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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
Tc-99	Metal.	PbO.	T .00000019800000	CI	1965	1965	N			See continuation page.
I-129	Metal.	PbO.	T .00000000005000	CI	1965	1965	N			See continuation page.
Cs-137	Metal.	PbO.	T .00022000000000	CI	1965	1965	N			See continuation page.
Ce-144	Metal.	PbO.	T .00000517000000	CI	1965	1965	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000000320000	CI	1965	1965	N			See continuation page.
Eu-155	Metal.	PbO.	T .00001034000000	CI	1965	1965	N			See continuation page.
U-234	Metal.	PbO.	T .00000000230000	CI	1965	1965	N			See continuation page.
U-235	Metal.	PbO.	T .00000000010000	CI	1965	1965	N			See continuation page.
U-236	Metal.	PbO.	T .00000000090000	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.

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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
Np-237	Metal.	PbO.	T .00000000140000	CI	1965	1965	N			See continuation page.
Pu-238	Metal.	PbO.	T .00000005940000	CI	1965	1965	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000005940000	CI	1965	1965	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000000630000	CI	1965	1965	N			See continuation page.
Pu-241	Metal.	PbO.	T .00000649000000	CI	1965	1965	N			See continuation page.
Am-241	Metal.	PbO.	T .00000002970000	CI	1965	1965	N			See continuation page.
Cm-242	Metal.	PbO.	T .00000002970000	CI	1965	1965	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000002750000	CI	1965	1965	N			See continuation page.
H-3	Metal.	PbO.	T .00008200000000	CI	1968	1968	N			See continuation page.

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C-14	Metal.	PbO.	T .00001100000000	CI	1968	1968	N			See continuation page.
Fe-55	Metal.	PbO.	T .00190000000000	CI	1968	1968	N			See continuation page.
Ni-59	Metal.	PbO.	T .00000057000000	CI	1968	1968	N			See continuation page.
Ni-63	Metal.	PbO.	T .00032000000000	CI	1968	1968	N			See continuation page.
Co-60	Metal.	PbO.	T .00067000000000	CI	1968	1968	N			See continuation page.
Sr-90	Metal.	PbO.	T .00000092000000	CI	1968	1968	N			See continuation page.
Tc-99	Metal.	PbO.	T .00000018000000	CI	1968	1968	N			See continuation page.
I-129	Metal.	PbO.	T .00000000005000	CI	1968	1968	N			See continuation page.
Cs-137	Metal.	PbO.	T .00020000000000	CI	1968	1968	N			See continuation page.

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Ce-144	Metal.	PbO.	T .00000470000000	CI	1968	1968	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000000290000	CI	1968	1968	N			See continuation page.
Eu-155	Metal.	PbO.	T .00000940000000	CI	1968	1968	N			See continuation page.
U-234	Metal.	PbO.	T .00000000210000	CI	1968	1968	N			See continuation page.
U-235	Metal.	PbO.	T .00000000010000	CI	1968	1968	N			See continuation page.
U-236	Metal.	PbO.	T .00000000080000	CI	1968	1968	N			See continuation page.
Np-237	Metal.	PbO.	T .00000000130000	CI	1968	1968	N			See continuation page.
Pu-238	Metal.	PbO.	T .00000005400000	CI	1968	1968	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000005400000	CI	1968	1968	N			See continuation page.

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Pu-240	Metal.	PbO.	T .00000000570000	CI	1968	1968	N			See continuation page.
Pu-241	Metal.	PbO.	T .00000590000000	CI	1968	1968	N			See continuation page.
Am-241	Metal.	PbO.	T .00000002700000	CI	1968	1968	N			See continuation page.
Cm-242	Metal.	PbO.	T .00000002700000	CI	1968	1968	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000002500000	CI	1968	1968	N			See continuation page.
H-3	Metal.	PbO.	T .16450000000000	CI	1970	1970	N			See continuation page.
C-14	Metal.	PbO.	T .02207000000000	CI	1970	1970	N			See continuation page.
Fe-55	Metal.	PbO.	T 3.8130000000000	CI	1970	1970	N			See continuation page.
Ni-59	Metal.	PbO.	T .00114400000000	CI	1970	1970	N			See continuation page.

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Ni-63	Metal.	PbO.	T .64210000000000	CI	1970	1970	N			See continuation page.
Co-60	Metal.	PbO.	T 1.3440000000000	CI	1970	1970	N			See continuation page.
Sr-90	Metal.	PbO.	T .00184600000000	CI	1970	1970	N			See continuation page.
Tc-99	Metal.	PbO.	T .00036120000000	CI	1970	1970	N			See continuation page.
I-129	Metal.	PbO.	T .00000009387000	CI	1970	1970	N			See continuation page.
Cs-137	Metal.	PbO.	T .40130000000000	CI	1970	1970	N			See continuation page.
Ce-144	Metal.	PbO.	T .00943100000000	CI	1970	1970	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000581900000	CI	1970	1970	N			See continuation page.
Eu-155	Metal.	PbO.	T .01886000000000	CI	1970	1970	N			See continuation page.

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U-234	Metal.	PbO.	T .00000421400000	CI	1970	1970	N			See continuation page.
U-235	Metal.	PbO.	T .00000009030000	CI	1970	1970	N			See continuation page.
U-236	Metal.	PbO.	T .00000160500000	CI	1970	1970	N			See continuation page.
Np-237	Metal.	PbO.	T .00000260900000	CI	1970	1970	N			See continuation page.
Pu-238	Metal.	PbO.	T .00010840000000	CI	1970	1970	N			See continuation page.
Pu-239	Metal.	PbO.	T .00010840000000	CI	1970	1970	N			See continuation page.
Pu-240	Metal.	PbO.	T .00001144000000	CI	1970	1970	N			See continuation page.
Pu-241	Metal.	PbO.	T .01184000000000	CI	1970	1970	N			See continuation page.
Am-241	Metal.	PbO.	T .00005418000000	CI	1970	1970	N			See continuation page.

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Cm-242	Metal.	PbO.	T .00005418000000	CI	1970	1970	N			See continuation page.
Cm-244	Metal.	PbO.	T .00005017000000	CI	1970	1970	N			See continuation page.
H-3	Metal.	PbO.	T .03745000000000	CI	1971	1971	N			See continuation page.
C-14	Metal.	PbO.	T .00502400000000	CI	1971	1971	N			See continuation page.
Fe-55	Metal.	PbO.	T .86780000000000	CI	1971	1971	N			See continuation page.
Ni-59	Metal.	PbO.	T .00026030000000	CI	1971	1971	N			See continuation page.
Ni-63	Metal.	PbO.	T .14620000000000	CI	1971	1971	N			See continuation page.
Co-60	Metal.	PbO.	T .30600000000000	CI	1971	1971	N			See continuation page.
Sr-90	Metal.	PbO.	T .00042020000000	CI	1971	1971	N			See continuation page.

