000612400000	CI	1963	1963	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .01985000000000	CI	1963	1963	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000443500000	CI	1963	1963	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000009500000	CI	1963	1963	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000168900000	CI	1963	1963	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000274500000	CI	1963	1963	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00011400000000	CI	1963	1963	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-239	Particulate.	Unknown.	T .00011400000000	CI	1963	1963	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00001205000000	CI	1963	1963	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .01246000000000	CI	1963	1963	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00005702000000	CI	1963	1963	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00005702000000	CI	1963	1963	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00005280000000	CI	1963	1963	N			See continuation page.
H-3	Particulate.	Unknown.	T .01191000000000	CI	1964	1964	N			See continuation page.
C-14	Particulate.	Unknown.	T .00159800000000	CI	1964	1964	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .27590000000000	CI	1964	1964	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-59	Particulate.	Unknown.	T .00008278000000 *	CI	1964	1964	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .04647000000000	CI	1964	1964	N			See continuation page.
Co-60	Particulate.	Unknown.	T .09730000000000	CI	1964	1964	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00013360000000	CI	1964	1964	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00002614000000	CI	1964	1964	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000680000	CI	1964	1964	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .02905000000000	CI	1964	1964	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00068260000000	CI	1964	1964	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000042120000	CI	1964	1964	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Eu-155	Particulate.	Unknown.	T .00136500000000	CI	1964	1964	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000030500000	CI	1964	1964	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000650000	CI	1964	1964	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000011620000	CI	1964	1964	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000018880000	CI	1964	1964	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000784200000	CI	1964	1964	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00000784200000	CI	1964	1964	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000082780000	CI	1964	1964	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00085690000000	CI	1964	1964	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Am-241	Particulate.	Unknown.	T .00000392100000	CI	1964	1964	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000392100000	CI	1964	1964	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000363100000	CI	1964	1964	N			See continuation page.
H-3	Particulate.	Unknown.	T .00001640000000	CI	1965	1965	N			See continuation page.
C-14	Particulate.	Unknown.	T .00000220000000	CI	1965	1965	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .00037990000000	CI	1965	1965	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00000011400000	CI	1965	1965	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .00006399000000	CI	1965	1965	N			See continuation page.
Co-60	Particulate.	Unknown.	T .00013400000000	CI	1965	1965	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samp les?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Sr-90	Particulate.	Unknown.	T .00000018400000	CI	1965	1965	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00000003600000	CI	1965	1965	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000001000	CI	1965	1965	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .00003999000000	CI	1965	1965	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00000093990000	CI	1965	1965	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000000060000	CI	1965	1965	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00000188000000	CI	1965	1965	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000000040000	CI	1965	1965	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000000020000	CI	1965	1965	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Np-237	Particulate.	Unknown.	T .00000000030000	CI	1965	1965	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000001080000	CI	1965	1965	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00000001080000	CI	1965	1965	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000000110000	CI	1965	1965	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00000118000000	CI	1965	1965	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000000540000	CI	1965	1965	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000000540000	CI	1965	1965	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000000500000	CI	1965	1965	N			See continuation page.
H-3	Particulate.	Unknown.	T .00210400000000	CI	1966	1966	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
C-14	Particulate.	Unknown.	T .00028220000000	CI	1966	1966	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .04874000000000	CI	1966	1966	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00001462000000	CI	1966	1966	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .00820900000000	CI	1966	1966	N			See continuation page.
Co-60	Particulate.	Unknown.	T .01719000000000	CI	1966	1966	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00002360000000	CI	1966	1966	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00000461800000	CI	1966	1966	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000120000	CI	1966	1966	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .00513100000000	CI	1966	1966	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column.
If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

For each contaminant, complete at least one line on the following table. If any entries for that contaminant vary by year, fill out additional lines as needed to cover the varying entries for different years. For example, if the annual quantity disposed was x kg for 1952-56 and y kg for 1956-84, use two lines to handle this situation.

Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ce-144	Particulate.	Unknown.	T .00012060000000	CI	1966	1966	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000007440000	CI	1966	1966	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00024110000000	CI	1966	1966	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000005390000	CI	1966	1966	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000120000	CI	1966	1966	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000002050000	CI	1966	1966	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000003340000	CI	1966	1966	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000138500000	CI	1966	1966	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00000138500000	CI	1966	1966	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Pu-240	Particulate.	Unknown.	T .00000014620000	CI	1966	1966	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00015140000000	CI	1966	1966	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000069270000	CI	1966	1966	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000069270000	CI	1966	1966	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000064130000	CI	1966	1966	N			See continuation page.
H-3	Particulate.	Unknown.	T .00000000090000	CI	1967	1967	N			See continuation page.
C-14	Particulate.	Unknown.	T .00000000010000	CI	1967	1967	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .00000001920000	CI	1967	1967	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .00000000320000	CI	1967	1967	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Co-60	Particulate.	Unknown.	T .00000000680000	CI	1967	1967	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .00000000200000	CI	1967	1967	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00000000010000	CI	1967	1967	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00000000001000	CI	1967	1967	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00000000001000	CI	1967	1967	N			See continuation page.
H-3	Particulate.	Unknown.	T .00002583000000	CI	1968	1968	N			See continuation page.
C-14	Particulate.	Unknown.	T .00000346400000	CI	1968	1968	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .00059840000000	CI	1968	1968	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00000017950000	CI	1968	1968	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)

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Radionuclide	Physical Form	Chemical Form	(A)nnual/(T)otal Quantity	Unit	Begin Year	End Year	Samples?	Minimum Value/#Samp	Maximum Value/STD	Basis for Uncertainty
Ni-63	Particulate.	Unknown.	T .00010080000000	CI	1968	1968	N			See continuation page.
Co-60	Particulate.	Unknown.	T .00021100000000	CI	1968	1968	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00000028980000	CI	1968	1968	N			See continuation page.
Tc-99	Particulate.	Unknown.	T .00000005670000	CI	1968	1968	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000001000	CI	1968	1968	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .00006299000000	CI	1968	1968	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00000148000000	CI	1968	1968	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000000090000	CI	1968	1968	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00000296100000	CI	1968	1968	N			See continuation page.

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U-234	Particulate.	Unknown.	T .00000000070000	CI	1968	1968	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000010000	CI	1968	1968	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000000030000	CI	1968	1968	N			See continuation page.
Np-237	Particulate.	Unknown.	T .00000000040000	CI	1968	1968	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000001700000	CI	1968	1968	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00000001700000	CI	1968	1968	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000000180000	CI	1968	1968	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00000185800000	CI	1968	1968	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000000850000	CI	1968	1968	N			See continuation page.

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Cm-242	Particulate.	Unknown.	T .00000000850000	CI	1968	1968	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000000790000	CI	1968	1968	N			See continuation page.
H-3	Particulate.	Unknown.	T .00212700000000	CI	1973	1973	N			See continuation page.
C-14	Particulate.	Unknown.	T .00028530000000	CI	1973	1973	N			See continuation page.
Fe-55	Particulate.	Unknown.	T .04928000000000	CI	1973	1973	N			See continuation page.
Ni-59	Particulate.	Unknown.	T .00001478000000	CI	1973	1973	N			See continuation page.
Ni-63	Particulate.	Unknown.	T .00830000000000	CI	1973	1973	N			See continuation page.
Co-60	Particulate.	Unknown.	T .01738000000000	CI	1973	1973	N			See continuation page.
Sr-90	Particulate.	Unknown.	T .00002386000000	CI	1973	1973	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)

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Tc-99	Particulate.	Unknown.	T .00000466900000	CI	1973	1973	N			See continuation page.
I-129	Particulate.	Unknown.	T .00000000121000	CI	1973	1973	N			See continuation page.
Cs-137	Particulate.	Unknown.	T .00518700000000	CI	1973	1973	N			See continuation page.
Ce-144	Particulate.	Unknown.	T .00012190000000	CI	1973	1973	N			See continuation page.
Eu-154	Particulate.	Unknown.	T .00000007520000	CI	1973	1973	N			See continuation page.
Eu-155	Particulate.	Unknown.	T .00024380000000	CI	1973	1973	N			See continuation page.
U-234	Particulate.	Unknown.	T .00000005450000	CI	1973	1973	N			See continuation page.
U-235	Particulate.	Unknown.	T .00000000120000	CI	1973	1973	N			See continuation page.
U-236	Particulate.	Unknown.	T .00000002070000	CI	1973	1973	N			See continuation page.