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Tc-99	Metal.	PbO.	T .00008221000000	CI	1971	1971	N			See continuation page.
I-129	Metal.	PbO.	T .00000002138000	CI	1971	1971	N			See continuation page.
Cs-137	Metal.	PbO.	T .09134000000000	CI	1971	1971	N			See continuation page.
Ce-144	Metal.	PbO.	T .00214700000000	CI	1971	1971	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000132400000	CI	1971	1971	N			See continuation page.
Eu-155	Metal.	PbO.	T .00429300000000	CI	1971	1971	N			See continuation page.
U-234	Metal.	PbO.	T .00000095910000	CI	1971	1971	N			See continuation page.
U-235	Metal.	PbO.	T .00000002060000	CI	1971	1971	N			See continuation page.
U-236	Metal.	PbO.	T .00000036540000	CI	1971	1971	N			See continuation page.

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Np-237	Metal.	PbO.	T .00000059370000	CI	1971	1971	N			See continuation page.
Pu-238	Metal.	PbO.	T .00002466000000	CI	1971	1971	N			See continuation page.
Pu-239	Metal.	PbO.	T .00002466000000	CI	1971	1971	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000260300000	CI	1971	1971	N			See continuation page.
Pu-241	Metal.	PbO.	T .00269500000000	CI	1971	1971	N			See continuation page.
Am-241	Metal.	PbO.	T .00001233000000	CI	1971	1971	N			See continuation page.
Cm-242	Metal.	PbO.	T .00001233000000	CI	1971	1971	N			See continuation page.
Cm-244	Metal.	PbO.	T .00001142000000	CI	1971	1971	N			See continuation page.
Pu-240	Metal.	PbO.	T .00089999000000	CI	1971	1971	N	-20%	+20%	See comment below.

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Pu-241	Metal.	PbO.	T .00009999900000	CI	1971	1971	N	-20%	+20%	See comment below.
H-3	Metal.	PbO.	T .00580400000000	CI	1972	1972	N			See continuation page.
C-14	Metal.	PbO.	T .00077850000000	CI	1972	1972	N			See continuation page.
Fe-55	Metal.	PbO.	T .13450000000000	CI	1972	1972	N			See continuation page.
Ni-59	Metal.	PbO.	T .00004034000000	CI	1972	1972	N			See continuation page.
Ni-63	Metal.	PbO.	T .02265000000000	CI	1972	1972	N			See continuation page.
Co-60	Metal.	PbO.	T .04742000000000	CI	1972	1972	N			See continuation page.
Sr-90	Metal.	PbO.	T .00006511000000	CI	1972	1972	N			See continuation page.
Tc-99	Metal.	PbO.	T .00001274000000	CI	1972	1972	N			See continuation page.

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I-129	Metal.	PbO.	T .00000000331000	CI	1972	1972	N			See continuation page.
Cs-137	Metal.	PbO.	T .01416000000000	CI	1972	1972	N			See continuation page.
Ce-144	Metal.	PbO.	T .00033260000000	CI	1972	1972	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000020530000	CI	1972	1972	N			See continuation page.
Eu-155	Metal.	PbO.	T .00066530000000	CI	1972	1972	N			See continuation page.
U-234	Metal.	PbO.	T .00000014860000	CI	1972	1972	N			See continuation page.
U-235	Metal.	PbO.	T .00000000320000	CI	1972	1972	N			See continuation page.
U-236	Metal.	PbO.	T .00000005660000	CI	1972	1972	N			See continuation page.
Np-237	Metal.	PbO.	T .00000009200000	CI	1972	1972	N			See continuation page.

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Pu-238	Metal.	PbO.	T .00000382200000	CI	1972	1972	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000382200000	CI	1972	1972	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000040340000	CI	1972	1972	N			See continuation page.
Pu-241	Metal.	PbO.	T .00041760000000	CI	1972	1972	N			See continuation page.
Am-241	Metal.	PbO.	T .00000191100000	CI	1972	1972	N			See continuation page.
Cm-242	Metal.	PbO.	T .00000191100000	CI	1972	1972	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000176900000	CI	1972	1972	N			See continuation page.
H-3	Metal.	PbO.	T .00003280000000	CI	1974	1974	N			See continuation page.
C-14	Metal.	PbO.	T .00000440000000	CI	1974	1974	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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
Fe-55	Metal.	PbO.	T .00076000000000	CI	1974	1974	N			See continuation page.
Ni-59	Metal.	PbO.	T .00000022800000	CI	1974	1974	N			See continuation page.
Ni-63	Metal.	PbO.	T .00012800000000	CI	1974	1974	N			See continuation page.
Co-60	Metal.	PbO.	T .00026800000000	CI	1974	1974	N			See continuation page.
Sr-90	Metal.	PbO.	T .00000036800000	CI	1974	1974	N			See continuation page.
Tc-99	Metal.	PbO.	T .00000007200000	CI	1974	1974	N			See continuation page.
I-129	Metal.	PbO.	T .00000000002000	CI	1974	1974	N			See continuation page.
Cs-137	Metal.	PbO.	T .00008000000000	CI	1974	1974	N			See continuation page.
Ce-144	Metal.	PbO.	T .00000188000000	CI	1974	1974	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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-154	Metal.	PbO.	T .00000000120000	CI	1974	1974	N			See continuation page.
Eu-155	Metal.	PbO.	T .00000376000000	CI	1974	1974	N			See continuation page.
U-234	Metal.	PbO.	T .00000000080000	CI	1974	1974	N			See continuation page.
U-235	Metal.	PbO.	T .00000000010000	CI	1974	1974	N			See continuation page.
U-236	Metal.	PbO.	T .00000000030000	CI	1974	1974	N			See continuation page.
Np-237	Metal.	PbO.	T .00000000050000	CI	1974	1974	N			See continuation page.
Pu-238	Metal.	PbO.	T .00000002160000	CI	1974	1974	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000002160000	CI	1974	1974	N			See continuation page.
Pu-240	Metal.	PbO.	T 20.000000000000	CI	1974	1974	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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
Pu-241	Metal.	PbO.	T .00000236000000	CI	1974	1974	N			See continuation page.
Am-241	Metal.	PbO.	T .00001080000000	CI	1974	1974	N			See continuation page.
Cm-242	Metal.	PbO.	T .00001080000000	CI	1974	1974	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000001000000	CI	1974	1974	N			See continuation page.
H-3	Metal.	PbO.	T .08309000000000	CI	1976	1976	N			See continuation page.
C-14	Metal.	PbO.	T .01115000000000	CI	1976	1976	N			See continuation page.
Fe-55	Metal.	PbO.	T 1.9250000000000	CI	1976	1976	N			See continuation page.
Ni-59	Metal.	PbO.	T .00057760000000	CI	1976	1976	N			See continuation page.
Ni-63	Metal.	PbO.	T .32430000000000	CI	1976	1976	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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
Co-60	Metal.	PbO.	T .67890000000000	CI	1976	1976	N			See continuation page.
Sr-90	Metal.	PbO.	T .00093230000000	CI	1976	1976	N			See continuation page.
Tc-99	Metal.	PbO.	T .00018240000000	CI	1976	1976	N			See continuation page.
I-129	Metal.	PbO.	T .00000004742000	CI	1976	1976	N			See continuation page.
Cs-137	Metal.	PbO.	T .20270000000000	CI	1976	1976	N			See continuation page.
Ce-144	Metal.	PbO.	T .00476300000000	CI	1976	1976	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000293900000	CI	1976	1976	N			See continuation page.
Eu-155	Metal.	PbO.	T .00952500000000	CI	1976	1976	N			See continuation page.
U-234	Metal.	PbO.	T .00000212800000	CI	1976	1976	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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-235	Metal.	PbO.	T .00000004560000	CI	1976	1976	N			See continuation page.
U-236	Metal.	PbO.	T .00000081070000	CI	1976	1976	N			See continuation page.
Np-237	Metal.	PbO.	T .00000131700000	CI	1976	1976	N			See continuation page.
Pu-238	Metal.	PbO.	T .00005472000000	CI	1976	1976	N			See continuation page.
Pu-239	Metal.	PbO.	T .00005472000000	CI	1976	1976	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000577600000	CI	1976	1976	N			See continuation page.
Pu-241	Metal.	PbO.	T .00597900000000	CI	1976	1976	N			See continuation page.
Am-241	Metal.	PbO.	T .00002736000000	CI	1976	1976	N			See continuation page.
Cm-242	Metal.	PbO.	T .00002736000000	CI	1976	1976	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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
Cm-244	Metal.	PbO.	T .00002533000000	CI	1976	1976	N			See continuation page.
H-3	Metal.	PbO.	T .00000000010000	CI	1980	1980	N			See continuation page.
Fe-55	Metal.	PbO.	T .00000000030000	CI	1980	1980	N			See continuation page.
Ni-63	Metal.	PbO.	T .00000000010000	CI	1980	1980	N			See continuation page.
Co-60	Metal.	PbO.	T .00000000010000	CI	1980	1980	N			See continuation page.
Cs-137	Metal.	PbO.	T .00000000010000	CI	1980	1980	N			See continuation page.
Co-60	Metal.	PbO.	T .00000000160000	CI	1980	1980	N	-20%	+20%	See comment below.
Sr-90	Metal.	PbO.	T .00000000470000	CI	1980	1980	N	-20%	+20%	See comment below.
Co-60	Metal.	PbO.	T 2.5000000000000	CI	1981	1981	N	-20%	+20%	See comment below.

* 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)

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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	Metal.	PbO.	T 2.5000000000000	CI	1981	1981	N	-20%	+20%	See comment below.
H-3	Metal.	PbO.	T .00008200000000	CI	1982	1982	N			See continuation page.
C-14	Metal.	PbO.	T .00001100000000	CI	1982	1982	N			See continuation page.
Fe-55	Metal.	PbO.	T .00190000000000	CI	1982	1982	N			See continuation page.
Ni-59	Metal.	PbO.	T .00000057000000	CI	1982	1982	N			See continuation page.
Ni-63	Metal.	PbO.	T .00032000000000	CI	1982	1982	N			See continuation page.
Co-60	Metal.	PbO.	T .00067000000000	CI	1982	1982	N			See continuation page.
Sr-90	Metal.	PbO.	T .00000092000000	CI	1982	1982	N			See continuation page.
Tc-99	Metal.	PbO.	T .00000018000000	CI	1982	1982	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)

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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
I-129	Metal.	PbO.	T .00000000005000	CI	1982	1982	N			See continuation page.
Cs-137	Metal.	PbO.	T .00020000000000	CI	1982	1982	N			See continuation page.
Ce-144	Metal.	PbO.	T .00000470000000	CI	1982	1982	N			See continuation page.
Eu-154	Metal.	PbO.	T .00000000290000	CI	1982	1982	N			See continuation page.
Eu-155	Metal.	PbO.	T .00000940000000	CI	1982	1982	N			See continuation page.
U-234	Metal.	PbO.	T .00000000210000	CI	1982	1982	N			See continuation page.
U-235	Metal.	PbO.	T .00000000010000	CI	1982	1982	N			See continuation page.
U-236	Metal.	PbO.	T .00000000080000	CI	1982	1982	N			See continuation page.
Np-237	Metal.	PbO.	T .00000000130000	CI	1982	1982	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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) 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-238	Metal.	PbO.	T .00000005400000	CI	1982	1982	N			See continuation page.
Pu-239	Metal.	PbO.	T .00000005400000	CI	1982	1982	N			See continuation page.
Pu-240	Metal.	PbO.	T .00000000570000	CI	1982	1982	N			See continuation page.
Pu-241	Metal.	PbO.	T .00000590000000	CI	1982	1982	N			See continuation page.
Am-241	Metal.	PbO.	T .00000002700000	CI	1982	1982	N			See continuation page.
Cm-242	Metal.	PbO.	T .00000002700000	CI	1982	1982	N			See continuation page.
Cm-244	Metal.	PbO.	T .00000002500000	CI	1982	1982	N			See continuation page.
Co-60	Metal.	PbO.	T 89.480000000000	CI	1983	1983	N	-20%	+20%	See comment below.

* 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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error). Additional radionuclides (e.g. U-234, U-235, U-236, Pu-238, Pu-239, Pu-240, C-14) were identified and calibrated, but are not shown here as their activity was less than 1E-11 curies.