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Additional information or explanations (indicate pertinent contaminant)
Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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Np-237	Particulate.	Unknown.	T .00000003370000	CI	1973	1973	N			See continuation page.
Pu-238	Particulate.	Unknown.	T .00000140100000	CI	1973	1973	N			See continuation page.
Pu-239	Particulate.	Unknown.	T .00000140100000	CI	1973	1973	N			See continuation page.
Pu-240	Particulate.	Unknown.	T .00000014780000	CI	1973	1973	N			See continuation page.
Pu-241	Particulate.	Unknown.	T .00015300000000	CI	1973	1973	N			See continuation page.
Am-241	Particulate.	Unknown.	T .00000070030000	CI	1973	1973	N			See continuation page.
Cm-242	Particulate.	Unknown.	T .00000070030000	CI	1973	1973	N			See continuation page.
Cm-244	Particulate.	Unknown.	T .00000064840000	CI	1973	1973	N			See continuation page.

* If sample data are available, mark Y in the column titled "Samples?" and provide number of samples in the next column and standard deviation in the next column. If not, mark N and give the minimum value and maximum value.

Additional information or explanations (indicate pertinent contaminant)

Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, Am-241) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-603-17H

1. Type of source of information:
(check box)

[X] RWMIS [ ] other database
[ ] sample analysis data
[ ] operating records [X] interview
[ ] expert judgment [ ] reports
[ ] other

2. Details concerning source (names, report no., dates, etc.)
Interviewees wish to remain anonymous.

3. Do the estimates of contaminant quantities in Part C and D represent:
[X] best estimate
[ ] worst case
[ ] other

4. If other than best estimate, explain why:

5. Do the data conflict with RWMIS?
(Historical or Present Data Only)
[ ] no
[X] yes

6. If yes, explain why:
A portion of, or all of the measurements, were assumed to be taken using a G-M detector which only measures gamma emitters; beta emitters have been added to the RWMIS activity based on scaling factors. Therefore, the total activity will be greater than that in RWMIS.

7. Major unknowns in inventories of contaminants:
MAP and MFP were unidentified.

8. Key assumptions used to deal with the unknowns:
MAP radionuclides were chosen based on their cross sections and half lives. MFP radionuclides were chosen based on their fissionable products and half lives. On part D, no G-M counter correction is needed to entries for which upper and lower bounds are given. The presence of such bounds indicates that the estimate was based on weight, laboratory analysis, spectrometry, and/or mathematical calculations. The G-M counter correction is needed for entries for which no bounds are given, because such estimates were originally made using the G-M counter method.

Continuation of Part D Column or Question Number or Title Uncertainty basis.

A Geiger-Mueller counter was probably used to measure this item. Therefore, a true uncertainty is not known.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 202

1. Preparer: Amaro, C.

2. Date prepared: 08/30/93

3. Generator: TRA
(area or contractor - use code from attached list)

4. Particular facility: 603
(building number - use code from attached list)

5. Number of waste stream from this facility:
18H

6. Waste stream:
Rags, floor sweepings and glassware.

7. Type of radioactive waste (check box):
[ ] TRU or suspect TRU
[X] LLW
[ ] non-radioactive

8. Actual years disposed of at SDA:
Starting year 1960 Ending year 1970

9. Waste stream volume:
Amount 1846.6219 Units Cubic feet.
Check box: [ ] annual or [X] total over all years
Check box: [X] container volume or [ ] waste volume

10. Comments (specify number of pertinent question):
4. Also 632, 642, 653, 661, and 670.