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

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

2. Details concerning source (names, report no., dates, etc.)

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.

8. Key assumptions used to deal with the unknowns:

Continuation of Part _____ Column or Question Number or Title _____

Because of the time spread, 1960-1983, 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 - 158

1. Preparer: Amaro, C.

2. Date prepared: 08/25/93

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

4. Particular facility: 604
(building number - use code from attached list)

5. Number of waste stream from this facility:
1H

6. Waste stream:
Uranium powder.

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

8. Actual years disposed of at SDA:
Starting year 1971 Ending year 1974

9. Waste stream volume:
Amount 5.0972 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 614.

1. General physical form (see attached list)

[X] other (specify)
UALX powder.

2. Details on physical form(particularly confinement related)
Uranium in powder form (UALX) or enriched U powder.
Pyrophoric.

3. Chemical form:
UALX and U.

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

5. Waste container type (see attached list)
Cardboard box.

6. Other characteristics of interest:
Pyrophoric.

7. Comments (specify number of pertinent question):

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
U-235	Powder.	UALX.	A .00008670000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-238	Powder.	UALX.	A .00000454000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-234	Powder.	UALX.	A .00037100000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-236	Powder.	UALX.	A .00000158000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-235	Powder.	U-235.	A .00000642000000	CI	1971	1971	N	-20%	+20%	See comment below.
U-235	Powder.	UALX.	A .00000812000000	CI	1972	1972	N	-20%	+20%	See comment below.
U-238	Powder.	UALX.	A .00001770000000	CI	1972	1972	N	-20%	+20%	See comment below.
U-235	Powder.	Enriched U.	A .00000408700000	CI	1972	1972	N	-20%	+20%	See comment below.
U-238	Powder.	Enriched U.	A .00000004995000	CI	1972	1972	N	-20%	+20%	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)

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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
U-235	Powder.	UALX.	A .00004460000000	CI	1973	1973	N	-20%	+20%	See continuation page.
U-238	Powder.	UALX.	A .00000024600000	CI	1973	1973	N	-20%	+20%	See continuation page.
U-235	Powder.	UALX.	A .00010900000000	CI	1973	1973	N	-20%	+20%	See continuation page.
U-238	Powder.	UALX.	A .00001100000000	CI	1973	1973	N	-20%	+20%	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)

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PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-604-1H

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

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

2. Details concerning source (names, report no., dates, etc.)

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)
[X] no
[ ] yes

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
None.

8. Key assumptions used to deal with the unknowns:
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 C Column or Question Number or Title Uncertainty basis.

For records indicated as qualified on this page:
The gram quantity total was probably weighted at TRA. The error was probably 20% but the preparer used a conservative estimate. Weights should be good to 10 lbs.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 149

1. Preparer: Amaro, C.

2. Date prepared: 08/25/93

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

4. Particular facility: 614
(building number - use code from attached list)

5. Number of waste stream from this facility:
1H

6. Waste stream:
Capsules of graphite Ni, and scrap U-235.

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

8. Actual years disposed of at SDA:
Starting year 1972 Ending year 1975

9. Waste stream volume:
Amount 0.3681 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):

1. General physical form (see attached list)

[X] other (specify)
Capsules.

2. Details on physical form(particularly confinement related)
Graphite Ni and U-235.

3. Chemical form:
NiC and U-235.

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

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

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. "Other", which 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
U-235	Capsule.	CNi.	A .00000860300000	CI	1972	1972	N	-20%	+20%	See comment below.
U-238	Capsule.	CNi.	A .00000000333000	CI	1972	1972	N	-20%	+20%	See comment below.
U-235	Capsule.	U-235.	A .00002782000000	CI	1975	1975	N	-20%	+20%	See comment below.
U-238	Capsule.	U-235.	A .00000016320000	CI	1975	1975	N	-20%	+20%	See comment below.

* 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)

The sample column is marked "N" because the preparer cannot prove a sample was counted by the Radiation Measurements Laboratory (RML) at TRA, but based on the RWMIS radionuclide identification, the preparer believes a sample was counted. A 5-10% error is normal for a sample analyzed by the RML, however, being conservative, the preparer assigned a 20% error (doubling the 10% error).

PART E - SOURCES OF INFORMATION AND UNCERTAINTIES - TRA-614-1H

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)
[X] no
[ ] yes

6. If yes, explain why:

7. Major unknowns in inventories of contaminants:
None identified.

8. Key assumptions used to deal with the unknowns:
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.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 194

1. Preparer: Amaro, C.

2. Date prepared: 09/01/93

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

4. Particular facility: 614
(building number - use code from attached list)

5. Number of waste stream from this facility:
2H

6. Waste stream:
Continuous air tank.

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

8. Actual years disposed of at SDA:
Starting year 1979 Ending year 1979

9. Waste stream volume:
Amount 5.0970 Units Cubic feet.
Check box: [ ] annual or [X] total over all years
Check box: [ ] container volume or [X] waste volume

10. Comments (specify number of pertinent question):

1. General physical form (see attached list)

[X] other (specify)
Continuous air tank.

2. Details on physical form(particularly confinement related)
Air tank.

3. Chemical form:
Metallic.

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

5. Waste container type (see attached list)
Other.

6. Other characteristics of interest:

7. Comments (specify number of pertinent question):
5. "Other" is the tank itself.

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	Solid.	Metallic.	T .00233500000000	CI	1979	1979	N			See comment below.
C-14	Solid.	Metallic.	T .00031330000000	CI	1979	1979	N			See comment below.
Fe-55	Solid.	Metallic.	T .05411000000000	CI	1979	1979	N			See comment below.
Ni-59	Solid.	Metallic.	T .00001623000000	CI	1979	1979	N			See comment below.
Ni-63	Solid.	Metallic.	T .00911400000000	CI	1979	1979	N			See comment below.
Co-60	Solid.	Metallic.	T .01908000000000	CI	1979	1979	N			See comment below.
Sr-90	Solid.	Metallic.	T .00002620000000	CI	1979	1979	N			See comment below.
Tc-99	Solid.	Metallic.	T .00000512700000	CI	1979	1979	N			See comment below.
I-129	Solid.	Metallic.	T .00001481000000	CI	1979	1979	N			See comment below.

* 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)

The waste was probably analyzed but the preparer cannot prove it, therefore, the sample column is marked "N". A Geiger-Mueller counter or a portable NaI detector were probably used. The preparer's belief is that the activity is too low by a factor of 2.

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	Solid.	Metallic.	T .00569600000000	CI	1979	1979	N			See comment below.
Ce-144	Solid.	Metallic.	T .00013390000000	CI	1979	1979	N			See comment below.
Eu-154	Solid.	Metallic.	T .00000008260000	CI	1979	1979	N			See comment below.
Eu-155	Solid.	Metallic.	T .00026770000000	CI	1979	1979	N			See comment below.
U-234	Solid.	Metallic.	T .00000005980000	CI	1979	1979	N			See comment below.
U-235	Solid.	Metallic.	T .00000000130000	CI	1979	1979	N			See comment below.
U-236	Solid.	Metallic.	T .00000002280000	CI	1979	1979	N			See comment below.
Np-237	Solid.	Metallic.	T .00000003700000	CI	1979	1979	N			See comment below.
Pu-238	Solid.	Metallic.	T .00000153800000	CI	1979	1979	N			See comment below.

* 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)

The waste was probably analyzed but the preparer cannot prove it, therefore, the sample column is marked "N". A Geiger-Mueller counter or a portable NaI detector were probably used. The preparer's belief is that the activity is too low by a factor of 2.

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
Pu-239	Solid.	Metallic.	T .00000153800000	CI	1979	1979	N			See comment below.
Pu-240	Solid.	Metallic.	T .00000016230000	CI	1979	1979	N			See comment below.
Pu-241	Solid.	Metallic.	T .00016800000000	CI	1979	1979	N			See comment below.
Am-241	Solid.	Metallic.	T .00000076900000	CI	1979	1979	N			See comment below.
Cm-242	Solid.	Metallic.	T .00000076900000	CI	1979	1979	N			See comment below.
Cm-244	Solid.	Metallic.	T .00000071200000	CI	1979	1979	N			See comment below.

* 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)

The waste was probably analyzed but the preparer cannot prove it, therefore, the sample column is marked "N". A Geiger-Mueller counter or a portable NaI detector were probably used. The preparer's belief is that the activity is too low by a factor of 2.

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

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

2. Details concerning source (names, report no., dates, etc.)

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 _____ Column or Question Number or Title _____

Because of the configuration of this item, the analysis method is questionable. The radionuclide content may have been determined using smears or a Geiger-Mueller counter. The true uncertainty is not known.

DATA INPUT FOR HISTORICAL DATA TASK FOR RWMC SUBSURFACE DISPOSAL AREA

PART A - GENERAL INFORMATION HDT - 205

1. Preparer: Nieschmidt, Ernest

2. Date prepared: 08/30/93

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

4. Particular facility: 632
(building number - use code from attached list)

5. Number of waste stream from this facility:
1H

6. Waste stream:
Core structural pieces.

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

8. Actual years disposed of at SDA:
Starting year 1962 Ending year 1983

9. Waste stream volume:
Amount 60.7100 Units Cubic meters.
Check box: [ ] annual or [X] total over all years
Check box: [ ] container volume or [X] waste volume

10. Comments (specify number of pertinent question):

1. General physical form (see attached list)
Other core,reactor vessel,loop component
[ ] other (specify)

2. Details on physical form(particularly confinement related)
Scrap metal pieces from core.

3. Chemical form:
Metals.

4. Inner packaging: [ ] plastic bag [X] 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):

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	Solid.	H.	A .00577100000000	CI	1962	1962	N			
C-14	Solid.	H.	A .00077420000000	CI	1962	1962	N			
Fe-55	Solid.	H.	A .13370000000000	CI	1962	1962	N			
Ni-59	Solid.	H.	A .00004012000000	CI	1962	1962	N			
Ni-63	Solid.	H.	A .02252000000000	CI	1962	1962	N			
Co-60	Solid.	H.	A .04716000000000	CI	1962	1962	N			
Sr-90	Solid.	H.	A .00006475000000	CI	1962	1962	N			
Tc-99	Solid.	H.	A .00001267000000	CI	1962	1962	N			
I-129	Solid.	H.	A .00000000329000	CI	1962	1962	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .01408000000000	CI	1962	1962	N			
Ce-144	Solid.	H.	A .00033080000000	CI	1962	1962	N			
Eu-154	Solid.	H.	A .00000020410000	CI	1962	1962	N			
Eu-155	Solid.	H.	A .00066160000000	CI	1962	1962	N			
U-234	Solid.	H.	A .00000014780000	CI	1962	1962	N			
U-235	Solid.	H.	A .00000000320000	CI	1962	1962	N			
U-236	Solid.	H.	A .00000005630000	CI	1962	1962	N			
Np-237	Solid.	H.	A .00000009150000	CI	1962	1962	N			
Pu-238	Solid.	H.	A .00000380100000	CI	1962	1962	N			

* 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)
H signifies hydrogen absorbed in metal.

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
Pu-239	Solid.	H.	A .00000380100000	CI	1962	1962	N			
Pu-240	Solid.	H.	A .00000040120000	CI	1962	1962	N			
Pu-241	Solid.	H.	A .00041530000000	CI	1962	1962	N			
Am-241	Solid.	H.	A .00000190000000	CI	1962	1962	N			
Cm-242	Solid.	H.	A .00000190000000	CI	1962	1962	N			
Cm-244	Solid.	H.	A .00000176000000	CI	1962	1962	N			
H-3	Solid.	H.	A 257.80000000000	CI	1964	1964	N			
C-14	Solid.	H.	A 34.580000000000	CI	1964	1964	N			
Fe-55	Solid.	H.	A 5972.0000000000	CI	1964	1964	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A 1.7920000000000	CI	1964	1964	N			
Ni-63	Solid.	H.	A 1006.0000000000	CI	1964	1964	N			
Co-60	Solid.	H.	A 2106.0000000000	CI	1964	1964	N			
Sr-90	Solid.	H.	A 2.8920000000000	CI	1964	1964	N			
Tc-99	Solid.	H.	A .56580000000000	CI	1964	1964	N			
I-129	Solid.	H.	A .00014715000000	CI	1964	1964	N			
Cs-137	Solid.	H.	A 628.70000000000	CI	1964	1964	N			
Ce-144	Solid.	H.	A 14.770000000000	CI	1964	1964	N			
Eu-154	Solid.	H.	A .00911600000000	CI	1964	1964	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A 29.550000000000	CI	1964	1964	N			
U-234	Solid.	H.	A .00660100000000	CI	1964	1964	N			
U-235	Solid.	H.	A .00014150000000	CI	1964	1964	N			
U-236	Solid.	H.	A .00251500000000	CI	1964	1964	N			
Np-237	Solid.	H.	A .00408600000000	CI	1964	1964	N			
Pu-238	Solid.	H.	A .16970000000000	CI	1964	1964	N			
Pu-239	Solid.	H.	A .16970000000000	CI	1964	1964	N			
Pu-240	Solid.	H.	A .01792000000000	CI	1964	1964	N			
Pu-241	Solid.	H.	A 18.550000000000	CI	1964	1964	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .08487000000000	CI	1964	1964	N			
Cm-242	Solid.	H.	A .08487000000000	CI	1964	1964	N			
Cm-244	Solid.	H.	A .07858000000000	CI	1964	1964	N			
H-3	Solid.	H.	A 4.2870000000000	CI	1966	1966	N			
C-14	Solid.	H.	A .57510000000000	CI	1966	1966	N			
Fe-55	Solid.	H.	A 99.340000000000	CI	1966	1966	N			
Ni-59	Solid.	H.	A .02980000000000	CI	1966	1966	N			
Ni-63	Solid.	H.	A 16.730000000000	CI	1966	1966	N			
Co-60	Solid.	H.	A 35.030000000000	CI	1966	1966	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .04810000000000	CI	1966	1966	N			
Tc-99	Solid.	H.	A .00941100000000	CI	1966	1966	N			
I-129	Solid.	H.	A .00000244710000	CI	1966	1966	N			
Cs-137	Solid.	H.	A 10.460000000000	CI	1966	1966	N			
Ce-144	Solid.	H.	A .24570000000000	CI	1966	1966	N			
Eu-154	Solid.	H.	A .00015160000000	CI	1966	1966	N			
Eu-155	Solid.	H.	A .49150000000000	CI	1966	1966	N			
U-234	Solid.	H.	A .00010980000000	CI	1966	1966	N			
U-235	Solid.	H.	A .00000235300000	CI	1966	1966	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .00004183000000	CI	1966	1966	N			
Np-237	Solid.	H.	A .00006797000000	CI	1966	1966	N			
Pu-238	Solid.	H.	A .00282300000000	CI	1966	1966	N			
Pu-239	Solid.	H.	A .00282300000000	CI	1966	1966	N			
Pu-240	Solid.	H.	A .00029800000000	CI	1966	1966	N			
Pu-241	Solid.	H.	A .30850000000000	CI	1966	1966	N			
Am-241	Solid.	H.	A .00141200000000	CI	1966	1966	N			
Cm-242	Solid.	H.	A .00141200000000	CI	1966	1966	N			
Cm-244	Solid.	H.	A .00130700000000	CI	1966	1966	N			

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If not, mark N and give the minimum value and maximum value.
Additional information or explanations (indicate pertinent contaminant)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .20660000000000	CI	1969	1969	N			
C-14	Solid.	H.	A .02772000000000	CI	1969	1969	N			
Fe-55	Solid.	H.	A 4.7880000000000	CI	1969	1969	N			
Ni-59	Solid.	H.	A .00143600000000	CI	1969	1969	N			
Ni-63	Solid.	H.	A .80640000000000	CI	1969	1969	N			
Co-60	Solid.	H.	A 1.6880000000000	CI	1969	1969	N			
Sr-90	Solid.	H.	A .00231800000000	CI	1969	1969	N			
Tc-99	Solid.	H.	A .00045360000000	CI	1969	1969	N			
I-129	Solid.	H.	A .00000011790000	CI	1969	1969	N			

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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	Solid.	H.	A .50400000000000	CI	1969	1969	N			
Ce-144	Solid.	H.	A .01184000000000	CI	1969	1969	N			
Eu-154	Solid.	H.	A .00000730800000	CI	1969	1969	N			
Eu-155	Solid.	H.	A .02369000000000	CI	1969	1969	N			
U-234	Solid.	H.	A .00000529200000	CI	1969	1969	N			
U-235	Solid.	H.	A .00000011340000	CI	1969	1969	N			
U-236	Solid.	H.	A .00000201600000	CI	1969	1969	N			
Np-237	Solid.	H.	A .00000327600000	CI	1969	1969	N			
Pu-238	Solid.	H.	A .00013610000000	CI	1969	1969	N			

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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	Solid.	H.	A .00013610000000	CI	1969	1969	N			
Pu-240	Solid.	H.	A .00001436000000	CI	1969	1969	N			
Pu-241	Solid.	H.	A .01487000000000	CI	1969	1969	N			
Am-241	Solid.	H.	A .00006804000000	CI	1969	1969	N			
Cm-242	Solid.	H.	A .00006804000000	CI	1969	1969	N			
Cm-244	Solid.	H.	A .00006300000000	CI	1969	1969	N			
H-3	Solid.	H.	A 4.0920000000000	CI	1970	1970	N			
C-14	Solid.	H.	A .54890000000000	CI	1970	1970	N			
Fe-55	Solid.	H.	A 94.810000000000	CI	1970	1970	N			

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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	Solid.	H.	A .02844000000000	CI	1970	1970	N			
Ni-63	Solid.	H.	A 15.970000000000	CI	1970	1970	N			
Co-60	Solid.	H.	A 33.430000000000	CI	1970	1970	N			
Sr-90	Solid.	H.	A .04591000000000	CI	1970	1970	N			
Tc-99	Solid.	H.	A .00898200000000	CI	1970	1970	N			
I-129	Solid.	H.	A .00000233550000	CI	1970	1970	N			
Cs-137	Solid.	H.	A 9.9800000000000	CI	1970	1970	N			
Ce-144	Solid.	H.	A .23450000000000	CI	1970	1970	N			
Eu-154	Solid.	H.	A .00014470000000	CI	1970	1970	N			

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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	Solid.	H.	A .46910000000000	CI	1970	1970	N			
U-234	Solid.	H.	A .00010480000000	CI	1970	1970	N			
U-235	Solid.	H.	A .00000224600000	CI	1970	1970	N			
U-236	Solid.	H.	A .00003992000000	CI	1970	1970	N			
Np-237	Solid.	H.	A .00006487000000	CI	1970	1970	N			
Pu-238	Solid.	H.	A .00269500000000	CI	1970	1970	N			
Pu-239	Solid.	H.	A .00269500000000	CI	1970	1970	N			
Pu-240	Solid.	H.	A .00028440000000	CI	1970	1970	N			
Pu-241	Solid.	H.	A .29440000000000	CI	1970	1970	N			

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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	Solid.	H.	A .00134700000000	CI	1970	1970	N			
Cm-242	Solid.	H.	A .00134700000000	CI	1970	1970	N			
Cm-244	Solid.	H.	A .00124800000000	CI	1970	1970	N			
H-3	Solid.	H.	A 3417.0000000000	CI	1972	1972	N			
C-14	Solid.	H.	A 458.40000000000	CI	1972	1972	N			
Fe-55	Solid.	H.	A 79180.000000000	CI	1972	1972	N			
Ni-59	Solid.	H.	A 23.750000000000	CI	1972	1972	N			
Ni-63	Solid.	H.	A 13340.000000000	CI	1972	1972	N			
Co-60	Solid.	H.	A 27920.000000000	CI	1972	1972	N			

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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	Solid.	H.	A 38.340000000000	CI	1972	1972	N			
Tc-99	Solid.	H.	A 7.5020000000000	CI	1972	1972	N			
I-129	Solid.	H.	A .00195030000000	CI	1972	1972	N			
Cs-137	Solid.	H.	A 8335.0000000000	CI	1972	1972	N			
Ce-144	Solid.	H.	A 195.90000000000	CI	1972	1972	N			
Eu-154	Solid.	H.	A .12090000000000	CI	1972	1972	N			
Eu-155	Solid.	H.	A 391.70000000000	CI	1972	1972	N			
U-234	Solid.	H.	A .08752000000000	CI	1972	1972	N			
U-235	Solid.	H.	A .00187500000000	CI	1972	1972	N			

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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
U-236	Solid.	H.	A .03334000000000	CI	1972	1972	N			
Np-237	Solid.	H.	A .05418000000000	CI	1972	1972	N			
Pu-238	Solid.	H.	A 2.2500000000000	CI	1972	1972	N			
Pu-239	Solid.	H.	A 2.2500000000000	CI	1972	1972	N			
Pu-240	Solid.	H.	A .23750000000000	CI	1972	1972	N			
Pu-241	Solid.	H.	A 245.90000000000	CI	1972	1972	N			
Am-241	Solid.	H.	A 1.1250000000000	CI	1972	1972	N			
Cm-242	Solid.	H.	A 1.1250000000000	CI	1972	1972	N			
Cm-244	Solid.	H.	A 1.0420000000000	CI	1972	1972	N			

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H-3	Solid.	H.	A 98.770000000000	CI	1973	1973	N			
C-14	Solid.	H.	A 13.250000000000	CI	1973	1973	N			
Fe-55	Solid.	H.	A 2289.0000000000	CI	1973	1973	N			
Ni-59	Solid.	H.	A .68660000000000	CI	1973	1973	N			
Ni-63	Solid.	H.	A 385.50000000000	CI	1973	1973	N			
Co-60	Solid.	H.	A 807.10000000000	CI	1973	1973	N			
Sr-90	Solid.	H.	A 1.1080000000000	CI	1973	1973	N			
Tc-99	Solid.	H.	A .21680000000000	CI	1973	1973	N			
I-129	Solid.	H.	A .00005637600000	CI	1973	1973	N			

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Cs-137	Solid.	H.	A 240.90000000000	CI	1973	1973	N			
Ce-144	Solid.	H.	A 5.6610000000000	CI	1973	1973	N			
Eu-154	Solid.	H.	A .00349300000000	CI	1973	1973	N			
Eu-155	Solid.	H.	A 11.320000000000	CI	1973	1973	N			
U-234	Solid.	H.	A .00253000000000	CI	1973	1973	N			
U-235	Solid.	H.	A .00005421000000	CI	1973	1973	N			
U-236	Solid.	H.	A .00096360000000	CI	1973	1973	N			
Np-237	Solid.	H.	A .00156600000000	CI	1973	1973	N			
Pu-238	Solid.	H.	A .06505000000000	CI	1973	1973	N			

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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	Solid.	H.	A .06505000000000	CI	1973	1973	N			
Pu-240	Solid.	H.	A .00686600000000	CI	1973	1973	N			
Pu-241	Solid.	H.	A 7.1070000000000	CI	1973	1973	N			
Am-241	Solid.	H.	A .03252000000000	CI	1973	1973	N			
Cm-242	Solid.	H.	A .03252000000000	CI	1973	1973	N			
Cm-244	Solid.	H.	A .03011000000000	CI	1973	1973	N			
H-3	Solid.	H.	A 42.450000000000	CI	1978	1978	N			
C-14	Solid.	H.	A 5.6940000000000	CI	1978	1978	N			
Fe-55	Solid.	H.	A 983.50000000000	CI	1978	1978	N			

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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
Ni-59	Solid.	H.	A .29510000000000	CI	1978	1978	N			
Ni-63	Solid.	H.	A 165.60000000000	CI	1978	1978	N			
Co-60	Solid.	H.	A 346.80000000000	CI	1978	1978	N			
Sr-90	Solid.	H.	A .47620000000000	CI	1978	1978	N			
Tc-99	Solid.	H.	A .09318000000000	CI	1978	1978	N			
I-129	Solid.	H.	A .00002422800000	CI	1978	1978	N			
Cs-137	Solid.	H.	A 103.50000000000	CI	1978	1978	N			
Ce-144	Solid.	H.	A 2.4330000000000	CI	1978	1978	N			
Eu-154	Solid.	H.	A .00150100000000	CI	1978	1978	N			

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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	Solid.	H.	A 4.8660000000000	CI	1978	1978	N			
U-234	Solid.	H.	A .00108700000000	CI	1978	1978	N			
U-235	Solid.	H.	A .00002329000000	CI	1978	1978	N			
U-236	Solid.	H.	A .00041410000000	CI	1978	1978	N			
Np-237	Solid.	H.	A .00067290000000	CI	1978	1978	N			
Pu-238	Solid.	H.	A .02795000000000	CI	1978	1978	N			
Pu-239	Solid.	H.	A .02795000000000	CI	1978	1978	N			
Pu-240	Solid.	H.	A .00295100000000	CI	1978	1978	N			
Pu-241	Solid.	H.	A 3.0540000000000	CI	1978	1978	N			

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Am-241	Solid.	H.	A .01398000000000	CI	1978	1978	N			
Cm-242	Solid.	H.	A .01398000000000	CI	1978	1978	N			
Cm-244	Solid.	H.	A .01294000000000	CI	1978	1978	N			
H-3	Solid.	H.	A 2.4730000000000	CI	1979	1979	N			
C-14	Solid.	H.	A .33180000000000	CI	1979	1979	N			
Fe-55	Solid.	H.	A 57.310000000000	CI	1979	1979	N			
Ni-59	Solid.	H.	A .01719000000000	CI	1979	1979	N			
Ni-63	Solid.	H.	A 9.6530000000000	CI	1979	1979	N			
Co-60	Solid.	H.	A 20.210000000000	CI	1979	1979	N			

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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	Solid.	H.	A .02775000000000	CI	1979	1979	N			
Tc-99	Solid.	H.	A .00543000000000	CI	1979	1979	N			
I-129	Solid.	H.	A .00000141210000	CI	1979	1979	N			
Cs-137	Solid.	H.	A 6.0330000000000	CI	1979	1979	N			
Ce-144	Solid.	H.	A .14180000000000	CI	1979	1979	N			
Eu-154	Solid.	H.	A .00008748000000	CI	1979	1979	N			
Eu-155	Solid.	H.	A .28350000000000	CI	1979	1979	N			
U-234	Solid.	H.	A .00006335000000	CI	1979	1979	N			
U-235	Solid.	H.	A .00000135700000	CI	1979	1979	N			

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U-236	Solid.	H.	A .00002413000000	CI	1979	1979	N			
Np-237	Solid.	H.	A .00003921000000	CI	1979	1979	N			
Pu-238	Solid.	H.	A .00162900000000	CI	1979	1979	N			
Pu-239	Solid.	H.	A .00162900000000	CI	1979	1979	N			
Pu-240	Solid.	H.	A .00017190000000	CI	1979	1979	N			
Pu-241	Solid.	H.	A .17800000000000	CI	1979	1979	N			
Am-241	Solid.	H.	A .00081440000000	CI	1979	1979	N			
Cm-242	Solid.	H.	A .00081440000000	CI	1979	1979	N			
Cm-244	Solid.	H.	A .00075410000000	CI	1979	1979	N			

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H-3	Solid.	H.	A 485.30000000000	CI	1981	1981	N			
C-14	Solid.	H.	A 65.100000000000	CI	1981	1981	N			
Fe-55	Solid.	H.	A 11240.000000000	CI	1981	1981	N			
Ni-59	Solid.	H.	A 3.3730000000000	CI	1981	1981	N			
Ni-63	Solid.	H.	A 1894.0000000000	CI	1981	1981	N			
Co-60	Solid.	H.	A 3965.0000000000	CI	1981	1981	N			
Sr-90	Solid.	H.	A 5.4450000000000	CI	1981	1981	N			
Tc-99	Solid.	H.	A 1.0650000000000	CI	1981	1981	N			
I-129	Solid.	H.	A .00027693000000	CI	1981	1981	N			

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Cs-137	Solid.	H.	A 1184.0000000000	CI	1981	1981	N			
Ce-144	Solid.	H.	A 27.820000000000	CI	1981	1981	N			
Eu-154	Solid.	H.	A .01716000000000	CI	1981	1981	N			
Eu-155	Solid.	H.	A 55.630000000000	CI	1981	1981	N			
U-234	Solid.	H.	A .01243000000000	CI	1981	1981	N			
U-235	Solid.	H.	A .00026630000000	CI	1981	1981	N			
U-236	Solid.	H.	A .00473500000000	CI	1981	1981	N			
Np-237	Solid.	H.	A .00769400000000	CI	1981	1981	N			
Pu-238	Solid.	H.	A .31960000000000	CI	1981	1981	N			

* 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)
H signifies hydrogen absorbed in metal.

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
Pu-239	Solid.	H.	A .31960000000000	CI	1981	1981	N			
Pu-240	Solid.	H.	A .03373000000000	CI	1981	1981	N			
Pu-241	Solid.	H.	A 34.920000000000	CI	1981	1981	N			
Am-241	Solid.	H.	A .15980000000000	CI	1981	1981	N			
Cm-242	Solid.	H.	A .15980000000000	CI	1981	1981	N			
Cm-244	Solid.	H.	A .14800000000000	CI	1981	1981	N			
H-3	Solid.	H.	A .98940000000000	CI	1983	1983	N			
C-14	Solid.	H.	A .13270000000000	CI	1983	1983	N			
Fe-55	Solid.	H.	A 22.920000000000	CI	1983	1983	N			

* 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)
H signifies hydrogen absorbed in metal.

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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	Solid.	H.	A .00687700000000	CI	1983	1983	N			
Ni-63	Solid.	H.	A 3.8610000000000	CI	1983	1983	N			
Co-60	Solid.	H.	A 8.0840000000000	CI	1983	1983	N			
Sr-90	Solid.	H.	A .01110000000000	CI	1983	1983	N			
Tc-99	Solid.	H.	A .00217200000000	CI	1983	1983	N			
I-129	Solid.	H.	A .00000056466000	CI	1983	1983	N			
Cs-137	Solid.	H.	A 2.4130000000000	CI	1983	1983	N			
Ce-144	Solid.	H.	A .05671000000000	CI	1983	1983	N			
Eu-154	Solid.	H.	A .00003499000000	CI	1983	1983	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .11340000000000	CI	1983	1983	N			
U-234	Solid.	H.	A .00002534000000	CI	1983	1983	N			
U-235	Solid.	H.	A .00000054300000	CI	1983	1983	N			
U-236	Solid.	H.	A .00000965300000	CI	1983	1983	N			
Np-237	Solid.	H.	A .00001569000000	CI	1983	1983	N			
Pu-238	Solid.	H.	A .00065150000000	CI	1983	1983	N			
Pu-239	Solid.	H.	A .00065150000000	CI	1983	1983	N			
Pu-240	Solid.	H.	A .00006877000000	CI	1983	1983	N			
Pu-241	Solid.	H.	A .07119000000000	CI	1983	1983	N			

* 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)
H signifies hydrogen absorbed in metal.

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	Solid.	H.	A .00032580000000	CI	1983	1983	N			
Cm-242	Solid.	H.	A .00032580000000	CI	1983	1983	N			•
Cm-244	Solid.	H.	A .00030160000000	CI	1983	1983	N			

* 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)
H signifies hydrogen absorbed in metal.

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

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

2. Details concerning source (names, report no., dates, etc.)

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:
Method of measurement.

8. Key assumptions used to deal with the unknowns: